

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET145 ANATOMY PREPARATIONS PREPARATION TECHNIQUES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET145	ANATOMY PREPARATIONS PREPARATION TECHNIQUES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seğmeli

Goals:

The aim of this course is to teach anatomical specimen preparation methods and to enable students to gain fundamental knowledge and practical skills related to the preservation, exhibition, and educational use of anatomical structures.

Teaching Methods and Techniques:

This course covers the fundamental methods used in anatomical specimen preparation, including dissection techniques, fixation, conservation, plastination, skeletal preparation, and modeling applications. In addition, preparation and preservation of specimens within the framework of ethical principles and laboratory safety are examined.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Fatma İŞBİLİR

Instructors:

Associate Prof.Dr. Fatma İŞBİLİR Associate Prof.Dr. Barış Can GÜZEL

Assistants:

Research Assist. Muhammed Zahid ATLI

Recommended Sources	
Textbook	: Bancroft, J. D., & Gamble, M. (2008). Theory and Practice of Histological Techniques (6th ed.). Churchill Livingstone.
Resources	: Kiernan, J. A. (2015). Histological and Histochemical Methods (5th ed.). Scion Publishing.
Documents	: von Hagens, G. (2002). Plastination: A Tool for Teaching and Research.
Assignments	: Dyce, K. M., Sack, W. O., & Wensing, C. J. G. (2017). Textbook of Veterinary Anatomy (5th ed.). Elsevier.
Exams	: Rohen, J. W., Yokochi, C., & Lütjen-Drecoll, E. (2011). Color Atlas of Anatomy (7th ed.). Lippincott Williams & Wilkins. Rohen, J. W., Yokochi, C., & Lütjen-Drecoll, E. (2011). Color Atlas of Anatomy (7th ed.). Lippincott Williams & Wilkins.

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 100
Social Sciences	: 0	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to the course, basic concepts, ethics, and biosafety		
2	Fixation methods and chemicals (e.g., formalin)		
3	Preparation of soft tissue specimens		
4	Bone specimens and maceration techniques		
5	Skeleton preparation and assembly techniques		
6	Staining techniques (Alizarin Red, Alcian Blue, etc.)		
7	Injection techniques (vascular and duct systems)		
8	midterm exam		
9	Corrosion casting methods		
10	Introduction to plastination techniques		
11	Embedding, sectioning, and microtomy		
12	Histological staining techniques		
13	Storage, labeling, and display of specimens		
14	General review, practical evaluation, and project presentations		
15	General review and practical evaluations		
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the fundamental methods and equipment used in anatomical specimen preparation.
C02	Explains the principles of dissection, fixation, and conservation techniques.
C03	Applies appropriate laboratory techniques during the anatomical specimen preparation process.
C04	Prepares skeletal, organ, and system specimens in accordance with scientific methods.
C05	Contains the preservation, exhibition, and educational use of anatomical specimens.
C06	Acts in accordance with ethical principles and laboratory safety rules during specimen preparation practices.
C07	Expresses anatomical specimen preparation processes verbally and in writing using scientific terminology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET109 ANATOMY-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET109	ANATOMY-I	7	5	7

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to teach the anatomical structures, organ systems, and basic anatomical terminology of domestic animals and to enable students to gain fundamental anatomical knowledge and skills to be used in veterinary medical practice.

Teaching Methods and Techniques:

This course covers introduction to anatomy, anatomical terminology, cells and tissues, skeletal system, joints, muscular system, and the anatomical structures of basic organ systems. In addition, interspecies anatomical differences and clinically important anatomical structures are examined.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Fatma İŞBİLİR

Instructors:

Associate Prof.Dr. Fatma İŞBİLİR Associate Prof. Dr. Barış Can GÜZEL

Assistants:

Research Assist. Muhammed Zahid ATLI

Recommended Sources	
Textbook	: Dursun, N. (2010). Veteriner anatomi I.
Resources	:
Documents	: Dursun, N. (2010). Veteriner anatomi III.
Assignments	:
Exams	: Özgüden, T., & Bahadır, A. (2010). Veteriner anatomi: Hareket sistemi.

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 100
Social Sciences	: 0	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to Anatomy and General Osteologia		
2	Appendicular skeleton		
3	Bones of the pelvic limbs: Pelvic bone and diameters of pelvic, Thigh Bones of crus, Tarsal bones, Bones of digitorum pedi		
4	Vertebral column: Cervical vertebrae, Thoracic vertebrae, Lumbar and sacral vertebrae. -Rib, Sternum		
5	Cranial bones: Occipital, interparietal, sphenoidal, pterygoid, temporal, parietal, frontal, ethmoidal and vomer bones		
6	-Facial bones: Nasal, lacrimal, maxillar, incisv, palatine and zygomatic bones -Mandible, Hyoid bone		
7	Structure and properties of joints, jaw joint, joints of the vertebral column, joints of the thorax,		
8	MID EXAM		
9	-Joints of the thoracic limb, shoulder joint, elbow joint, joints of the manus.-Joints of the pelvic limb, sacroiliac joint, hip joi		
10	-Accessory organs of muscle: Skeleton muscles, skin muscles		
11	-Muscles of head, muscles of neck, hyoid muscles, fascia.		
12	-Dorsal muscles, thoracic muscles, diaphragm, abdominal muscles		
13	Muscles of the thoracic limb, muscles of the pelvic limb.Synovial bursae, tendon sheaths		
14	-Nares, nasal, rostral and nasolabial planes, nasal cavity.		
15	-Cartilage of larynx, cavity of larynx, glottis, trachea, lungs, -Pleura mediastine		
16	Final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the fundamental concepts, anatomical terminology, and organizational structure of veterinary anatomy.
C02	Explains the characteristics of anatomical structures related to the skeletal, articular, and muscular systems.
C03	Distinguishes and compares anatomical structures of basic organ systems.
C04	Applies anatomical knowledge in laboratory practices and dissection studies.
C05	Analyzes interspecies anatomical differences and evaluates them clinically.
C06	Acts in accordance with ethical principles and laboratory safety rules in anatomy practices.
C07	Expresses knowledge related to veterinary anatomy verbally and in writing using scientific terminology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	5	70
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	16	16
Practice	14	3	42
Laboratory	0	0	0
Project	0	0	0
Final examination	1	16	16
Total Work Load			200
ECTS Credit of the Course			7

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	4	4	5	5	4	4	5	5	4	4	3	5	4	5	3	3
C01	5	5	4	5	3	5	4	5	3	5	4	5	3	5	4	5	3	5	4
C02	5	3	5	5	3	3	3	3	5	5	5	4	4	5	5	4	3	3	3
C03	3	5	5	4	4	4	4	4	5	5	5	5	5	5	3	3	3	3	5
C04	5	4	4	4	4	5	5	5	3	3	5	5	5	4	3	4	4	4	4
C05	3	5	5	4	5	4	5	4	3	5	4	5	3	5	4	5	3	5	4
C06	5	3	5	4	5	3	5	4	5	3	5	4	4	5	3	5	3	5	4
C07	4	4	4	5	5	5	3	3	3	5	5	5	4	4	4	4	5	3	3

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

ATA101 PRINCIPLES OF ATATÜRK AND TURKISH REVOLUTION HISTORY I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	ATA101	PRINCIPLES OF ATATÜRK AND TURKISH REVOLUTION HISTORY I	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

Informing students about the political, economic, social and cultural phenomena of the historical period that ended with the signing of the Treaty of Lausanne in 1923 and the background of these phenomena extending to the Ottoman state - To enable students to look at historical events from a multi-faceted perspective - around an interdisciplinary approach, To introduce the basic theoretical concepts, discussions and methods of thought of different Social Sciences, especially history.

Teaching Methods and Techniques:

The main political, economic, social and cultural phenomena of the historical period starting from the classical age of the Ottoman Empire and ending with the signing of the Treaty of Lausanne in 1923, and basic academic comments on them.

Prerequisites:

Course Coordinator:

Associate Prof. Abdurrahman DEMİR

Instructors:

Assistants:

Recommended Sources	
Textbook	: -
Resources	: a
Documents	: -
Assignments	: -
Exams	: -

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	: 50	Field	: 50

Course Content			
Week	Topics	Study Materials	Materials
1	XX. outline of the century's history	Eric Hobsbawm, "A Bird's Eye View of th	
2	Political Life 1923-1945	Cemil Koçak, "Political History: 1923-195	
3	The formation of Atatürk's principles and republican ideology	Serif Mardin, "The Origins of Atatürkism"	
4	Social and cultural transformation between 1923-1950	Seçil Deren, "Cultural Westernization", P	
5	Economy in Turkey between 1923-1945	Korkut Boratav, "Statism in Turkey", in T	
6	Foreign policy in Turkey between 1923-1950	Ahmet Mumcu, "Foreign Policy of the Re	
7	1945-1950: Transition to multi-party political life in Turkey	Eric Jan Zürcher, "Transition to Democr	
8	VİSA		
9	Democratic Party government between 1950-1960: Political Developments	Eric Jan Zürcher, "Democratic Party Pow	
10	Politics in Turkey from 1960 to 1980	Eric Jan Zürcher, "The Second Turkish R	
11	1980 coup and the rise of neo-liberalism	Tulay Ann, "The Myth of the Free Marke	
12	Gender Policies in Turkey	Fatmagül Berktaş, "The Status of Femi	
13	General Discussion and Evaluation	Mümtaz Soysal and Fazıl Sağlam, "Const	
14	FINAL EXAM		

Course Learning Outcomes	
No	Learning Outcomes
C01	Students will learn about the meaning and utility of historical studies.
C02	Students will learn about the meaning and utility of historical studies.
C03	Students will be able to see the modernization process in European history and compare it with Ottoman history.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows; located in the assessment and perform applications
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P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
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P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
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P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

	P01	P02	P03	P04	P05	P06	P07	P08
All	4	4	4	4	4	4	4	4
C01	4	4	4	4	4	4	4	4
C02	4	4	4	4	4	4	4	4
C03	4	4	4	4	4	4	4	

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET131 PHYSICAL EDUCATION-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET131	PHYSICAL EDUCATION-I	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

INTRODUCED AND is acknowledges himself. Will develop their skills, MISSING AND POWER STEERING recognizes. AGAINST THE BODY AND HEALTH awareness of the, AGAINST THE BODY AND HEALTH awareness of the, USING AN EFFECTIVE BİCİMDE the organism to learn. HEALTHY AND HAPPY LIFE FOR KNOWLEDGE, SKILLS AND PERSONAL, SOCIAL BEHAVIOR will WIN

Teaching Methods and Techniques:

EVALUATION OF EXAMINATION

Prerequisites:

Course Coordinator:

Instructors:

Associate Prof.Dr. Serdar ADIGÜZEL

Assistants:

Recommended Sources	
Textbook	: 1.Physical Education in Schools (Hikmet ARICI) in 1999.
Resources	: 2.Fundamental Principles of Physical Education and Sports (Yrd.Doç.Dr.Faruk Yamaner) 2001
Documents	:
Assignments	: PEHLİVAN, H. (2005). Oyun ve Öğrenme. Anı Yayıncılık: Ankara.
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 100

Course Content		
Week	Topics	Materials
1	Game Type: Football, Volleyball, Basketball, Handball overview	1.Physical Education in Schools (Hikmet
2	The game rules and techniques of soccer games	1.Physical Education in Schools (Hikmet
3	Basic techniques and rules of the game of volleyball	
4	Basketball \ 's the basic techniques and rules of the game.	3. 1997 Basketball Technical-Tactical-Tr.
5	Basic techniques and rules of the game of handball games	2. Beden eğitimi ve spord
6	And types of educational games, educational games applications.	3. Atletizm (Mustafa İşler
7	The characteristics of Turkish folk dances, and stories vary by location	
8	And types of educational games, educational games applications.	
9	MID-TERM EXAM	
10	Movement and rhythmic gymnastics	
11	Order exercises (command, walking, stops, strings, wheel available, turns and stops, over the counting of	
12	Ceremony marches, rhythm runs	2. Beden eğitimi ve spord
13	Related (games, music and Rontlar'la rhymes should) case studies	
14	Modernise folk dance	2. Beden eğitimi ve spord

Course Learning Outcomes	
No	Learning Outcomes
C01	INTRODUCED AND is acknowledges himself.
C02	Will develop their skills.
C03	MISSING AND POWER STEERING recognizes.
C04	AGAINST THE BODY AND HEALTH awareness
C05	USING AN EFFECTIVE BİCİMDE the organism to learn.
C06	HEALTHY AND HAPPY LIFE FOR KNOWLEDGE, SKILLS AND PERSONAL, SOCIAL BEHAVIOR will WIN
C07	Gain the concept of life-long sport.
C08	Understands the elements of physical fitness
C09	Identifies the effects of regular exercise on the body.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
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P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
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P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	12	12
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	22	22
Total Work Load			90
ECTS Credit of the Course			3

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET127 INFORMATION TECHNOLOGY AND SCIENTIFIC DOCUMENTATION METHODS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET127	INFORMATION TECHNOLOGY AND SCIENTIFIC DOCUMENTATION METH	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To form the basis of scientific knowledge, to help students analyze their scientific thinking and scientific publications have a structure. Students of information technology, they will be trained in the methods of science and research issues in the use of scientific research and knowledge.

Teaching Methods and Techniques:

philosophy of science, information technology and research.

Prerequisites:

Course Coordinator:

Prof. Nihat ŞINDAK

Instructors:

Asist Prof. Özgür Yaşar ÇELİK

Assistants:

Recommended Sources	
Textbook	: Yaşar,A.(2007).Bilgi teknolojileri ve Bilimsel dökümantasyon metotları ders notları Armağan,İ.(1974).Bilgi ve toplum 1.Bilgi sosyolojisine giriş Barza
Resources	: Bilgi Teknolojileri ve Örgütsel Değişim Çoban, H. (1996).,Armağan, İ. (1974). Bilgi ve Toplum
Documents	:
Assignments	:
Exams	: VİZE,FİNAL,BÜTÜNLEME SINAVI

Course Category			
Mathematics and Basic Sciences	:	Education	: 20
Engineering	:	Science	:
Engineering Design	:	Health	: 40
Social Sciences	: 40	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	veterinary education-teaching program in place and the importance of information technology and scientific documentation		
2	Knowledge of the function and classification.		
3	Modern means of information and science qualifies.		
4	Information from the agricultural society to an industrial society and the transition to society		
5	change the speed and scale of change.		
6	measurement of knowledge,growth and differentiation and the digital divide separating the branches of science.		
7	The information society infrastructure,economic and human parameters.		
8	VİZE		
9	computers,Micro-electronics,robots,communication technology		
10	computers,Micro-electronics,robots,communication technology		
11	biotechnology and new materials.		
12	internet,intranet,extranet and e-commerce.		
13	scientific research and types of research.		
14	Researcher and the methodology of scientific research,researchers properties.		
15	analysis of scientific article and writing techniques.		

Course Learning Outcomes	
No	Learning Outcomes
C01	Access to information and social life saves just use my talents.
C02	Obtain to launch the research and researcher identification.
C03	Provide to making ability for the scientific paper analysis
C04	Conceiving the scientific paper preparing methodology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
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P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
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P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
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P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	12	12
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	22	22
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	5	1	1	1	1	1	1	2	2	1	1	1	1	1	1	2	2	2
C01	4	5	1	1	1	1	1	1	2	2	1	1	1	1	1	1	2	2	2

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET133 VISUAL ARTS EDUCATION-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET133	VISUAL ARTS EDUCATION-I	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

Students develop their understanding of art and art overview

Teaching Methods and Techniques:

Lectures and practice. Why are we doing pictures. The materials used in the picture. Study points. Line Study. Tissue work. Lavin work. Color Pass and Color Wheel. Drawing design work. Perspective work. Perspective work

Prerequisites:

Course Coordinator:

Instructors:

Instructor Demet Erkuzu

Assistants:

Recommended Sources	
Textbook	: Lecture notes, published several books on Art and Photos
Resources	: Resim -I- (Dr.Mümtaz Işingör,Prof.Dr.Erol Eti,Prof.Dr.Mustafa Aslier)Temel Sanat Eğitimi (Nevide Gökaydın)Temel Sanat Eğitimi (Oya Abacı),Temel
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	: 20	Health	:
Social Sciences	:	Field	: 80

Course Content			
Week	Topics	Study Materials	Materials
1	What is art? Artist görevleri.sanat effects on society.		Art and books published over the picture
2	Why are we doing photos?		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
3	The materials used in the picture		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
4	Study Destinations		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
5	Line Work		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
6	Texture work		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
7	Texture work		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
8	Lavin study		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
9	Crossing Circle of Color and Color		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
10	Crossing Circle of Color and Color		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
11	Drawing pattern work		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
12	Drawing pattern work		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
13	Perspective studies		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
14	Perspective studies		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E

Course Learning Outcomes	
No	Learning Outcomes
C01	From classical to contemporary drawing and painting materials to define.
C02	The use of materials and techniques to distinguish the differences.
C03	Fix materials and techniques appropriate to the purpose to know the material.
C04	In visual contrast and balance in the composition of the principles will recognize the relationship.
C05	Develop an idea conceptually appropriate materials, techniques and pictorial language to express the artistic sense.
C06	Photos and understanding of the importance of the artist.
C07	Brushes, water-based paints and oil-based paints stronger technical skills which will show dominance.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows; located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

ING101		ENGLISH-I			
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	ING101	ENGLISH-I	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to enable students to reach A2/B1 level proficiency (Common European Framework of Reference) by developing a solid understanding of fundamental English grammar structures, interpreting short texts and dialogues related to everyday life, and integrating the four core language skills — speaking, writing, listening, and reading — in a cohesive manner, so that they can use English functionally in both daily and professional contexts relevant to their field of study.

Teaching Methods and Techniques:

This course covers fundamental English language topics including personal introductions and greetings, core grammar structures (verb "to be", Simple Present, Simple Past, Present Continuous, Simple Future, and Past Continuous tenses), noun types, pronoun forms, adjectives, adverbs, prepositions, modal verbs, and comparison structures. Reading, listening, speaking, and writing skills are supported through integrated activities, with the aim of enabling students to communicate at A2/B1 level in daily life and professional contexts.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Halil ÖZDEMİR

Instructors:

Asist Prof.Dr. Halil ÖZDEMİR

Assistants:

Recommended Sources

Textbook	:	1. Lecture Notes
Resources	:	2. Essential Grammar in use
Documents	:	3. Oxford University Dictionary
Assignments	:	4-Online Resources-Distant Education (SİUZEM LMS Platform)
Exams	:	PPT UZEM ONLINE LMS

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 80

Course Content

Week	Topics	Study Materials	Materials
1	Nice to Meet You: Personal pronouns, verb "to be" (affirmative/negative/interrogative), singular & plural nouns, countries & nationalities	Reading related part from the sources	Related sources
2	Numbers & Objects: There is/There are, articles (a/an), demonstratives	Reading related parts from sources	Related sources
3	Family & Routines: Simple Present Tense (affirmative), time adverbials, have got/has got, quantifiers	Reading related parts from sources	Related sources
4	Shopping & Quantity: Countable/uncountable nouns, quantifiers (a few/a little), how many/how much, possessive pronoun	Reading related parts from sources	Related sources
5	School & Daily Life: Prepositions of place, object pronouns, possessive adjectives, other prepositions	Reading related parts from sources	Related sources
6	Rules & Permissions: Modals (must/mustn't, can/can't), possessive 's, question tags	Reading related parts from sources	Related sources
7	What's Happening Now?: Present Continuous (affirmative/negative/question), time adverbials, intro to Simple Past (to be)	Reading related parts from sources	Related sources
8	Past Events: Simple Past (affirmative/negative/interrogative), regular & irregular verbs, time adverbials, time clauses	Reading related parts from sources	Related sources
9	Comparing & The Best: Comparatives & superlatives, regular & irregular adjectives	Reading related parts from sources	Related sources
10	Ara Sınav Haftası + Kısa Tekrar: 1–9. hafta konularının sözlü/yazılı özeti		
11	Future Plans: Simple Future, will vs. be going to, contextual differences	Reading related parts from sources	Related sources
12	Consolidation & Habits: Revision, "used to", past habits	Reading related parts from sources	Related sources
13	Animals are wonderful creatures a. Adjectives (before and after nouns) b. Verb + adjective c. Adverbs (fast, quickly) d. Adjectives and Adverbs II + Reading-Writing Practice: Adverbs of manner, place & time; reading and writing activities	Reading related parts from sources	Related sources
14	Adjectives & Adverbs II + Reading-Writing Practice: Adverbs of manner, place & time; reading and writing activities	Reading related parts from sources	Related sources
15	Gecmiste Süregelen Eylemler: Past Continuous, Zaman zarfları, Hikâye anlatma teknikleri	Reading related parts from sources	Related sources
16	Yarıyıl sonu sınavı		

Course Learning Outcomes

No	Learning Outcomes
C01	Identifies and exemplifies basic grammar structures.
C02	Explains the main idea of short everyday texts.
C03	Correctly uses grammar structures in speaking and writing.
C04	Identifies and classifies grammatical errors in a text/dialogue.
C05	Evaluates peer writing/speaking and provides justified feedback.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET141 GOOD VETERINARY MEDICINE APPLICATIONS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET141	GOOD VETERINARY MEDICINE APPLICATIONS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with competence in professional veterinary practice by enabling them to understand the fundamental principles of good veterinary practices, ethical and legal responsibilities, animal welfare, biosecurity measures, and quality management processes.

Teaching Methods and Techniques:

This course covers the fundamental principles of good veterinary practices, professional ethics, legal regulations, animal welfare, biosecurity, infection control, record-keeping systems, quality assurance practices, communication skills, and the planning of sustainable veterinary services.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Banş AKGÜL

Instructors:

Asist Prof.Dr. Kadir SULLU

Assistants:

Research Assist. Sevdet KILIÇ

Recommended Sources	
Textbook	: Özen, A., Doğan, Ö., Başağaç Gül, R.T., Özkul, T., & Yüksel, E.
Resources	: Veterinary Ethics and Deontology.
Documents	: Publications of the Faculty of Veterinary Medicine, Ankara University.
Assignments	: Veterinary Legislation and Ethical Reasoning Notes. Akademisyen Publishing House, Ankara,Özen, A., Doğan, Ö., Başağaç Gül, R.T., Özkul, T., & Y
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to Good Veterinary Practices and Basic Concepts		
2	Professional Ethics and Professionalism in Veterinary Medicine		
3	Legal Regulations and Professional Responsibilities in Veterinary Medicine		
4	Animal Welfare and Welfare Assessment Principles		
5	Biosecurity and Biosecurity Management		
6	Infection Control, Hygiene, and Preventive Veterinary Practices		
7	Record Keeping and Documentation Systems in Veterinary Facilities		
8	Midterm Examination		
9	Quality Assurance Systems and Good Practice Standards		
10	Communication Skills and Client Relationship Management in Veterinary Practice		
11	Risk Management in Veterinary Clinics and Enterprises		
12	Antimicrobial Resistance and Rational Drug Use in Veterinary Medicine		
13	One Health Approach and Good Veterinary Practices from a Public Health Perspective		
14	Sustainability and Environmental Responsibility in Veterinary Medicine		
15	Current Good Veterinary Practices: Case Analyses and General Evaluation		
16	Final Examination		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the fundamental principles of good veterinary practices, professional ethical rules, and legal responsibilities.
C02	Interprets the fundamental concepts related to animal welfare, biosecurity, and infection control.
C03	Applies record-keeping, documentation, and quality assurance procedures in veterinary practice.
C04	Analyzes professional problems encountered in veterinary clinics and enterprises in accordance with good veterinary practices.
C05	Evaluates the relationships among animal health, public health, and environmental health in veterinary practice.
C06	Acts in accordance with ethical values, scientific principles, and lifelong learning approaches in professional activities.
C07	Develops solution proposals for good veterinary practices.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	3	4	3	3	4	4	4	4	3	5	5	1	5	5	5	4	3	4	3
C01	3	3	2	2	3	4	3	3	2	5	5	1	4	3	3	2	1	2	2
C02	2	3	3	2	4	4	5	4	3	4	3	1	3	4	4	3	2	4	3
C03	2	4	2	4	3	3	3	3	3	4	3	1	5	3	3	2	2	2	2
C04	3	4	4	3	4	4	4	4	4	4	4	1	5	4	4	3	3	3	3
C05	3	4	3	2	5	4	4	4	4	5	4	1	4	5	5	4	3	4	3
C06	3	4	2	2	3	3	3	3	2	4	5	1	4	3	4	2	2	2	2
C07	4	5	3	3	4	5	4	4	4	5	5	1	5	5	5	4	4	4	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET139 LABORATORY WORK PRINCIPLES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET139	LABORATORY WORK PRINCIPLES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The objective of this course is to gain practical and theoretical knowledge of basic laboratory procedures and to learn the principles of manual work.

Teaching Methods and Techniques:

The course content includes an introduction to basic science laboratories, the fundamentals of measurement, solution preparation, pH measurement, sample preparation techniques, tissue collection techniques, and the preparation of various types of solutions such as buffer solutions and percentage solutions. An introduction to basic biochemical, physical, and histological methods, carbohydrate analysis, lipid analysis, protein analysis, determination of the isoelectric point, amino acid analysis by paper chromatography, tissue staining, and immunohistochemistry techniques.

Prerequisites:

Course Coordinator:

Prof.Dr. Kıvanç İRAK

Instructors:

Prof.Dr. Kıvanç İRAK

Assistants:

Research Assist. Zahide Yusra YILDIZ

Recommended Sources

Textbook	: Karagül, H., Altıntaş, A., Fidancı, U. R., & Sel, T. (2000). Clinical biochemistry. Medisan Publishing.
Resources	: Sözbilir, N. B., & Baysu, N. (2008). Biochemistry. Öncü Publishing House.
Documents	: Kalaycıoğlu, L., Serpek, B., Nizamlioğlu, M., Başpınar, N., & Tiftik, A. (2000). Biochemistry. Nobel Publishing.
Assignments	: Karagül, H., Altıntaş, A., Fidancı, U. R., & Sel, T. (1998). Veterinary clinical biochemistry applications. Department of Biochemistry, Faculty of Veteri
Exams	: lecture notes

Course Category

Mathmatics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	introduction of basic sciences laboratories	Course of the study subjects planned to Lecture notes	
2	Basics of measurement	Course of the study subjects planned to Lecture notes	
3	Solution preparation, pH measurement, sample preparation techniques	Course of the study subjects planned to Lecture notes	
4	Preparation of various solutions such as buffer solution, percent solution etc.	Course of the study subjects planned to Lecture notes	
5	histochemical techniques	Course of the study subjects planned to Lecture notes	
6	Introduction to basic biochemical and physiological methods	Course of the study subjects planned to Lecture notes	
7	Tissue sampling, fixation, sectioning, and staining methods	Studying the subject matter to be coverlecture notes	
8	Midterm exam		
9	Determination of carbohydrate	Course of the study subjects planned to Lecture notes	
10	Determination of lipid	Course of the study subjects planned to Lecture notes	
11	Protein determination	Course of the study subjects planned to Lecture notes	
12	Determination of isoelectric point	Course of the study subjects planned to Lecture notes	
13	Determination of amino acids by paper chromatography	Course of the study subjects planned to Lecture notes	
14	Immunohistochemical methods	Course of the study subjects planned to Lecture notes	
15	Subject repetition	Course of the study subjects planned to Lecture notes	
16	Midterm exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains laboratory working principles, laboratory safety rules, and biosafety practices.
C02	Distinguishes the basic equipment used in laboratories and their operating principles.
C03	Applies sampling, sample preparation, and analytical procedures according to standard protocols.
C04	Evaluates quality control and quality assurance processes in laboratory studies.
C05	Analyzes laboratory data and interprets the results according to scientific methods.
C06	Identifies laboratory-related risks and plans appropriate preventive measures.
C07	Acts in accordance with ethical principles, professional responsibilities, and teamwork in laboratory studies.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	1	2	2
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	15	15
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	15	15
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	4	5	5	4	4	3	3	5	2	5	2	2	5	5	5	5
C01	4	4	4	3	5	5	3	3	2	4	2	4	2	5	4	4	4	4	4
C02	4	4	4	4	4	4	3	4	2	4	4	2	2	4	4	4	4	4	4
C03	4	4	5	4	5	5	4	4	3	3	5	2	5	2	5	5	5	5	5
C04	4	4	5	4	5	5	4	4	4	4	5	2	5	2	2	5	5	5	5
C05	4	3	4	3	3	3	4	3	3	2	2	2	4	3	3	2	3	3	4
C06	4	4	5	4	5	5	4	4	3	4	5	2	5	2	2	5	5	5	5
C07	4	4	4	4	5	5	5	4	3	3	5	2	4	2	2	5	5	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET101 MEDICAL BIOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET101	MEDICAL BIOLOGY	1	1	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to teach the biological characteristics of living organisms, scientific methods of study, the groups that constitute the kingdom of living organisms, the general structure of the cell, the biochemical compounds that make up the organism, and the processes of respiration, cell division, and development related to these compounds.

Teaching Methods and Techniques:

The content of this course includes an introduction to biological science and the examination of scientific research methods, followed by the basic characteristics and classification of living organisms and the presentation of the main groups that constitute the kingdom of life. It also covers the structure and functions of the cell, cellular components, and the biomolecules that make up the organism (carbohydrates, lipids, proteins, and nucleic acids). In addition, fundamental cellular processes such as respiration, cell division (mitosis and meiosis), and developmental processes are also examined within the scope of the course.

Prerequisites:

Course Coordinator:

Prof.Dr. HURREM TURAN AKKOYUN

Instructors:

Prof.Dr. HURREM TURAN AKKOYUN

Assistants:

Research Assist. Dr. Kübra GEÇMEZ CAHAN

Recommended Sources	
Textbook	: Audesirk, T., & Audesirk, G. (1999). Biology: Life on Earth (5th ed.). Prentice Hall, Upper Saddle River, New Jersey.
Resources	: Campbell, N. A., & Reece, J. B. (2006). Biology (6th ed., translated from Turkish edition; E. Gündüz, A. Demirsoy & İ. Türkan, Eds.). Palme Publish
Documents	: Karol, S., Ayvalı, C., & Suludere, Z. (2000). Cell biology (4th ed.). Öğün Printing House.
Assignments	: Akay, M. T. (2002). Cytology. Palme Publishing.
Exams	: Audesirk, T., & Audesirk, G. (1999). Biology: Life on Earth (5th ed.). Prentice Hall, Upper Saddle River, New Jersey.,Campbell, N. A., & Reece, J. B. Basaran.A.2009.Tıbbi biyoloji.pelikan yayınları

Course Category		
Mathematics and Basic Sciences	:	Education
Engineering	:	Science
Engineering Design	:	Health
Social Sciences	:	Field
		: 100

Course Content		
Week	Topics	Study Materials Materials
1	General introduction; presentation of the course objectives and content; explanation of the course structure and reference	Students are expected to review basic αAudesirk, T., & Audesirk, G. (1999). Biol
2	The general structure of the cell is discussed, focusing on prokaryotic and eukaryotic cells, their basic characteristics, struc	Students are expected to review basic αAudesirk, T., & Audesirk, G. (1999). Biol
3	The chemical structure of the cell is discussed, including water, inorganic and organic compounds present in the cell. In ad	Students are expected to gain basic knoAudesirk, T., & Audesirk, G. (1999). Biol
4	Carbohydrates (monosaccharides, disaccharides, polysaccharides, and complex polysaccharides) and lipids (fatty acids, sir	Students are expected to review basic αAudesirk, T., & Audesirk, G. (1999). Biol
5	Within the chemical structure of the cell, nucleic acids are discussed, including the structure of DNA and RNA, base compo	Students are expected to review basic αAudesirk, T., & Audesirk, G. (1999). Biol
6	Based on the chemical structure of the cell, metabolism and enzymes are discussed, including the structure, properties, an	Students are expected to review basic αAudesirk, T., & Audesirk, G. (1999). Biol
7	The cell membrane is discussed, including the lipids, proteins, and carbohydrates that constitute its structure and their funi	Students are expected to review basic αAudesirk, T., & Audesirk, G. (1999). Biol
8	The midterm examination is conducted.	
9	The structure and functions of the cell membrane are further discussed, and the structure and functions of the cell wall, as	Students are expected to review basic αAudesirk, T., & Audesirk, G. (1999). Biol
10	Lateral and apical plasma membranes are discussed, focusing on cellular polarity in epithelial cells and the structural and f	Students are expected to review basic αAudesirk, T., & Audesirk, G. (1999). Biol
11	The mechanisms of uptake of macromolecules and particles into the cell are discussed, including endocytosis (phagocytosi	Students are expected to review basic αAudesirk, T., & Audesirk, G. (1999). Biol
12	Intracellular membrane systems are discussed, including the cytoplasm, endoplasmic reticulum (ER), Golgi apparatus, and	Students are expected to review basic αAudesirk, T., & Audesirk, G. (1999). Biol
13	Lysosomes, vacuoles, and chloroplasts are discussed, and their structures and functions are examined in detail along with	Students are expected to review basic αAudesirk, T., & Audesirk, G. (1999). Biol
14	Ribosomes, protein synthesis, and the structure and functions of the nucleus are discussed, focusing on the intracellular pr	Students are expected to review basic αAudesirk, T., & Audesirk, G. (1999). Biol
15	Mitosis and meiosis are discussed, including the cell cycle, chromosome behavior, and the biological significance of these t	Students are expected to review basic αAudesirk, T., & Audesirk, G. (1999). Biol
16	The final examination is conducted.	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the fundamental biological characteristics of living organisms, the classification of living kingdoms, and the basic features of major organism groups.
C02	Explains the structure of the cell, the functions of cellular organelles, and the characteristics of the major biomolecules composing organisms.
C03	Collects, organizes, and interprets data related to biological phenomena using scientific research methods.
C04	Compares cellular respiration, cell division, and developmental processes and analyzes their roles in biological systems.
C05	Evaluates the relationships between biological structures, functions, and processes from a holistic perspective and approaches basic biological problems with a scientific mindset.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	31	31
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	31	31
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

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Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET103 MEDICAL PHYSICS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET103	MEDICAL PHYSICS	1	1	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

Upon successful completion of this course, the students will be able to; interpret the basics in medical physics, describe the knowledge of basic physical, electrical and chemical activities on animals, interpret cell structures, transport systems, neurons and action potentials.

Teaching Methods and Techniques:

Biophysics aims to impart to students the basic knowledge and skills related to the whole system.

Prerequisites:

Course Coordinator:

Instructors:

Asist Prof.Dr. Sevgi GÜNEŞ

Assistants:

Recommended Sources	
Textbook	: Anabilim Dalının ders notları, -Dukes Veteriner Fizyoloji, Medipres (2008) -Guyton& Hall Tıbbi Fizyoloji Nobel Tıp Kitabevi (2007) -Evciil Hayvanların
Resources	: Dukes Veteriner Fizyoloji, Medipres (2008) -Guyton& Hall Tıbbi Fizyoloji Nobel Tıp Kitabevi (2007) -Functional Anatomy and Physiology of Domestic
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	: 50
Engineering Design	:	Health	: 50
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to medical physics.		
2	Animal and Human cell: Structures		
3	Animal and Human cell: Transport systems		
4	Neurons		
5	Neurons, Action Potentials		
6	Action Potentials		
7	ECG		
8	MIDTERM EXAM		
9	ECG		
10	Optics and Eye		
11	Sound waves and Hearing		
12	Student presentations		
13	Student presentations		
14	Student presentations		
15	Student presentations		
16	Final Exam.		

Course Learning Outcomes	
No	Learning Outcomes
C01	Demonstrate skills and tools necessary to promote life-long learning
C02	With awareness of the needs of the country and regions, offer the solutions and treatment options in veterinary services by using scientific technique and methods.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	16	1	16
Hours for off-the-c.r.stud	12	3,5	42
Assignments	2	2	4
Presentation	0	0	0
Mid-terms	1	9	9
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	18	18
Total Work Load			89
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	1	1	1	1	1	1	1	4	3	1	2	2	1	1	1	2	2
C01	4	5	4	4	2	3	2	1	1	3	4	2	3	3	2	1	2	3	3
C02	4	4	4	4	2	3	2	1	1	3	4	2	3	3	2	1	2	3	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET137 PROFESSIONAL ENGLISH-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET137	PROFESSIONAL ENGLISH-I	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To teach students the English and Turkish equivalents of general terminology in related fields-to gain the ability to understand the parts of the profession

Teaching Methods and Techniques:

To teach students the general terminology in English and Turkish in related fields and to gain the ability to understand the parts related to the profession.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. AYFER FINDIK

Instructors:

Assistants:

Recommended Sources	
Textbook	: Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Resources	: Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Documents	:
Assignments	:
Exams	:

Course Category		
Mathematics and Basic Sciences	:	Education
Engineering	:	Science
Engineering Design	:	Health
Social Sciences	:	Field
		: 100

Course Content		
Week	Topics	Study Materials
1	Medikal English text and Turkish translation	subjects should be chosen as appropriate
2	Medikal English text and Turkish translation	subjects should be chosen as appropriate
3	Medikal English text and Turkish translation	subjects should be chosen as appropriate
4	Medikal English text and Turkish translation	subjects should be chosen as appropriate
5	Medikal English text and Turkish translation	subjects should be chosen as appropriate
6	Medikal English text and Turkish translation	subjects should be chosen as appropriate
7	Medikal English text and Turkish translation	subjects should be chosen as appropriate
8	mid term exam	Course of the study subjects planned to
9	Medikal English text and Turkish translation	subjects should be chosen as appropriate
10	Medikal English text and Turkish translation	subjects should be chosen as appropriate
11	Medikal English text and Turkish translation	subjects should be chosen as appropriate
12	Medikal English text and Turkish translation	subjects should be chosen as appropriate
13	Medikal English text and Turkish translation	subjects should be chosen as appropriate
14	Medikal English text and Turkish translation	subjects should be chosen as appropriate
15	Medikal English text and Turkish translation	subjects should be chosen as appropriate

Course Learning Outcomes	
No	Learning Outcomes
C01	Learning English terminology that can be encountered throughout the professional life
C02	To gain the ability to understand simple and medium medical articles.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

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Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET135 MUSIC-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET135	MUSIC-I	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To understand the contents of the basic concepts of music and music-related education to have knowledge.

Teaching Methods and Techniques:

Basic music knowledge, music note knowledge, space knowlege in music notes, rhythm in musicı, making song repertoryı; sorts of music in Turkey and world; traditional music and modern music, teaching enstruments, playing enstrument and singing together, role of music in education, developing creativty in music

Prerequisites:

Course Coordinator:

Instructors:

Instructor Halil KILIÇVURAN

Assistants:

Recommended Sources	
Textbook	: 1-Yurga,c.(2004)20.century popular Music in turkey
Resources	: 2-SUN M.(1998) Fundamentals of Music education with songs Türkülerle
Documents	: Online course content and Ahmet Say's Müzik Tarihi
Assignments	:
Exams	:

Course Category		
Mathmatics and Basic Sciences	:	Education
Engineering	:	Science
Engineering Design	:	Health
Social Sciences	:	Field

Course Content			
Week	Topics	Study Materials	Materials
1	One octave voices and teaching voices with flute		Textbook
2	Teaching C,D,E voices with flute and exercises		Textbook
3	Teaching F,G,A,B voices with flute and exercises		Textbook
4	Teaching cild songs in C,D,E voice space		Textbook
5	Teaching child songs in F,G,A,B voice space		Textbook
6	Fonomimi exercises		Textbook
7	Mid-Term Exam		
8	Teaching Çarşıya vardım,ciftlik songs with flute		Textbook
9	Teaching basic traditional child songs bona and flüt exercises		Textbook,sourcebooks
10	Teaching" şubat,mevsimler" songs with flute		Source books
11	Teaching Kıs,Okul songs with flüt		Textbook
12	Teaching Annedğim and Hayvanlar songs with flüt		Textbook,sourcebook
13	Teaching Bayrađım and Bilmem şu feleđin songs with flute		Source books
14	The teaching of national anthem		Textbook

Course Learning Outcomes	
No	Learning Outcomes
C01	Perform the blokflüt exercises
C02	Perform the fonomimi exercises
C03	Play sqongs with an musical instruments
C04	Read notes of child's sings
C05	Teach of child's sings
C06	Prepeare a child chorus
C07	Use child's sings at enother lessons

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows; located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

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Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET105 ORGANIC CHEMISTRY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET105	ORGANIC CHEMISTRY	1	1	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The objective of this course is to provide general and specialized knowledge in organic chemistry as a preparation for biochemistry, following an introduction to basic physical chemistry.

Teaching Methods and Techniques:

The content of this course covers general topics in organic chemistry and organic chemical reactions.

Prerequisites:

Course Coordinator:

Prof.Dr. Kıvanç İRAK

Instructors:

Prof.Dr. Kıvanç İRAK Prof.Dr. Mahire BAYRAMOĞLU AKKOYUN

Assistants:

Research Assist. Zahide Yusra YILDIZ

Recommended Sources	
Textbook	: Serpek, B. (2015). Organic Chemistry. Nobel Academic Publishing.
Resources	: Solomons G. and Fryhle C., (Translation Editors Okay G. and Yıldırım Y.), Organic Chemistry, 7th Edition, Translation, Literature Publishing, Istanbul,
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	: 10	Education	:
Engineering	: 10	Science	: 30
Engineering Design	:	Health	: 50
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Atomic Structure and the Periodic Table		
2	Chemical Bondings		
3	Basic Structure of Materials		
4	Basic Rules of Chemical Reactions		
5	Acids and Bases		
6	Kinetic of Chemical Reactions		
7	Structures and Reaction Types of Organic Compounds		
8	Midterm Exam		
9	Structure Formulas and Naming		
10	Aliphatic and Carboxyls		
11	Heterocyclic Compounds		
12	Amines		
13	Alcohols and Ethers		
14	Aldehydes and Ketones		
15	Amino Acids and Peptides		
16	Midterm Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the structures, classifications, and fundamental properties of organic compounds.
C02	Distinguishes the nomenclature and functional groups of organic compounds.
C03	Analyzes organic reaction mechanisms and stereochemical events.
C04	Relates the organic structures of carbohydrates, lipids, amino acids, and proteins to biological processes.
C05	Uses organic chemistry knowledge in interpreting biological and biochemical events encountered in veterinary medicine.
C06	Develops scientific approaches and proposes solutions to problems related to organic chemistry.
C07	Demonstrates lifelong learning and professional development awareness by following information resources in organic chemistry.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
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P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
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P08	In animal breeding and feeding areas will have theoretical and practical knowledge
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P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	4	56
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	4	4	5	5	4	4	3	3	5	3	4	2	2	4	5	4	5
C01	5	5	3	3	5	5	5	3	2	2	3	2	3	2	3	4	4	3	4
C02	5	5	3	4	5	5	3	3	2	2	4	2	3	2	2	3	4	3	4
C03	4	4	4	4	5	5	4	4	5	3	4	2	2	4	5	4	5	4	5
C04	4	4	5	4	4	5	4	5	4	3	5	2	4	4	5	4	4	4	5
C05	4	4	5	4	4	4	4	5	5	5	5	2	5	2	4	5	5	5	5
C06	4	4	4	4	4	5	5	4	4	3	4	5	2	5	2	2	5	4	5
C07	5	5	4	4	4	4	4	4	3	3	5	3	4	2	2	5	4	4	4

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		%0

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			0
ECTS Credit of the Course			0

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant



Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET129 BASIC COMPUTER					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET129	BASIC COMPUTER	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim is to enable students to grasp fundamental information technology concepts, acquire professional-level skills in using operating systems and office software (word processors, presentation software, spreadsheets), and become proficient in digital literacy, internet security, and ethical principles.

Teaching Methods and Techniques:

The curriculum covers fundamental computer components (hardware and software), operating system usage, file management, Microsoft Office programs (Word, Excel, PowerPoint), internet technologies, networking fundamentals, cybersecurity, and information ethics.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Erman Gülelendağ

Instructors:

Asist Prof.Dr. Erman Gülelendağ

Assistants:

Recommended Sources	
Textbook	: Yaşar,A.(2007).Bilgi teknolojileri ve Bilimsel dökümantasyon metotları ders notları Armağan,İ.(1974).Bilgi ve toplum.Bilgi sosyolojisine giriş Barzan
Resources	: Yaşar,A.(2007).Bilgi teknolojileri ve Bilimsel dökümantasyon metotları ders notları.
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	: 10	Education	: 10
Engineering	: 10	Science	:
Engineering Design	: 10	Health	: 10
Social Sciences	: 10	Field	: 50

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to computer sciences		
2	History of computers and areas that computers are used		
3	Fundamental terms, concepts and principles of computer use		
4	Program, data, programming language, file, folder and drivers		
5	Build in computer hardwares		
6	External computer hardwares		
7	Introduction to softwares and operation systems		
8	Mid-term exam		
9	Windows 7 operation systems		
10	Data protection in computer use		
11	Microsoft Word 2010		
12	Microsoft Excel 2010		
13	Microsoft Powerpoint 2010		
14	Photoshop and corel draw,Internet softwares and principles of surfing in the internet		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines basic computer hardware components and software types.
C02	Performs basic file and directory management operations on the operating system.
C03	Prepares reports and documents in academic standards using word processor software.
C04	Accesses information resources on the internet safely and uses information within the framework of ethical rules.
C05	Acts in accordance with the principles of data security and protection of personal data on digital platforms.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	15	1	15
Hours for off-the-c.r.stud	15	1	15
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			32
ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	2	3	1	3	1	2	2	2	3	3	4	3	2	1	1	2	3	4	1
C01	2	3	1	1	1	2	3	1	1	3	2	3	4	2	1	1	3	2	1
C02	2	2	2	2	2	1	1	2	2	1	2	1	2	1	2	2	2	2	2
C03	2	3	1	4	2	2	2	2	2	3	1	2	3	3	2	1	3	2	2
C04	2	2	3	3	3	4	3	2	1	2	3	2	2	3	2	1	3	2	3
C05	2	3	1	3	4	3	2	3	1	3	3	4	4	4	3	2	3	1	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

TUR101 TURKISH LANGUAGE I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	TUR101	TURKISH LANGUAGE I	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

To improve students' love and understanding of mother tongue who are studying in various departments in accordance with the constantly progressing conditions of the age; to emphasize the connection between language and thought; to enlighten individuals who are scientifically productive, creative, able to use their mother tongue accurately and equipped with contemporary knowledge, in language and literature history.

Teaching Methods and Techniques:

Presentation, show Brainstorming, Questions and Answers

Prerequisites:

Course Coordinator:

Instructors:

Instructor Yasemin KURLTU

Assistants:

Recommended Sources	
Textbook	:
Resources	: Aksan Doğan, Her Yönüyle Dil, Ana Çizgileriyle Dilbilim 1. TDK Yayınları. 1977,Ergin, Muharrem; Türk Dil Bilgisi, İstanbul, 1962,Mehmet Kaplan:Kült
Documents	:
Assignments	: 2
Exams	: 2

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Aims and objectives of the course, content, materials and introduction of the semester curriculum.	Course preparation of presentation	Prof. Dr. Serif Aktas, Yrd. Doc. Dr. Osm
2	What is language? What are the features of language?	Course preparation of presentation	Tören,Yükseköğretimde Türk Dili, Filiz K
3	Theories of the birth of languages and language types.	Course preparation of presentation	Prof. Dr. Zeynep Korkmaz, Prof. Dr. Ahn
4	Language-culture relation	Course preparation of presentation	Prof. Dr. Coşkun Ak,Türk Dili,Nobel Yayı
5	World languages and the place of Turkish among them.	Course preparation of presentation	Prof Dr. Muharrem Ergin, Üniversiteler İ
6	Historic phases of the Turkish Language	Course preparation of presentation	Prof. Dr. Zeynep Korkmaz, Prof. Dr. Ahn
7	What is grammar? Subjects and chapters of grammar.	Course preparation of presentation	Prof Dr. Muharrem Ergin, Üniversiteler İ
8	Mid-term exam and course assessment	Preparation of test papers	Prof. Dr. Coşkun Ak,Türk Dili,Nobel Yayı
9	Classification of sounds in Turkish, sound features of Turkish	Course preparation of presentation	Prof. Dr. Zeynep Korkmaz, Prof. Dr. Ahn
10	Sound actions, syllable structures and intonation in Turkish	Course preparation of presentation	Prof Dr. Muharrem Ergin, Üniversiteler İ
11	Inflectional and derivational suffixes in Turkish	Course preparation of presentation	Prof Dr. Muharrem Ergin, Üniversiteler İ
12	Parts of speech (nouns, adjectives, adverbs, pronouns)	Course preparation of presentation	Prof. Dr. Coşkun Ak,Türk Dili,Nobel Yayı
13	Parts of speech (verbs, conjunctions, prepositions, exclamations)	Course preparation of presentation	Prof. Dr. Coşkun Ak,Türk Dili,Nobel Yayı
14	Sentence elements and types	Course preparation of presentation	Prof. Dr. Coşkun Ak,Türk Dili,Nobel Yayı

Course Learning Outcomes	
No	Learning Outcomes
C01	Using Turkish accurately and well.
C02	Developing language understanding by pointing out the language culture-society connection
C03	Examplng the current place and condition of the Turkish language among world languages and spread areas.
C04	Application of the features, functions and rules of the Turkish Language with examples.
C05	Using the Turkish versions of the professional and scientific field terms.
C06	Analyzing the Turkish Language
C07	Scientific contribution to the Turkish Language and Literature.
C08	Comparison of the past and the present of the Turkish Language.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	14	%30
Quizzes	0	%0
Assignment	2	%20
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%50
Total		%100

[illegible]

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		%0

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			0
ECTS Credit of the Course			0

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant



Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET125 VETERINARY COMMUNITY RELATIONS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET125	VETERINARY COMMUNITY RELATIONS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To ensure compliance of the students to the profession and to develop communication skills with their professionals and the society by gaining professional rules and moral values.

Teaching Methods and Techniques:

Sociology and basic conceptions, Socialization, Medical sociology, Public conception and properties, Animals and human communities ? properties, Individual and public relations, Veterinarian and public relations, The Position of veterinarian in community, General rules of veterinary practice, Relations with clients and public, relations with colleagues, Relations with paramedical and biomedical professions, Veterinary services,

Prerequisites:

Course Coordinator:

Prof.Dr. Nihat ŞINDAK

Instructors:

Prof.Dr. Nihat ŞINDAK

Assistants:

Prof.Dr. Nihat ŞINDAK

Recommended Sources

Textbook	:	Göksel, F.A. (1989). Medical Sociology Course Notes, Şenel, A. (1995). To Civilized Society from Primitive Society, Fichter, J. (2002). What is the
Resources	:	Şenel, A. (1995). İlkel Topluluktan Uygur Topluma,Sosyoloji Nedir? (Çev. N. Çelebi)
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 100

Course Content

Week	Topics	Study Materials	Materials
1	Sociology and basic conceptions	Related course work on the subject befcGöksel, F.A. (1989). Medical Sociology C	
2	Socialization	Related course work on the subject befcOzankaya, O. (1996). Sociology	
3	Medical sociology	Related course work on the subject befcGöksel, F.A. (1989). Medical Sociology C	
4	Public conception and properties	Related course work on the subject befcŞenel, A. (1995). To Civilized Society fro	
5	Animals and human communities ? properties	Related course work on the subject befcTanilli, S. (1994). Reality and Inheritanc	
6	Individual and public relations	Related course work on the subject befcFichter, J. (2002). What is the Sociology	
7	Veterinarian and public relations	Related course work on the subject befcTanilli, S. (1994). Reality and Inheritanc	
8	Term examination		
9	The Position of veterinarian in community	Related course work on the subject befcTanilli, S. (1994). Reality and Inheritanc	
10	The Position of veterinarian in community	Related course work on the subject befcTanilli, S. (1994). Reality and Inheritanc	
11	General rules of veterinary practice	Related course work on the subject befcGöksel, F.A. (1989). Medical Sociology C	
12	Relations with clients and public, relations with colleagues	Related course work on the subject befcOzankaya, O. (1996). Sociology	
13	Relations with paramedical and biomedical professions	Related course work on the subject befcGöksel, F.A. (1989). Medical Sociology C	
14	Veterinary services	Related course work on the subject befcGöksel, F.A. (1989). Medical Sociology C	
15	General evaluation	Related course work on the subject befcFichter, J. (2002). What is the Sociology	

Course Learning Outcomes

No	Learning Outcomes
C01	Teach communication knowledges. Acquire professional communication abilities. Provide the ability of evaluation of communication issues. Obtaining the effective communication tools in their prof
C02	Acquire professional communication abilities.
C03	Provide the ability of evaluation of communication issues.
C04	Obtaining the effective communication tools in their professional lives.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	22	22
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	1	1	2	1	1	1	2	5	4	1	1	1	5	1	1	1	1
C01	5	5	1	1	2	1	1	1	2	5	4	1	1	1	5	1	1	1	1

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET107 HISTORY OF VETERINARY MEDICINE AND DEONTOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET107	HISTORY OF VETERINARY MEDICINE AND DEONTOLOGY	1	1	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

In this course; it is aimed for students to comprehend the historical development stages of veterinary medicine from ancient times to the present, to internalize the principles of professional ethics (deontology), to learn legal regulations, and to act with ethical and legal responsibility in their professional practices.

Teaching Methods and Techniques:

The course covers the historical development of veterinary medicine globally and in Türkiye, ethical dilemmas in veterinarian-patient-client relationships, bioethical concepts, and legal responsibilities within the framework of professional legislation.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Prof.Dr. Tekin ŞAHİN

Assistants:

Research Assist. mahsum Başak

Recommended Sources

Textbook	: Yaşar, A. (2005). History of Veterinary Medicine Deontology Text Book
Resources	: 2. Bekman, M. (1940). History of Veterinary Medicine,3. Erk, N. (1978). History of Veterinary Medicine,4. Erk, N., Dinçer, F. (1970). Teaching of Ve
Documents	:
Assignments	:
Exams	:

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	: 0	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	The higher educational conception, its institutes academic staff, the historical development of the universities in Turkey in I	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
2	The place of veterinary medicine in university system other professions	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
3	The place importance of the history of veterinary medicine in veterinary curriculum relations between veterinary history his	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
4	The sources of the history of veterinary medicine	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
5	The parigims of diseases curative methods through the history	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
6	The profile of the veterinary medicine from past to the present veterinarians in different civilisations	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
7	The history of scientific veterinary medicine in Turkey in the world	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
8	MIDTERM EXAM		
9	The organisation of veterinary medicine in Turkey	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
10	International organisations veterinary medicine	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
11	Veterinary medicine human health	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
12	The pioneers of veterinary medicine in Turkey	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
13	Deontology within the scope of veterinary medicine (conceptions approaches)	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
14	Professional deontology - I	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
15	Professional deontology - II	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo
16	FINAL EXAM	Course of the study subjects planned to 1.	Yaşar, A. (2005). Histo

Course Learning Outcomes

No	Learning Outcomes
C01	Chronologically lists the turning points and prominent figures of veterinary history globally and in Türkiye.
C02	Explains the legal boundaries of primary legislations and laws concerning veterinary medicine.
C03	Analyzes ethical dilemmas encountered in clinical practice (euthanasia, animal welfare violations, etc.) according to deontological rules.
C04	Conducts relations between the veterinarian, client, and colleagues in accordance with professional and ethical communication protocols.
C05	Advocates for bioethical principles and universal animal rights in animal experimentation and biotechnological applications.
C06	Evaluates legal rights, responsibilities, and penal sanction processes in cases of malpractice (medical error).
C07	Issues official professional documents, reports, and prescriptions without errors in accordance with legal regulations.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P02	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	14	4	56
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			100
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	1	1	5	1	1	1	2	2	5	1	1	1	1	1	1	1	1
C01	5	4	5	4	2	2	1	2	1	5	5	3	2	5	4	1	2	3	2
C02	5	4	1	2	5	4	1	1	2	5	4	5	2	3	5	4	1	1	2
C03	3	2	2	1	3	2	1	5	4	1	1	2	2	2	3	2	2	5	4
C04	3	3	2	5	4	5	5	4	1	2	5	4	2	2	3	2	5	4	5
C05	1	2	3	2	5	4	1	2	3	5	4	4	5	4	1	2	3	2	5
C06	4	1	2	3	2	5	4	5	4	2	3	5	4	2	3	2	5	4	1
C07	5	4	5	4	5	5	1	1	2	4	2	1	5	2	1	2	3	3	2

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET111 VETERINARY TERMINOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	VET111	VETERINARY TERMINOLOGY	2	2	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to teach the fundamental anatomical, clinical, and directional terminology used in veterinary medicine in accordance with international terminology standards and to enable students to gain accurate terminology usage skills in professional communication.

Teaching Methods and Techniques:

This course covers the fundamental concepts of veterinary anatomical terminology, Latin-based anatomical terms, body regions, directional and movement terms, terminology related to organ systems, and basic professional terms used in clinical applications. Students gain terminology usage skills in accordance with Nomina Anatomica Veterinaria.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Fatma İŞBİLİR

Instructors:

Associate Prof.Dr. Barış Can GÜZELAssociate Prof. Dr. Fatma İŞBİLİR

Assistants:

Research Assist. Muhammed Zahid ATLI

Recommended Sources	
Textbook	: International Committee on Veterinary Gross Anatomical Nomenclature (ICVGAN). (2017). Nomina Anatomica Veterinaria (6th ed.).
Resources	:
Documents	: Dyce, K. M., Sack, W. O., & Wensing, C. J. G. (2017). Textbook of Veterinary Anatomy (5th ed.). Elsevier.
Assignments	:
Exams	: Singh, B. (2018). Saunders Veterinary Anatomy Coloring Book (2nd ed.). Elsevier.

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 100
Social Sciences	: 0	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to veterinary terminology and basic concepts	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
2	History of anatomical terminology and Nomina Anatomica Veterinaria	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
3	Basic Latin terms used in anatomy	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
4	Body regions and anatomical planes	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
5	Anatomical directional terms	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
6	Terms of movement and position	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
7	Skeletal system terminology	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
8	Midterm		
9	Muscular system terminology	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
10	Digestive system terminology	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
11	Respiratory system terminology	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
12	Circulatory and nervous system terminology	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
13	Urogenital system terminology	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
14	Clinical veterinary terminology and professional usage	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
15	Terminology review and general evaluation	Related course work on the subject befcSafiye	ERGIN KAYA & Zafer KAYA, Ali BI
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the fundamental concepts and Latin terms used in veterinary anatomical terminology.
C02	Explains anatomical regions, planes, and directional terms of the animal body accurately.
C03	Uses basic anatomical terminology employed in veterinary medicine in professional communication.
C04	Distinguishes terminological expressions related to the muscular, skeletal, digestive, respiratory, and circulatory systems.
C05	Applies anatomical terminology in accordance with Nomina Anatomica Veterinaria.
C06	Evaluates knowledge related to veterinary terminology within the framework of ethical and scientific principles.
C07	Expresses basic anatomical structures verbally and in writing by using veterinary terminology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P02	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	15	2	30
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	12	12
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			82
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	5	4	4	4	4	3	3	3	3	4	4	4	3	3	3
C01	5	5	5	5	4	4	4	3	3	3	5	5	5	4	4	4	4	5	5
C02	5	3	3	3	5	5	3	3	5	5	5	4	4	3	5	5	4	4	2
C03	4	3	3	3	5	4	3	5	4	5	4	3	5	4	3	4	5	3	5
C04	5	3	5	4	3	5	4	5	3	5	5	3	5	4	5	3	4	4	4
C05	4	5	3	5	5	5	5	3	5	5	5	4	5	5	3	5	4	5	3
C06	3	4	5	5	3	3	3	3	3	4	4	4	4	3	3	3	4	3	3
C07	5	4	3	5	4	5	5	5	5	3	3	3	5	3	3	3	3	3	5

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET146 AGRONOMY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET146	AGRONOMY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach crop production techniques, soil-plant relationships, and productivity principles, and to provide the knowledge and skills necessary for sustainable and efficient crop production.

Teaching Methods and Techniques:

This course covers soil-plant relationships, the effects of climatic factors on plant growth, crop production techniques, planting methods, fertilization, irrigation, weed control, and harvesting practices. It also includes sustainable agriculture, productivity improvement strategies, and problems encountered in crop production

Prerequisites:

Course Coordinator:

Instructors:

Prof.Dr. Tuncay TUFAN

Assistants:

Recommended Sources	
Textbook	: Gardner, F. P., Pearce, R. B., & Mitchell, R. L. (2004). Physiology of crop plants. Iowa State University Press.
Resources	:
Documents	: Havlin, J. L., Tisdale, S. L., Nelson, W. L., & Beaton, J. D. (2014). Soil fertility and fertilizers: An introduction to nutrient management (8th ed.). Pe
Assignments	:
Exams	: Lal, R. (2020). Soil health and sustainable agriculture. Sustainability, 12(6), 2345.

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to agronomy and its importance		
2	Introduction to soil science and soil properties		
3	Soil-plant relationships		
4	Climatic factors and plant growth		
5	Plant growth and development processes		
6	Planting and sowing methods		
7	Fertilization techniques		
8	midterm exam		
9	Weeds and control methods		
10	Cultivation techniques in field crops		
11	Plant nutrition and yield relationship		
12	Harvesting and post-harvest practices		
13	Sustainable agriculture practices		
14	Methods to increase productivity in agriculture		
15	Problems encountered in agricultural production		
16	Final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the cultivation techniques of field crops.
C02	Analyzes soil-plant-climate relationships.
C03	Evaluates environmental factors affecting plant growth.
C04	Applies appropriate planting, fertilization, and irrigation methods.
C05	Explains and applies weed control methods.
C06	Develops sustainable and efficient crop production strategies.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	15	15
Total Work Load			53
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	4	4	4	4	4	5	5	4	4	4	4	5	5	4	5	4	4
C01	4	4	4	5	5	4	5	4	4	5	5	5	3			4	5	4	5
C02	4	5	5	5	5	5	5	4	5	5	5	5	3	5	5	5	5	5	5
C03	3	4	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5
C04	5	3	5	5	5	5	5	4	3	3	3	3	3	5	5	5	4	4	5
C05	5	4	3	3	4	5	4	4	4	5	5	3	5	4	5	3	4	3	5
C06	5	4	5	3	4	4	4	5	5	5	3	3	5	4	4	4	5	4	3

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET104 ANATOMY-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET104	ANATOMY-II	7	5	7

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to enable undergraduate veterinary medicine students to identify, explain and relate the anatomical structures of the digestive, respiratory, circulatory, lymphatic, nervous, sensory, endocrine and urogenital systems in domestic mammals through a comparative interspecies approach.

Teaching Methods and Techniques:

This course covers the anatomy of splanchnology, angiology, neurology, aesthesiology and the urogenital system in domestic mammals. The macroscopic structures, topographical locations, interspecies anatomical differences and clinical relevance of organs are addressed comparatively.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Fatma İŞBİLİR

Instructors:

Associate Prof.Dr. Fatma İŞBİLİR Associate Prof.Dr. Barış Can GÜZEL

Assistants:

Research Assist. Muhammed Zahid ATLI

Recommended Sources		
Textbook	: 1.	Veteriner Anatomi I (Nejdet Dursun, Ankara, 2008)
Resources	: 2.	Veteriner Anatomi II (Nejdet Dursun, Ankara, 2008)
Documents	: 3.	Veteriner Anatomi III (Nejdet Dursun, Ankara, 2008)
Assignments	: 4.	Veteriner Topografik Anatomi (Nejdet Dursun, Ankara, 2008)
Exams	: 5.	Evcil Kuşların Anatomisi (ed. Nejdet Durun Ankara 2004)
	: 6.	Embrivoloji (Osman Hassa, Resat Nuri Asti, Ankara 2003)

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 100
Social Sciences	: 0	Field	: 0

Course Content		
Week	Topics	Materials
1	Introduction to the course; overview of systematic and topographical anatomy. Introduction to the digestive system, anat	Cavum oris, lips, bucca, teeth, hard and
2	Anatomy of the salivary glands, pharynx, oesophagus and stomach; interspecies comparisons.	Head regions
3	Anatomy of the small intestine, large intestine, liver and pancreas.	Intestines, liver, pancreas, abdominal ca
4	Anatomy of the respiratory system: nasal cavity, larynx, trachea, bronchi and lungs. Male genital organ	Localization and shape of kidneys, struc
5	Anatomy of the circulatory system: heart, pericardium, great vessels and basic arterial circulation.	-Partes genitalis feminae internae: ova
6	Anatomy of the venous system, lymphatic system, lymph nodes, spleen and thymus.	Cor, pericardium, right and left ventricul
7	Introduction to the urogenital system; anatomy of the kidney, ureter, urinary bladder and urethra.	Veins, pulmonary veins, veins of heart, c
8	MID EXAM	
9	Anatomy of the male genital system: testis, epididymis, ductus deferens, accessory genital glands and penis.	Formation of the lymph fluid, capillary ly
10	Anatomy of the female genital system: ovary, uterine tube, uterus, vagina and vulva; interspecies differences.	Classification of central nervous system,
11	Introduction to the nervous system; central nervous system, encephalon, spinal cord and meninges.	Cervical nerves, brachial plexus, thoracic
12	Peripheral nervous system, cranial nerves, spinal nerves and autonomic nervous system.	Olfactory nerve, optic nerve, oculomotor
13	Anatomy of sensory organs: eye, ear, skin and related accessory structures.	Sympatic nerves, parasympatic nerves, c
14	Anatomy of the endocrine system: pituitary gland, pineal gland, thyroid, parathyroid, adrenal glands and other endocrine s	Orbita, palpebra, conjunktiva, ql. lacrimal
15	General review of systems; comparative interspecies anatomy and evaluation related to clinical anatomy.	The skeletal and muscular systems, Sple
16	Final Exam	

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the basic anatomical structures of the digestive, respiratory, circulatory, lymphatic, nervous, sensory, endocrine and urogenital systems in domestic mammals.
C02	Explains interspecies anatomical differences of organs and systems based on systematic and topographical anatomy.
C03	Relates the location, adjacency and functional relationships of anatomical structures to clinical practices.
C04	Demonstrates anatomical structures on cadavers, organ specimens, models and visual materials using correct terminology.
C05	Uses anatomical knowledge of the urogenital, circulatory, respiratory and digestive systems in veterinary medical practices.
C06	Evaluates anatomical knowledge in terms of animal health, diagnosis and treatment of diseases and preventive medicine processes.
C07	Interprets anatomical terminology and system knowledge with professional ethics, current scientific knowledge and a lifelong learning approach.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	14	5	70
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	16	16
Practice	14	4	56
Laboratory	0	0	0
Project	0	0	0
Final examination	1	16	16
Total Work Load			200
ECTS Credit of the Course			7

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	5	4	4	5	2	3	5	4	3	5	4	3	5	4	3	4
C01	4	4	4	4	5	5	5	5	5	5	3	3	3	3	3	3	5	5	5
C02	4	4	4	4	4	4	4	5	5	5	5	4	5	3	5	4	5	3	5
C03	4	3	5	4	3	5	4	3	5	4	3	5	3	5	4	5	3	5	4
C04	3	5	4	3	5	4	3	5	4	3	5	4	3	5	4	3	5	4	3
C05	5	4	3	5	4	3	5	4	3	5	4	5	5	4	5	3	3	5	4
C06	5	5	3	5	4	5	3	5	4	5	5	4	5	5	5	5	5	4	4
C07	4	4	4	4	3	3	3	3	3	5	5	5	5	5	5	4	4	4	4

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ATA102 PRINCIPLES OF ATATÜRK AND TURKISH REVOLUTION HISTORY II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	ATA102	PRINCIPLES OF ATATÜRK AND TURKISH REVOLUTION HISTORY II	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

is to give information about the events within the period from the fall of the Ottoman Empire until the declaration of the Republic.

Teaching Methods and Techniques:

Fall of the Ottoman Empire, Tanzimat and Islahat Firmans, Constitutional Monarchy I and II, Tripoli and Balkan Wars, World War I, Moudros Truce, Wilson Principles, Paris Conference, Arrival of Mustafa Kemal to Samsun, Amasya Memorandum, National Congresses, Opening of the Mebusan Assembly, Foundation of Grand National Assembly of Turkey, Internal Rebellions, the Constitution (Teşkilat-ı Esasiye), Foundation of the Regular Army, İnönü I, Sakarya, Kütahya, Eskişehir Battles, Great Offensive, Treaties during Turkish Independence War, Lausanne Peace Treaty, Abolition of the Sultanate.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Abdulnasır YİNER

Instructors:

Asist Prof.Dr. Abdulnasır YİNER

Assistants:

Recommended Sources

Textbook	:	AZAK, N. Kemal-Mustafa TÜRKER, Atatürk İlkeleri ve İnkılap Tarihi, Derya Kitabevi, 2006, Trabzon.
Resources	:	
Documents	:	Atatürk İlkeleri ve İnkılap Tarihi, N.Kemal AZAK, Mustafa TÜRKER, Derya Kitabevi, 3. Baskı, 2006, Trabzon
Assignments	:	1-YÖK (1995). Atatürk İlkeleri ve İnkılap Tarihi-II, Ankara Yüksek Öğretim Kurulu Yayınları. 2-Komisyon (2009) Atatürk İlkeleri ve İnkılap Tarihi, Ar
Exams	:	

Course Category

Mathmatics and Basic Sciences	:		Education	:	
Engineering	:		Science	:	
Engineering Design	:		Health	:	
Social Sciences	:	30	Field	:	10

Course Content

Week	Topics	Study Materials	Materials
1	Siyasi alanda yapılan inkılaplar (Saltanatın kaldırılması, Ankara'nın başkent oluşu, Cumhuriyetin ilanı ve Halifeliğin kaldırılma		
2	Terakkiperver Cumhuriyet Fırkası'nın kuruluşu, Seyh Sait İsyanı, Takrir-i Sükün yasası ve Atatürk'e suikast teşebbüsü		
3	Serbest Cumhuriyet Fırkası'nın kuruluşu, İzmir mitingi, Fırkanın kapanışı, Menemen ve Bursa olayları		
4	1924 Anayasası, diğer anayasalar, Hukuk alanındaki gelişmeler, Toplumsal hayatın düzenlenmesi ile ilgili inkılaplar ve Türki		
5	Eğitim ve Kültür alanında gerçekleştirilen inkılaplar (Tevhid-i Tedrisat kanunu, Latin harflerinin kabulü, Millet mektepleri, Tü		
6	İzmir İktisat Kongresi, Cumhuriyetin ilk yıllarında ekonomi politikası, 1929 Dünya Ekonomik Buhranı'nın yansımaları olarak Tü		
7	Atatürk döneminde Türk dış politikası (1923-1938 döneminde Türk-İngiliz, Türk-Sovyet, Türk-Fransız, Türk-İtalyan ilişkileri,		
8	Mid-term Exam		
9	Atatürkçü Düşünce Sistemi'nin tanımı, kapsamı, Atatürk İlkeleri /Cumhuriyetçilik, Laiklik, Milliyetçilik, Halkçılık, Devletçilik, İr		
10	Atatürk'ten sonraki Türkiye (İnönü'nün cumhurbaşkanlığı, II. Dünya Savaşı ve Türkiye, Demokrat Parti'nin kuruluşu ve çok		
11	Demokrat Parti'nin iktidar yılları, Türkiye'nin NATO'ya girişi ve 27 Mayıs 1960 askeri müdahalesi		
12	1960'lı ve 70'li yıllar boyunca Türkiye'deki siyasi gelişmeler (1961 Anayasası, Adalet Partisi İktidarı, 12 Mart 1971 muhtırası,		
13	12 Eylül 1980'den günümüze Türkiye'de iç siyaset gelişmeleri (12 Eylül askeri müdahalesinden sonra ülkenin durumu, sivil i		
14	1960'dan günümüze Türkiye'nin dış politikası (Soğuk savaş sürecinde Türkiye, Avrupa birliği ile gelişmeler,		

Course Learning Outcomes

No	Learning Outcomes
C01	Learns the reasons that cause the fall of Ottoman Empire.
C02	Evaluates the results of the innovation movements in the Ottoman Empire.
C03	Understands the importance of awakening of the Turkish Nation that initiated under the leadership of Atatürk.
C04	Adopts the Turkish revolution and Atatürk's principles.
C05	Analyzes the various historical literature on these topics.
C06	Defines the revolution and the relevant concepts with revolution.
C07	Knows and compares the streams of thought in the Ottoman Empire.
C08	Analyzes the results of the treaties signed during the Ottoman period.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

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Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET124 FOOT ANATOMY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET124	FOOT ANATOMY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

Teaching of anatomical structures of the feet of domestic mammals

Teaching Methods and Techniques:

Classification of animals according to the location and the location of flooding by pressing the foot shape, the importance of animal statics foot, the foot and leg of the definition of anatomical structures that make up in animals, the differences foot, domestic mammals leg bones and joints that make up, domestic mammals foot ligament, tendon and related anatomical structures, pets leg bulunan tendo memelilerde vagina and bursae domestic mammals, vessels and nerves of the foot, tab on the properties of equi, equi tab of the live parts, tab of the non-living parts of equi, tab on the properties of ruminant, ruminant tab of the live parts, tab of the non-living parts of ruminant, outpatient surgical practice locations

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Fatma İŞBİLİR

Instructors:

Assistants:

Recommended Sources	
Textbook	: -Dursun N., Veteriner Anatomi-I, Medisan Yayınevi, Ankara, 1994.
Resources	: - Özgüden T., Yıldız B., Veteriner Anatomi, Sınır Sistemi, U.Ü. Vet. Fak. Yayınları, Bursa, 1997.
Documents	: Evcil Hayvanların Anatomi Atlası
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 100

Course Content			
Week	Topics	Study Materials	Materials
1	Classification of animals according to the location and the location of flooding by pressing the foot shape	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar
2	The importance of animal statics foot, the foot and leg of the definition of anatomical structures that make up	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar
3	In animals, the differences foot	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar
4	Domestic mammals leg bones and joints that make up	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar
5	Domestic mammals foot ligament, tendon and related anatomical structures	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar
6	Pets leg bulunan tendo memelilerde vagina and bursae	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar
7	Domestic mammals, vessels and nerves of the foot	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar
8	Tab on the properties of equi	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar
9	Equi tab of the live parts	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar
10	Tab of the non-living parts of equi	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar
11	Tab on the properties of ruminant	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar
12	Ruminant tab of the live parts	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar
13	Tab of the non-living parts of ruminant	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar
14	Outpatient surgical practice locations	Study on the lesson	Dursun N., Veteriner Anatomi-I, Medisar

Course Learning Outcomes	
No	Learning Outcomes
C01	Pets flood mammals animals according to the location of the ground flashes and leg classifies learn the changes occurring in
C02	the front and rear leg of the animal standing in the mechanism that holds the anatomical structures that are effective learns
C03	Learn the differences between animal species-foot
C04	live and dead tissues of ruminant and equine learns tab
C05	make up the foot ligament, bone, cartilage, blood vessels and nerves, and it shows learns

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

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Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET126 PHYSICAL EDUCATION-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET126	PHYSICAL EDUCATION-II	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

"Physical Education and Sports," the science of physical, mental, social, spiritual and psychological care and business efficiency benefits of a higher quality of life and sustainability, and planned to work with the adoption of regular exercise as a lifestyle.

Teaching Methods and Techniques:

Introduction, Aims, and Basic Concepts, Definitions of Physical Education and Sport, Power Generation and Movement, Heart Rate According to Number of Exercise Training Intensity Adjustment, or, The Benefits of Physical Education and Sport, Physical Activity and Risk, High Quality (Health) for Life, "Life Long Sport ", Exercise and Nutrition, Exercise and fluid consumption, exercise prescriptions Use in the Treatment of Diseases, First Aid, First Aid, General Assessment.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Serdar ADIGÜZEL

Instructors:

Assistants:

Recommended Sources	
Textbook	:
Resources	: Nelson, M. E., Rejeski, W. J., Blair, S. N., Duncan, P. W., Judge, J. O., King, A. C., ... Castaneda-Sceppa, C. (2007). Physical activity and public health
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	: 20
Engineering	:	Science	:
Engineering Design	:	Health	: 50
Social Sciences	: 30	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction, Aims and Key Concepts	Course of the study subjects planned to	
2	Definition of Physical Education and Sports	Course of the study subjects planned to	
3	Energy Production and Motion	Course of the study subjects planned to	
4	According to the Heart Rate , the set of Exercise Training Intensity of	Course of the study subjects planned to	
5	Benefits of Physical Education and Sports Physical , mental , spiritual, social and psychological	Course of the study subjects planned to	
6	Benefits of Physical Education and Sports Physical , mental , spiritual, social and psychological	Course of the study subjects planned to	
7	Physical Activity and Risk	Course of the study subjects planned to	
8	Quality (healthy) for Life , " Lifetime Sports "	Course of the study subjects planned to	
9	Exercise and Nutrition	Course of the study subjects planned to	
10	Exercise and Fluid Consumption	Course of the study subjects planned to	
11	Using the treatment of diseases of the Exercise Prescription	Course of the study subjects planned to	
12	first Aid	Course of the study subjects planned to	
13	first Aid	Course of the study subjects planned to	
14	Overall Rating	Course of the study subjects planned to	

Course Learning Outcomes	
No	Learning Outcomes
C01	Graduates will learn the benefits of doing regular sports .

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET102 BIOSTATISTICS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET102	BIOSTATISTICS	3	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim is to enable students to understand the basic statistical concepts and methods used in health sciences, to summarize data with appropriate graphs and tables, and to gain the ability to interpret the results obtained by applying basic hypothesis tests within a scientific framework.

Teaching Methods and Techniques:

These derste students, together with all the basic topics of applied statistics; basic principles of researches and interpretation of the results obtained are aimed to gain knowledge skills and application skills.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Erman GÜLENDAG

Instructors:

Asist Prof.Dr. Erman GÜLENDAG

Assistants:

Recommended Sources	
Textbook	: Spor Sağlık Ve Eğitim Bilimlerinden Örneklerle UYGULAMALI İSTATİSTİK VE GEÇERLİK GÜVENİRLİK SPSS de Çözümleme Adımları İle Birlikte, Deta
Resources	: Sümbüloğlu, K. ve Sümbüloğlu, V. (2019). Biyoistatistik. Hatiboğlu Yayınları.
Documents	: Özdamar, K. (2001). SPSS ile Biyoistatistik. Eskişehir: Kaan Kitabevi, 343-360.
Assignments	:
Exams	: 1 Ara sınav, 1 Yarıyıl Sonu Sınavı

Course Category			
Mathematics and Basic Sciences	: 20	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 80
Social Sciences	:	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to Statistics: Definitions and Basic Concepts	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	
2	Summarization and Frequency Distribution Tables	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	
3	Descriptive Statistics: Placement Measurements and Change Measurements	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	
4	Correlation and Regression Analysis	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	
5	Discrete Distributions: Binomial Distribution and Poisson Distribution	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	
6	Normal Distribution and Z Distribution	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	
7	Sampling Distribution and Hypothesis Control	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	
8	Midterm exam		
9	t Distribution, Single Sample t and Z Test	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	
10	Two independent means and ratio comparisons	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	
11	Confidence Interval Calculation	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	
12	Comparison of two dependent sample averages (paired t test)	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	
13	Chi-square distribution and properties	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	
14	Chi-square test in one way classification	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	
15	Chi-square test in two-way classification	Study of the subject planned to be learn1. Sokal, R. R. and F. J. Rohlf. (1995). B	

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the basic concepts of biostatistics and the types of variables.
C02	describes descriptive statistical methods suitable for data sets.
C03	presents health data using appropriate tabular and graphical methods.
C04	Selects and applies hypothesis tests appropriate to the data structure.
C05	Interpret the results of statistical analysis in accordance with scientific literature.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	13	2	26
Assignments	2	2	4
Presentation	0	0	0
Mid-terms	1	6	6
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	3	3	3	4	2	3	4	3	2	3	4	4	3	3	3	4	3	2
C01	5	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	4	4
C02	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
C03	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
C04	4	2	2	4	4	4	5	5	3	3	3	1	2	2	3	3	3	3	4
C05	5	3	3	3	3	4	4	4	4	5	5	5	3	3	4	4	4	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET108 BIOCHEMISTRY-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET108	BIOCHEMISTRY-I	5	4	4

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The objective of this course is to provide students with the fundamental knowledge of biochemistry necessary to identify the properties and functions of molecules that play a role in sustaining life, thereby laying the groundwork for subsequent theoretical and clinical courses.

Teaching Methods and Techniques:

The content of this course consists of basic biochemistry—covering topics such as biophysical chemistry, minerals, carbohydrates, proteins, lipids, nucleic acids, and enzymes—as well as general laboratory knowledge.

Prerequisites:

Course Coordinator:

Prof.Dr. KIVANÇ İRAK

Instructors:

Prof.Dr. Kıvanç İRAKProf.Dr. Mahire BAYRAMOĞLU AKKOYUN

Assistants:

Research Assist. Zahide Yusra YILDIZ

Recommended Sources	
Textbook	: 1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M, Başpınar N, Tiftik MA (2000)
Resources	: BioCHEMİSTRY, Konya.
Documents	: 2. Ası T. (1996) Tablolarla Biyokimya. Cilt 1ve II. Nobel Tıp Kitabevleri, İstanbul.
Assignments	: 3. Karagül H, Altıntaş A, Fidancı UR, Sel T (1999) Temel
Exams	: BioCHEMİSTRY applications, Medisan, Ankara. Mert N. (1996). Veteriner Klinik Biyokimya, Uludağ Üniversitesi Güclendirme Vakfı Yayını, Bursa,"1.Ersoy E, Baysu N (1986) Biyokimya Ders Kitabı, /

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 100

Course Content			
Week	Topics	Study Materials	Materials
1	Definition of carbohydrates, classification, monosaccharides and derivatives	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
2	Disaccharides, polysaccharides and their derivatives	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
3	Carbohydrate experiments	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
4	Lipids, definition, classification, fatty acids	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
5	Steroids, cholesterol, sphingolipid, phospholipid, terpenes,bile acids	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
6	Lipid assays	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
7	Definition of protein, Classification of the amino acids, reactions	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
8	Midterm exam		
9	Peptide bond, classification of proteins, structure of proteins, individual investigations,hemoglobins, porphyrins	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
10	Protein experiments	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
11	Nükleik asitler definition, Reviews of the structure of Dna and Rna	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
12	Classification of enzymes, the definition, Factors affecting the activity of enzymes	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
13	Activators and inhibitors, isoenzymes and enzyme assays	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
14	Vitamins, definition and classification, water dissolving vitamins	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
15	Fat-soluble vitamins, coenzymes	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
16	Midterm exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the properties of the major biomolecules constituting the chemical structure of living organisms.
C02	Compares the structures and functions of proteins, carbohydrates, lipids, and nucleic acids.
C03	Analyzes the mechanisms of enzyme action.
C04	Evaluates the biochemical functions of vitamins and biological membranes.
C05	Relates biochemical processes to the physiological functioning of the animal organism.
C06	Interprets biochemical data using a scientific approach.
C07	Evaluates current scientific knowledge in the field of biochemistry.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	25	25
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	25	25
Total Work Load			120
ECTS Credit of the Course			4

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	4	4	5	5	4	4	3	3	5	2	5	2	2	4	5	5	5
C01	5	5	3	3	5	5	3	3	2	2	4	2	3	2	2	3	4	3	4
C02	5	5	4	4	5	5	3	4	3	2	4	2	4	2	2	4	4	4	4
C03	4	4	5	4	5	5	4	4	3	3	5	2	5	2	2	4	5	5	5
C04	4	4	4	4	5	5	4	4	3	3	5	2	4	2	2	4	4	4	4
C05	4	4	5	4	5	5	5	4	4	4	2	5	2	2	4	5	5	5	5
C06	4	4	4	4	5	5	4	4	3	4	5	2	5	2	4	5	5	5	5
C07	5	5	4	4	4	4	4	4	3	3	5	2	4	2	2	5	4	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET134 ENVIRONMENTAL PROTECTION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET134	ENVIRONMENTAL PROTECTION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

In this course; it is aimed for students to understand the concepts of ecological balance and environmental pollution, evaluate the environmental impacts of animal production enterprises, and apply waste management, sustainability, and environmental protection strategies within the framework of veterinary medicine activities.

Teaching Methods and Techniques:

The course covers the types of environmental pollution, management and disposal methods of animal wastes, environmental legislation, biogas production, and the relationship between global warming and the control of livestock-originated greenhouse gases.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Prof.Dr. Tekin ŞAHİN

Assistants:

Research Assist. mahsum Başak

Recommended Sources	
Textbook	: K.Yıldız, Ş.Sipahioğlu, M. Yılmaz Çevre Bilimi ve Eğitimi
Resources	: K.Yıldız, Ş.Sipahioğlu, M. Yılmaz Çevre Bilimi ve Eğitimi,MEGEP, Çevre Koruma
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	:	Health	: 100
Social Sciences	: 0	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Fundamentals of Environmental Protection, Concepts of Ecology and Ecosystem		
2	Types of Environmental Pollution: General Causes of Air, Water, and Soil Pollution		
3	Environmental Impacts and Resource Consumption of Livestock Enterprises		
4	Relationship Between Livestock-Originated Greenhouse Gases, Global Warming, and Climate Change		
5	Waste Management and Planning in Integrated Livestock Enterprises		
6	Evaluation of Solid Animal Wastes: Manure Storage and Composting		
7	Liquid Animal Wastes, Treatment Methods, and Protection of Water Resources		
8	Midterm		
9	Renewable Energy Sources: Biogas Production from Animal Wastes		
10	Medical Waste Management and Disposal Protocols in Veterinary Clinics		
11	Threats of Drug Residues and Disinfectants to Environmental Health in Livestock		
12	Sustainable Livestock: Carbon and Water Footprint Management		
13	Environmental Legislation: Environmental Laws in Türkiye and EU, EIA Reports		
14	"One Health" Approach and the Role of Environmental Protection		
15	Field Trip / Examination of a Sample Biogas or Waste Treatment Plant		
16	FINAL EXAM		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines basic ecology, ecosystem balance, and key factors causing environmental pollution.
C02	Analyzes the environmental impacts of solid, liquid, and gaseous wastes originating from livestock enterprises.
C03	Conducts safe disposal processes of veterinary clinical and medical wastes in accordance with legislation.
C04	Selects and designs appropriate recycling methods for the recovery of animal wastes (compost, biogas, etc.).
C05	Develops strategies to reduce carbon and water footprints within the framework of sustainable livestock practices.
C06	Applies the legal requirements of the Environmental Law and relevant veterinary public health legislation at clinical and enterprise levels.
C07	Advocates scientifically for the correlation between human, animal, and environmental health within the framework of the "One Health" approach.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	13	2	26
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	3	3
Total Work Load			59
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
C01	2	4	2	3	2	4	2	1	2	3	2	4	1	2	3	2	4	2	3
C02	2	4	5	5	2	3	2	4	2	3	2	5	4	2	3	2	1	4	2
C03	2	3	2	1	2	3	2	5	4	1	2	3	2	5	4	1	2	3	2
C04	5	4	1	2	3	2	5	4	1	2	3	2	5	4	1	2	3	2	1
C05	5	4	4	1	2	3	2	3	1	2	1	4	2	1	3	3	1	4	1
C06	2	3	2	5	4	1	2	3	2	5	4	1	2	3	3	2	5	4	1
C07	2	3	2	2	5	4	1	2	3	2	2	5	4	3	1	2	2	3	2

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

DOY102 DIGITAL LITERACY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	DOY102	DIGITAL LITERACY	0	2	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The goal of the course is to enable students to recognize the digital technologies, digital contexts and means and use them efficiently. Constructing, editing, sharing, and evaluating knowledge through using these wherewithals form the topic of this course. At the end of lesson, students will be able to have the authority of these digital technologies, and have the awareness and critical thinking abilities.

Teaching Methods and Techniques:

Digital technologies

Prerequisites:**Course Coordinator:**

Asist Prof.Dr. GÜNSEL KIRMANAsist Prof.Dr. GÜNSEL KIRMAN

Instructors:**Assistants:**

Recommended Sources	
Textbook	: -Understanding digital literacies, A practical introduction, Rodney H. Jones, Christoph A. Hafner, Routledge, 2012
Resources	: -Digital literacy: A primer on media, identity and the evolution of technology, Susan Wiesinger, Ralph Beliveau,
Documents	: -Digital literacy: A primer on media, identity and the evolution of technology, Susan Wiesinger, Ralph Beliveau,
Assignments	: textbooks, and digital media
Exams	: yok vize ve final

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	: 100	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	introduction to digital literacy		
2	Basic concepts		
3	Operating systems		
4	Digital tools		
5	Digital platforms		
6	Example applications		
7	Mobile culture		
8	Middle Exam		
9	Convergence		
10	Big Data		
11	Open Data		
12	Digital democracy		
13	Collective intelligence		
14	Digital divide		
15	Evaluation		

Course Learning Outcomes	
No	Learning Outcomes
C01	Alan ile ilgili kavramları ve kavramlar arası ilişkileri kavrar
C02	students can judge the cultural, social, and technological developments based on the communication and new media issues.
C04	Alan ile ilgili çalışmalarda kullanacağı alet ve ekipmanı tanıır, nasıl kullanacağını bilir
C11	İletişim, yeni medya, sanat ve kültür başta olmak üzere alanları ile ilgili her türlü kavramı tanımlayabilecek

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	16	1	16
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	0	0
Total Work Load			16
ECTS Credit of the Course			1

Course Contribution To Program	
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant	

	P01
All	1
C01	1
C02	1
C04	1
C11	1

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET142 TISSUE PREPARATION TECHNIQUES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET142	TISSUE PREPARATION TECHNIQUES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with both theoretical and practical knowledge about the techniques used in preparing biological tissues for histological examination, including fixation, processing, embedding, sectioning, and staining.

Teaching Methods and Techniques:

during week 1, the course will be introduced and the importance of histology and tissue preparation will be emphasized. In week 2, laboratory safety, chemicals, and associated risks will be addressed, and in week 3, tissue fixation procedures and the properties of fixatives will be examined. Week 4 will cover tissue processing steps, including dehydration and clearing methods, while in week 5, embedding techniques, specifically paraffin and freezing methods, will be demonstrated in detail. During week 6, types of microtomes will be introduced and sectioning principles will be taught through practical applications. Week 7 will consist of the midterm exam and evaluation. In week 8, mounting sections on slides, drying, and preparation steps will be covered, and in week 9, basic staining techniques, particularly Hematoxylin–Eosin (H&E) staining, will be discussed. Week 10 will focus on special staining methods, such as PAS and Trichrome, while in week 11, common staining errors and troubleshooting strategies will be reviewed. In week 12, cover slipping and storage of slides will be demonstrated, and during week 13, prepared slides will be evaluated and examined under the microscope. The course will conclude in week 14 with a general review and preparation for the final exam.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Banu KANDİL

Instructors:

Associate Prof.Dr. Banu KANDİLAsist Prof.Dr. Merve PEKİNCE ÖZÖNER Asist Prof.Dr. Günsel KIRMAN

Assistants:

Recommended Sources	
Textbook	: Lecture Slides and Presentation
Resources	: Özer, A. (2020). Veteriner özel histoloji [Veterinary special histology] (3rd ed.). Dora.,Junqueira's Basic Histology: Text & Atlas – Anthony L. Mesch
Documents	: Ders notları ve sunumları
Assignments	:
Exams	:

Course Category	
Mathematics and Basic Sciences	Education :
Engineering	Science :
Engineering Design	Health : 100
Social Sciences	Field :

Course Content		
Week	Topics	Study Materials Materials
1	Lab safety instructions, preliminary reading notes	Review laboratory safety rulesHandling i
2	Course introduction, importance of histology and tissue preparation	Revise basic histology conceptsCell and
3	Tissue fixation procedures and fixative properties	Pre-read materialsInstructor-provided nDers Sunumu
4	Tissue processing (dehydration – clearing)	Lab safety instructions, preliminary read
6	Embedding techniques (paraffin and freezing methods)	Revise basic histology conceptsCell and
7	Midterm exam / evaluation	
8	Mounting sections on slides, drying, preparation steps	Histological sections and microscope stri
9	Basic staining techniques, Hematoxylin–Eosin (H&E)	Lab safety instructions, preliminary read
10	Special staining methods (PAS, Trichrome, etc.)	Lab safety instructions, preliminary read
11	Staining errors and troubleshooting	Lab safety instructions, preliminary read
12	Cover slipping and storage of slides	Lab safety instructions, preliminary read
13	Slide evaluation under microscope	Lab safety instructions, preliminary read
14	Special dyeing techniques (alcian blue, oil red)	Ozer, A. (2020). Veteriner özel histoloji
15	General review and final exam preparation	Lab safety instructions, preliminary read
16	final exam	

Recommended Optional Programme Components
VET257 HISTOLOGICAL TISSUE PREPARATION AND STAINING TECHNIQUES

Course Learning Outcomes	
No	Learning Outcomes
C01	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
C02	Knows basic food analysis methods, taking samples, analysis and evaluate reports
C03	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
C04	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
C05	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
C06	Contains up to date information in the field of textbooks, magazines and follow the web site
C07	Understand the relationships between concepts and concepts related to the field
C08	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
	All surgical interventions in the field of scientific methods and meticulous
	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
	In animal breeding and feeding areas will have theoretical and practical knowledge
	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses

P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	2	14	28
Hours for off-the-c.r.stud	1	14	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	3	4	4	1	4	2	1	1	2	3	1	3	2	1	2	1	4	5
C01	5	3	4	4	1	3	1	1	1	1	2	2	3	1	1	1	1	3	4
C02	4	3	5	4	1	5	2	1	2	1	2	1	4	1	1	1	1	5	5
C03	4	2	4	5	1	4	1	1	1	1	2	1	3	1	1	1	1	4	5
C04	3	2	3	5	1	3	1	1	1	1	2	1	2	1	1	1	1	3	5
C05	4	4	5	5	1	4	2	2	1	1	2	1	5	1	1	1	2	4	5
C06	5	4	5	5	1	4	2	2	1	1	3	1	5	1	1	1	1	4	5
C07	3	3	2	4	2	3	2	2	1	4	4	2	2	1	3	1	2	2	4
C08	3	3	3	3	2	3	2	2	1	4	5	1	3	1	2	1	2	3	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET140 EXOTIC ANIMATED ANIMALS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET140	EXOTIC ANIMATED ANIMALS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

It gives information about the exotic animal anatomy.

Teaching Methods and Techniques:

In the course of exotic animal anatomy, the internal organs of the exotic animals and their relations with the neighborhood are given information to assist in clinical approaches.

Prerequisites:

Course Coordinator:

Instructors:

Prof.Dr. Mehmet KILINÇ

Assistants:

Recommended Sources	
Textbook	: O'Malley B. Clinical Anatomy and Physiology of Exotic Species, Structure and Function of Mammals, Birds, Reptiles, and Amphibians, 1st edn. Elsevier
Resources	: McLaughlin C.A.and Chiasson RB; Laboratory Anatomy of the Rabbit. Third Ed., McGraw Hill, New York, 1990 Hebel R and Stromberg MW; Anat
Documents	: 1
Assignments	: 0
Exams	: 1

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 0
Social Sciences	: 0	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	General Anatomy of Reptiles I		
2	General Anatomy of Reptiles II		
3	General Anatomy of Turtles I		
4	General Anatomy of Turtles II		
5	General Anatomy of Lizards I		
6	General Anatomy of Lizards 2		
7	General Anatomy of Snakes I		
8	midterm exams		
9	General Anatomy of Snakes II		
10	General Anatomy of exotic birds		
11	General Anatomy II of exotic birds		
12	Exotic birds General Anatomy III		
13	General Anatomy of the Rabbit		
14	General Anatomy of Rodents		
15	Final exams		

Course Learning Outcomes	
No	Learning Outcomes
C01	scientific thinking and stating it freely,hypothesis creating,criticising skills

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET122 EXENTERATION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET122	EXENTERATION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach exenteration techniques and to enable students to gain knowledge and practical skills in the removal, evaluation, and educational preparation of organs while preserving anatomical integrity.

Teaching Methods and Techniques:

This course covers fundamental dissection techniques used in exenteration procedures, removal of organs while preserving anatomical relationships, specimen preparation methods, laboratory safety, and ethical principles. In addition, the topographic anatomy of organ systems is examined through practical applications.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Fatma İŞBİLİR

Instructors:

Associate Prof.Dr. Fatma İŞBİLİR Associate Prof. Dr. Barış Can GÜZEL

Assistants:

Research Assist. Muhammed Zahid ATLI

Recommended Sources	
Textbook	: Getty, R. (1975). Sisson and Grassmans the Anatomy of the Domestic Animals, vol. 1, 2, 5th ed., W. B. Saunders Co., Philadelphia. 2. Dursun, N.(2017). Veterinary Anatomy, 5th Edition, Elsevier, 2017.
Resources	: Dyce, K.M., Sack, W.O., Wensing, C.J.G. Textbook of Veterinary Anatomy, 5th Edition, Elsevier, 2017.
Documents	: Fossum, T.W. Small Animal Surgery, 5th Edition, Elsevier, 2019.
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 100
Social Sciences	: 0	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Definition and importance of exenteration	Course of the study subjects planned to 1. Getty, R. (1975). Sisson and Grassma	
2	Localization of thoracic organs	Course of the study subjects planned to 1. Getty, R. (1975). Sisson and Grassma	
3	Localization of abdominal organs	Course of the study subjects planned to 1. Getty, R. (1975). Sisson and Grassma	
4	Opening of thoracic wall and exenteration of lungs	Course of the study subjects planned to 1. Getty, R. (1975). Sisson and Grassma	
5	Exenteration of heart	Course of the study subjects planned to 1. Getty, R. (1975). Sisson and Grassma	
6	Opening of abdominal wall	Course of the study subjects planned to 1. Getty, R. (1975). Sisson and Grassma	
7	Exenteration of stomach	Course of the study subjects planned to 1. Getty, R. (1975). Sisson and Grassma	
8	Mid exam		
9	Exenteration of spleen	Course of the study subjects planned to 1. Getty, R. (1975). Sisson and Grassma	
10	Exenteration of small intestine	Course of the study subjects planned to 1. Getty, R. (1975). Sisson and Grassma	
11	Preparation, preservation, and exhibition of organ specimens	1. Getty, R. (1975). Sisson and Grassma	
12	Exenteration of large intestine	Course of the study subjects planned to 1. Getty, R. (1975). Sisson and Grassma	
13	Exenteration of renes, ureters and urinary bladder	Course of the study subjects planned to 1. Getty, R. (1975). Sisson and Grassma	
14	Exenteration of uterus	Course of the study subjects planned to 1. Getty, R. (1975). Sisson and Grassma	
15	General review and practical evaluations	Course of the study subjects planned to 1. Getty, R. (1975). Sisson and Grassma	
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the fundamental anatomical concepts and dissection principles used in exenteration procedures.
C02	Explains the anatomical relationships of organ systems and exenteration techniques.
C03	Applies appropriate dissection and preparation techniques in exenteration procedures.
C04	Removes and evaluates organs while preserving their anatomical integrity.
C05	Analyzes anatomical specimens obtained during the exenteration process and uses them for educational purposes.
C06	Acts in accordance with ethical principles, biosafety, and laboratory safety rules during exenteration procedures.
C07	Expresses processes related to exenteration procedures verbally and in writing using scientific terminology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
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P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			62
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	5	4	4	4	3	3	4	4	4	4	5	5	4	4	4	5
C01	5	5	5	5	4	4	3	5	5	5	4	4	4	3	5	4	5	4	4
C02	3	3	5	4	5	5	5	3	2	5	4	5	5	3	5	4	4	3	5
C03	4	4	4	3	5	4	4	4	5	5	4	4	4	3	3	3	4	5	5
C04	4	5	4	3	5	4	5	4	4	4	5	5	3	4	5	4	5	4	3
C05	3	5	4	4	4	4	5	5	5	5	3	4	4	4	5	5	3	5	5
C06	4	4	4	4	5	5	3	5	4	4	5	4	3	5	4	5	4	5	5
C07	4	5	3	4	5	5	5	4	5	3	5	4	5	3	5	4	5	3	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET114 EPIDEMIOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET114	EPIDEMIOLOGY	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to enable students to explain the distribution, occurrence, and spread of diseases at the population level and interpret basic epidemiological measures.

Teaching Methods and Techniques:

This course covers basic concepts of epidemiology, determinants of disease, transmission routes, disease measures, and control methods.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Özgül GÜLAYDIN

Instructors:

Asist Prof.Dr. Muazzez YEŞİLYURT Associate Prof.Dr. Özgül GÜLAYDIN Asist Prof.Dr. Songül ÖTKÜN

Assistants:

Research Assist. Mustafa Berkan GÜL

Recommended Sources	
Textbook	: Veteriner Epidemiyoloji. Hasan Hüseyin Hadimli. Nobel Akademik Yayıncılık.
Resources	: Thrusfield, M. (n.d.). Veterinary epidemiology. John Wiley & Sons.
Documents	:
Assignments	:
Exams	:

Course Category			
Mathmatics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Definition and purpose of epidemiology	Research on the subject	Veteriner Epidemiyoloji. Hasan Hüseyin
2	Branches of epidemiology and basic concepts		Veteriner Epidemiyoloji. Hasan Hüseyin
3	Determinants of disease – host factors		Veteriner Epidemiyoloji. Hasan Hüseyin
4	Determinants of disease – agent factors		Veteriner Epidemiyoloji. Hasan Hüseyin
5	Determinants of disease – environmental factors		Veteriner Epidemiyoloji. Hasan Hüseyin
6	Measures of disease – basic concepts (ratio, proportion, rate)		Veteriner Epidemiyoloji. Hasan Hüseyin
7	Prevalence and incidence		Veteriner Epidemiyoloji. Hasan Hüseyin
8	Midterm Exam		
9	Transmission routes and mechanisms of spread		Veteriner Epidemiyoloji. Hasan Hüseyin
10	Disease in populations		Veteriner Epidemiyoloji. Hasan Hüseyin
11	Spatial and temporal distribution		Veteriner Epidemiyoloji. Hasan Hüseyin
12	Ecological approach – basic concepts		Veteriner Epidemiyoloji. Hasan Hüseyin
13	Ecological interactions and disease relationships		Veteriner Epidemiyoloji. Hasan Hüseyin
14	Health schemes		Veteriner Epidemiyoloji. Hasan Hüseyin
15	Disease control and eradication		Veteriner Epidemiyoloji. Hasan Hüseyin
16	Final exam		Veteriner Epidemiyoloji. Hasan Hüseyin

Recommended Optional Programme Components	
VET111 VETERINARY TERMINOLOGY	
VET228 MICROBIOLOGY-I	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains basic concepts of epidemiology
C02	Classifies transmission routes of diseases
C03	Analyzes disease determinants
C04	Interprets epidemiological measures
C05	Evaluates disease control methods

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	0	0	0
Assignments	1	1	1
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			17
ECTS Credit of the Course			1

Course Contribution To Program															
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant															
	P01	P02	P03	P05	P06	P07	P09	P11	P13	P14	P15	P17	P18	P19	
All	2	2	1	1	2	2	1	1	1	2	2	1	1	1	
C01	3	2	1		1	1				1					
C02	2	2	1	1	2	2			1	1	1				
C03	2	2	2	1	2	3	1		1	2	2		1	1	
C04	2	3	1	1	2	2	1		1	1	1	1		1	
C05	1	2	1	2	2	3	1	1	1	2	2		1	1	

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET110 PHYSIOLOGY-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET110	PHYSIOLOGY-I	5	4	4

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to provide an introduction to physiology and to teach fundamental concepts of cell physiology, body fluids and buffer systems, blood physiology, and nerve and muscle physiology.

Teaching Methods and Techniques:

This course begins with an introduction to physiology and covers the fundamental principles of cell physiology. It addresses body fluids and the structure and function of buffer systems in the human body. In addition, the composition, functions, and physiological properties of blood are examined. The course also includes basic concepts of nervous system physiology and muscle physiology, with emphasis on neuromuscular transmission and muscle contraction mechanisms.

Prerequisites:

Course Coordinator:

Prof.Dr. HURREM TURAN AKKOYUN

Instructors:

Prof.Dr. HURREM TURAN AKKOYUN

Assistants:

Research Assist. Dr. Kübra GEÇMEZ CAHAN

Recommended Sources

Textbook	:	1. Noyan, A. (2011). Physiology in life and medicine. Meteksan.
Resources	:	2. Yildiz, S. (Ed.). (2004). Dukes' veterinary physiology (12th ed.). Medipres Publishing.
Documents	:	Reece, W. O. (Ed.). (2004). Dukes veterinary physiology (S. Yildiz, Trans. Ed.; 12th edition). Medipres.,Noyan, A. (2011). Physiology in life and me
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction to physiology; the definition, scope, and fundamental concepts of physiology are covered.	Students are recommended to acquire ir1.	Noyan, A. (2011). Physiology in life ai
2	Cell physiology; the basic structure of the cell, the functions of cellular organelles, and fundamental physiological processes	Students are recommended to acquire ir1.	Noyan, A. (2011). Physiology in life ai
3	Regulation of body fluids; body fluid compartments, fluid balance, and homeostatic mechanisms are covered.	Students are recommended to acquire ir1.	Noyan, A. (2011). Physiology in life ai
4	Hematology; the composition of blood, blood cells, and the physiological properties of blood are covered.	Students are recommended to acquire ir1.	Noyan, A. (2011). Physiology in life ai
5	Hematology and coagulation mechanism; the blood clotting process, coagulation factors, and hemostasis mechanisms are	Students are recommended to acquire ir1.	Noyan, A. (2011). Physiology in life ai
6	Blood groups; blood group systems, the ABO and Rh systems, blood transfusion, and compatibility principles are covered.	Students are recommended to acquire ir1.	Noyan, A. (2011). Physiology in life ai
7	Cardiovascular physiology; the structure and function of the heart, blood circulation, the vascular system, and the regulato	Students are recommended to acquire ir1.	Noyan, A. (2011). Physiology in life ai
8	The midterm examination will be conducted.		
9	Cardiovascular physiology (continued); the cardiac cycle, cardiac output, blood pressure, and regulatory mechanisms of cir	Students are recommended to review b1.	Noyan, A. (2011). Physiology in life ai
10	Introduction to nervous system physiology; the structure of nerve cells, nerve impulse transmission, and fundamental proc	Students are recommended to acquire ir1.	Noyan, A. (2011). Physiology in life ai
11	Synapse; excitatory and inhibitory synapses, neurotransmitter substances, and reflex mechanisms are covered.	Students are recommended to acquire ir1.	Noyan, A. (2011). Physiology in life ai
12	Central nervous system physiology; the brainstem, cranial nerves, diencephalon (hypothalamus and thalamus), reticular fo	Students are recommended to acquire ir1.	Noyan, A. (2011). Physiology in life ai
13	Introduction to muscle physiology; the structure of muscle tissue, types of muscles, and the basic principles of muscle con	Students are recommended to acquire ir1.	Noyan, A. (2011). Physiology in life ai
14	Muscle physiology (continued); muscle contraction mechanisms and skeletal muscle fatigue are covered.	Students are recommended to review b1.	Noyan, A. (2011). Physiology in life ai
15	Muscle metabolism and muscle rigidity; processes of muscle metabolism and muscle rigidity (rigor) are covered.	Students are recommended to review b1.	Noyan, A. (2011). Physiology in life ai
16	The final examination is conducted.		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the basic structures and functions of buffer systems, blood, the nervous system, muscles, and kidneys.
C02	Explains the structures, types, and physiological functions of erythrocytes and leukocytes.
C03	Interprets the processes of pH regulation, nerve impulse transmission, muscle contraction, and urine formation using physiological diagrams, tables, and data.
C04	Compares the basic characteristics of blood cells, nerve tissue, and muscle tissue and identifies their functional differences.
C05	Evaluates the roles of different physiological systems in maintaining homeostasis and discusses the interactions among physiological processes from a holistic perspective.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
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P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	25	25
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	25	25
Total Work Load			120
ECTS Credit of the Course			4

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	3	3	3	2	2	3	2	2	2	2	2	2	3	3	3	3	3
C01	4	2	4	2	2	2	3	2	2	2	3	3	2	2	2	2	3	3	3
C02	3	2	4	2	2	3	3	3	2	2	3	3	3	2	2	2	3	3	3
C03	4	3	4	3	2	3	3	2	3	2	3	3	2	2	2	2	2	3	3
C04	3	2	3	2	3	2	3	3	2	2	3	2	3	2	2	2	3	3	3
C05	5	3	4	2	2	3	3	2	2	2	3	3	2	2	2	2	2	3	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET128 VISUAL ARTS TEACHING-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET128	VISUAL ARTS TEACHING-II	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

Students develop their understanding of art and art overview

Teaching Methods and Techniques:

Lectures and practice. Why are we doing pictures. The materials used in the picture. Study points. Line Study. Tissue work. Lavin work. Color Pass and Color Wheel. Drawing design work. Perspective work. Perspective work

Prerequisites:

Course Coordinator:

Prof.Dr. Nihat ŞINDAK

Instructors:

Assistants:

Recommended Sources	
Textbook	: Lecture notes, published several books on Art and Photos
Resources	: Resim -I- (Dr.Mümtaz Işingör,Prof.Dr.Erol Eti,Prof.Dr.Mustafa Aslier)Temel Sanat Eğitimi (Nevide Gökyayın)Temel Sanat Eğitimi (Oya Abacı),Temel
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	: 20
Engineering	:	Science	:
Engineering Design	: 20	Health	:
Social Sciences	:	Field	: 60

Course Content			
Week	Topics	Study Materials	Materials
1	What is art? Artist görevleri.sanat effects on society.		Art and books published over the picture
2	Why are we doing photos?		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
3	The materials used in the picture		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
4	Study Destinations		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
5	Line Work		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
6	Texture work		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
7	Texture work		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
8	Lavin study		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
9	Crossing Circle of Color and Color		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
10	Crossing Circle of Color and Color		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
11	Drawing pattern work		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
12	Drawing pattern work		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
13	Perspective studies		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E
14	Perspective studies		Picture -I- (Dr.Mümtaz Işingör,Prof.Dr.E

Course Learning Outcomes	
No	Learning Outcomes
C01	From classical to contemporary drawing and painting materials to define.
C02	The use of materials and techniques to distinguish the differences.
C03	Fix materials and techniques appropriate to the purpose to know the material.
C04	In visual contrast and balance in the composition of the principles will recognize the relationship.
C05	Develop an idea conceptually appropriate materials, techniques and pictorial language to express the artistic sense.
C06	Photos and understanding of the importance of the artist.
C07	Brushes, water-based paints and oil-based paints stronger technical skills which will show dominance.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows; located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	11	11
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	21	21
Total Work Load			60
ECTS Credit of the Course			2

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET112 HISTOLOGY-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET112	HISTOLOGY-I	4	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

Histology I aims to provide an understanding of the structural and functional characteristics of cells and tissue types at the microscopic level, and to enable students to develop the ability to distinguish these tissues under the light microscope, interpret them, and evaluate them within the framework of structure–function relationships.

Teaching Methods and Techniques:

This lesson covers the general structure of the cell, cell division, types of intercellular junctions, and mechanisms of cellular interactions. The structural and functional characteristics of epithelial, connective, cartilage, bone, blood, and nervous tissues are evaluated. In addition, practical sessions are conducted to enable the differentiation of these tissues under the light microscope, and the findings obtained are interpreted within the framework of structure–function relationships.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Banu KANDİL

Instructors:

Associate Prof.Dr. Banu KANDİLAsist Prof.Dr. Günsel KirmanAsist Prof.Dr. Merve Pekince Özöner

Assistants:

Recommended Sources

Textbook	: 1.	Junqueira LC, Carneiro J (2005). Basic Histology Text ? Atlas.McGraw-Hill, USA.
Resources	: 2.	Sağlam, M., Aşti, R. N., & Özer, A. (2001). Genel Histoloji, Yorum Printing, Ankara.
Documents	: 3.	Samuelson DA (2007). Textbook of Veterinary Histology. Elsevier, China
Assignments	: 4.	Ross, M. H., & Pawlina, W. (2006). Histology: A Text and Atlas. Lippincott Williams & Wilkins, USA.
Exams	: 5.	Tanyolaç, A. (1999). Özel Histoloji. Yorum Printing and Publishing Industry Company, Ankara.
	: 6.	Özer. A. (2008). Veteriner Özel Histoloii. Nobel Publishinga. İstanbul

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Genel giriş, hücrenin tanımı ve sitoplazma		
2	Membranous organelles (endoplasmic reticulum, Golgi apparatus,lysosomes, mitochondria)		
3	Thread-like organelles (centrosome, spindle fibers)		
4	Nucleus, molecular structures of nucleic acids, sex chromatin, and nucleolus		
5	Types of cell division and cell differentiation.		
6	Epithelial tissue		
7	Connective tissue cells		
8	Exam		
9	Connective tissue fibers		
10	Cartilage tissue		
11	Bone tissue		
12	Blood tissue		
13	Blood tissue		
14	Muscle tissue		
15	Nervous tissue		
16	Exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the structural components of the cell and the functions of organelles
C02	Interprets nuclear structure, nucleic acids and mechanisms of cell division
C03	Classifies the cellular and extracellular components of epithelial and connective tissues.
C04	Compares the histological characteristics of cartilage, bone and blood tissues.
C05	Analyzes the structure–function relationships of muscle and nervous tissues.
C06	Distinguishes and evaluates basic tissue types in histological specimens.
C07	Applies scientific observation and evaluation approaches in histological examinations.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
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P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	3	3
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	3	3
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	5	3	3	3	2	2	1	2	1	4	1	2	1	4	4	5
C01	5	4	5	4	2	2	2	1	1	1	1	1	3	1	1	1	3	3	5
C02	5	4	5	4	2	2	2	1	1	1	1	1	3	1	1	1	3	3	5
C03	5	4	5	5	3	3	3	2	2	1	2	1	4	1	2	1	4	4	5
C04	5	4	5	5	4	3	3	2	2	1	2	1	4	1	2	1	4	4	5
C05	5	4	5	4	3	3	3	2	2	1	2	1	5	1	2	1	4	4	5
C06	5	4	5	5	3	4	4	2	2	1	2	1	5	1	2	1	5	5	5
C07	5	4	4	5	3	4	4	2	2	1	3	1	4	1	2	1	5	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET138 FIRST AID					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET138	FIRST AID	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

In this course; it is aimed for students to gain basic and practical first aid approaches to be performed prior to professional veterinary intervention in order to save lives of animals in emergencies, prevent worsening of the condition, and facilitate recovery.

Teaching Methods and Techniques:

The course covers the basic principles of first aid, initial interventions in emergencies such as hemorrhages, fractures, poisonings, burns, and drowning, and basic resuscitation (CPR) techniques.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Prof.Dr. Tekin ŞAHİN

Assistants:

Research Assist. mahsum Başak

Recommended Sources	
Textbook	: "BASIC FIRST AID PRACTICES TRAINING BOOK", H. Fazıl İNAN, Zülfinaz KURT, İlknur KUBİLAY, ANKARA 2011
Resources	: "BASIC FIRST AID PRACTICES TRAINING BOOK", H. Fazıl İNAN, Zülfinaz KURT, İlknur KUBİLAY, ANKARA 2011
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Basic applications of first aid		
2	First and second evaluation		
3	Performs basic cardiopulmonary resuscitation (CPR) on an animal with respiratory or cardiac arrest.		
4	Basic life support in children and infants		
5	First aid in respiratory tract obstruction		
6	External and internal bleeding		
7	Wound and wound types		
8	Midterm		
9	First aid in fractures, dislocations and sprains of upper extremity		
10	First aid in regional injuries, head and spinal fractures		
11	First aid in fractures, dislocations and sprains of hip and lower extremities		
12	First aid in diseases requiring urgent care		
13	Poisoning, heat stroke, burns and freezing		
14	Emergency transport techniques Fast transport techniques in short distance		
15	First aid for drowning		
16	FINAL EXAM		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the basic principles, objectives, and legal/ethical boundaries of first aid.
C02	Rapidly assesses the vital signs (pulse, respiration, CRT, etc.) of an animal in an emergency.
C03	Performs basic cardiopulmonary resuscitation (CPR) on an animal with respiratory or cardiac arrest.
C04	Manages appropriate tourniquet, pressure bandage, and packing techniques in external hemorrhages.
C05	Selects temporary immobilization methods before transporting the patient in cases of fractures, dislocations, and sprains.
C06	Identifies correct decontamination and stabilization steps in environmental emergencies such as toxic substance exposure, heatstroke, and frostbite.
C07	Applies restraint techniques with a sense of responsibility to ensure the safety of both the animal and oneself during first aid.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			30
ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
C01	3	3	3	2	1	1	2	3	2	4	5	4	2	3	2	5	4	5	4
C02	2	3	2	5	4	2	3	2	5	4	2	3	2	5	4	1	1	3	2
C03	3	2	2	3	2	3	5	4	4	1	2	3	3	2	4	2	2	3	2
C04	2	3	2	5	5	4	1	3	2	3	2	5	5	4	3	5	2	3	3
C05	2	2	4	3	2	3	2	4	5	2	1	4	1	3	2	5	4	1	1
C06	2	3	2	5	4	2	3	3	2	5	4	5	4	2	3	2	5	4	5
C07	2	5	4	2	3	3	2	5	4	2	3	3	2	5	4	2	3	3	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

ING102	ENGLISH-II				
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	ING102	ENGLISH-II	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

"The aim of this course is to enable students to develop their basic language skills (reading, writing, listening, and speaking) at the A2/B1 level according to the Common European Framework of Reference for Languages (CEFR), and to use English effectively in everyday life situations."

Teaching Methods and Techniques:

English for everyday life: At a restaurant and Clothes Adjectives and The Weather: What's the Weather like? Modals: Must and Have to Comparatives and Superlatives Geographical Features and Adverbs Present Perfect Tense: Affirmative, Negative Yes No Short answers Wh Questions Modals: Used to/ did not use to Office Materials and activities Past Continuous Tense Affirmative Negative and Wh Questions Vocabulary :Describing People Verb + Adjective Be, taste, look and sound Vocabulary : Cooking Quantifiers Vocabulary: Money Future Tense : Will Conditional Clause: If Type 0 and Type 1 Vocabularies: At home Subject Questions Modals: Should and Shouldn't Review of the lessons and preparation for Final Exam

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Halil ÖZDEMİR

Instructors:

Asist Prof.Dr. Halil ÖZDEMİR

Assistants:

Recommended Sources

Textbook	: [1] Ders notları
Resources	: [2] Essential Grammar in Use
Documents	: [3] Oxford University Press Dictionary
Assignments	: 4. Online Kaynaklar(SİUZEM LMS Platformu)
Exams	: UZEM Distant Learning LMS Online Resources UZEM ONLINE LMS

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	: 20	Field	: 80

Course Content

Week	Topics	Study Materials	Materials
1	English for everyday life: At a restaurant and Clothes	Course Notes	Lecturer Notes Book and Presentations and Videos
2	Adjectives and The Weather: What's the Weather like?	Course Notes	Book, Lecture Notes Presentations, and Videos
3	Modals: Must and Have to	Course Notes	Book, Lecture Notes , Presentation and Videos
4	Comparatives and Superlatives	Course Notes	Book, Lecture notes, Presentation and Videos
5	Geographical Features and Adverbs	Course Notes	Book, Lecture Notes Presentation and Videos
6	Present Perfect Tense: Affirmative, Negative Yes No Short answers Wh Questions	Course Notes	Lecture Notes Videos and Presentations
7	Modals: Used to/ did not use to Office Materials and activities	Course Notes	Lecture Notes, Presentations and Videos
8	Past Continuous Tense Affirmative Negative and Wh Questions	Course Notes	Lecture Notes, Presentations and Videos
9	Vocabulary :Describing People Verb + Adjective Be, taste, look and sound	Course Notes	Lecture Notes, Presentations and Videos
10	Vocabulary : Cooking Quantifiers	Course Notes	Lecture Notes presentation and Videos
11	Vocabulary: Money Future Tense : Will	Course Notes	Lecture Notes presentation and Videos
12	Conditional Clause: If Type 0 and Type 1	Course Notes	Lecture Notes presentation and Videos
13	Vocabularies: At home Subject Questions Modals: Should and Shouldn't	Course Notes	Lecture Notes presentation and Videos
14	Reinforcement of household appliances and subject questions; practical work on giving advice and suggestions using modals	Course Notes	Presentation and Videos
15	Review of the lessons and preparation for Final Exam	Course Notes	Lecture Notes presentation and Videos

Course Learning Outcomes

No	Learning Outcomes
C01	Students engage in dialogues using simple structures in everyday situations such as restaurants, shopping, and office settings.
C02	Students understand and interpret the main idea of short, clear spoken explanations on everyday topics.
C03	Students comprehend the main idea and basic details of short, simple foreign language texts.
C04	Students write short, simple sentences and paragraphs (emails, notes, brief descriptions) related to everyday life.
C05	Students use structures such as modals (must, have to, should, used to), Present Perfect, and Past Continuous appropriately in everyday communication.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
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P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET132 POULTRY ANATOMİSİ					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET132	POULTRY ANATOMİSİ	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach the systematic anatomical structure, organ systems, and interspecies anatomical differences of avian species and to enable students to gain the ability to use the anatomical knowledge and terminology required in clinical, surgical, and breeding applications.

Teaching Methods and Techniques:

This course covers the anatomy of the skeletal, muscular, digestive, respiratory, circulatory, nervous, urinary, and genital systems of avian species, as well as anatomical structures adapted for flight. In addition, interspecies anatomical differences and clinically important anatomical structures are examined.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Fatma İŞBİLİR

Instructors:

Associate Prof.Dr. Fatma İŞBİLİR Associate Prof. Dr. Barış Can GÜZEL

Assistants:

Research Assist. Muhammed Zahid ATLI

Recommended Sources	
Textbook	: Dursun, N. (2008). Evcil Kuşların Anatomisi, Medisan Yayınevi, Ankara
Resources	: Nickel, R., Schummer, A. (1977). , Anatomy of Domestic Birds, Verlag Paul Parey, Berlin-Hamburg
Documents	: Dursun, N. (2008). Evcil kuşların anatomisi. Medisan Yayınevi.
Assignments	:
Exams	: yazılı

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 100
Social Sciences	: 0	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Locomotive system		
2	locomotive system		
3	Digestive system		
4	Digestive system		
5	Respiratory system		
6	Respiratoru system		
7	Urogenital and endocrine system		
8	Urogenital and endocrine systemCardiovasculare system		
9	Midterm exams		
10	Cardiovasculare system		
11	Nervous system		
12	Nervous system		
13	Sensory Organs		
14	Sensory organs		
15	Skin and epidermoidal structures		
16	final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the anatomical structures and organ systems of avian species.
C02	Explains the anatomical structures of the skeletal, muscular, and visceral systems in avian species.
C03	Compares anatomical differences among avian species.
C04	Relates knowledge of avian anatomy to clinical and surgical applications.
C05	Analyzes anatomical structures adapted for flight in avian species.
C06	Acts in accordance with scientific and ethical principles during laboratory and dissection practices related to avian anatomy.
C07	Expresses anatomical structures verbally and in writing by using terminology related to avian anatomy.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
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P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
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P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET136 PROFESSIONAL ENGLISH-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET136	PROFESSIONAL ENGLISH-II	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To teach students the English and Turkish equivalents of general terminology in related fields.

Teaching Methods and Techniques:

Medical English text and Turkish translation. The aim of this course is to teach the students the English and Turkish equivalents of general terminology in related fields and to give them the ability to understand the parts of the profession.

Prerequisites:

Course Coordinator:

Asist. Prof.Dr. AYFER FINDIK

Instructors:

Assistants:

Recommended Sources

Textbook	:	Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Resources	:	Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Medical English text and translation	topics to be selected for professional de	Medical Passages & Vocabulary for UDS
2	Medikal English text and Turkish translation	preparing the subjects for the professor	Medical Passages & Vocabulary for UDS
3	Medikal English text and Turkish translation	preparing the subjects for the professor	Medical Passages & Vocabulary for UDS
4	Medikal English text and Turkish translation	preparing the subjects for the professor	Medical Passages & Vocabulary for UDS
5	Medikal English text and Turkish translation	preparing the subjects for the professor	Medical Passages & Vocabulary for UDS
6	Medikal English text and Turkish translation	preparing the subjects for the professor	Medical Passages & Vocabulary for UDS
7	Medikal English text and Turkish translation	preparing the subjects for the professor	Medical Passages & Vocabulary for UDS
8	midterm exam	Course of the study subjects planned to Medical	Passages & Vocabulary for UDS
9	Medikal English text and Turkish translation	preparing the subjects for the professor	Medical Passages & Vocabulary for UDS
10	Medikal English text and Turkish translation	preparing the subjects for the professor	Medical Passages & Vocabulary for UDS
11	Medikal English text and Turkish translation	preparing the subjects for the professor	Medical Passages & Vocabulary for UDS
12	Medikal English text and Turkish translation	preparing the subjects for the professor	Medical Passages & Vocabulary for UDS
13	Medikal English text and Turkish translation	preparing the subjects for the professor	Medical Passages & Vocabulary for UDS
14	Medikal English text and Turkish translation	preparing the subjects for the professor	Medical Passages & Vocabulary for UDS
15	Medikal English text and Turkish translation	preparing the subjects for the professor	Medical Passages & Vocabulary for UDS

Course Learning Outcomes

No	Learning Outcomes
C01	Learn the English terminology that can be encountered throughout his career.
C02	To gain the ability to understand simple and medium medical articles.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET144 MICROSCOPE INFORMATION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET144	MICROSCOPE INFORMATION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The purpose of this course is to provide the student with fundamental competence in microscopic imaging methods used in veterinary medicine diagnostics and research by teaching the optical principles, mechanical structures, and usage techniques of light and specialized microscopes.

Teaching Methods and Techniques:

The course covers the history of the microscope, basic optical laws, components of the light microscope, its usage and maintenance, and advanced imaging techniques such as fluorescence, confocal, and electron microscopy.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Banu KANDİL

Instructors:

Asist Prof.Dr. Günsel KİRMAN Associate Prof.Dr. Banu KANDİL Asist Prof.Dr. Merve PEKİNCE ÖZÖNER

Assistants:

Recommended Sources	
Textbook	: Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
Resources	: Bancroft, J. D., & Layton, C. (2018). Bancroft's Theory and Practice of Histological Techniques. Elsevier.
Documents	: Young, B., O'Dowd, G., & Woodford, P. (2013). Wheater's functional histology: A text and colour atlas (6th ed.). Churchill Livingstone. Bacha, W. J.
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	History and Development of Microscopy	Researching the historical evolution of microscopes	Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
2	Basic Optical Principles and Lens Systems	Reviewing light refraction and reflection	Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
3	Mechanical Parts of the Light Microscope	Examining the main body and stage structures	Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
4	Optical Parts of the Light Microscope	Learning technical values on objectives	Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
5	Principles of Usage and Focusing	Reading the microscope usage section	Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
7	Micrometric Measurements and Calibration	Practicing unit conversions (microns, mm)	Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
8	Digital Microscopy and Image Analysis	Digital Microscopy and Image Analysis	Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
9	MIDTERM EXAM		
10	Fluorescence Microscopy and Applications	Gaining basic knowledge about fluorescence	Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
11	Confocal Microscopy and 3D Imaging	Watching videos on the use of laser light	Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
12	Electron Microscopy: TEM and SEM	Researching the relationship between electron microscopy and light microscopy	Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
13	Common Errors and Solutions in Microscopy	Noting down imaging issues encountered	Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
14	Maintenance and Cleaning Rules	Reviewing laboratory safety and equipment	Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
15	General Review and Laboratory Practice	Creating a glossary of technical terms	Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
16	Final Exam		
2020320	Midterm Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the optical and mechanical parts of the light microscope theoretically.
C02	Performs microscopic imaging using objectives at different magnification levels.
C03	Identifies microscopic image errors and applies necessary optical corrections.
C04	Selects and manages microscope types appropriately according to the work objective.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	14	1	14
Assignment	0	%0	Assignments	0	0	0
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	1	6	6
Project	0	%0	Practice	0	0	0
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	12	12
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	3	3	3	5	1	3	1	1	1	2	1	1	4	1	1	1	2	2	3
C01	5	4	3	5	1	3	1	1	1	2	1	1	3	1	1	1	2	2	3
C02	3	3	4	5	1	4	2	1	1	1	1	1	4	1	1	1	2	2	4
C03	3	2	3	5	1	3	1	1	1	1	1	1	4	1	1	1	2	2	3
C04	4	4	4	5	1	3	2	1	1	4	2	1	4	1	1	1	2	2	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET130		MUSIC-II			
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	VET130	MUSIC-II	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To understand the contents of the basic concepts of music and music-related education to have knowledge.

Teaching Methods and Techniques:

Basic music knowledge, music note knowledge, space knowlege in music notes, rhythm in musicı, making song repertoryı; sorts of music in Turkey and world; traditional music and modern music, teaching enstruments, playing enstrument and singing together, role of music in education, developing creativty in music

Prerequisites:

Course Coordinator:

Instructors:

Instructor Halil KILIÇVURAN

Assistants:

Recommended Sources	
Textbook	: 1-Yurga,c.(2004)20.century popular Music in turkey
Resources	: 2-SUN M.(1998) Fundamentals of Music education with songs Türkülerle
Documents	: Online course content and Ahmet Say's Müzik Tarihi
Assignments	:
Exams	:

Course Category	
Mathmatics and Basic Sciences	Education
Engineering	Science
Engineering Design	Health
Social Sciences	Field

Course Content		
Week	Topics	Materials
1	One octave voices and teaching voices with flute	Textbook
2	Teaching C,D,E voices with flute and exercises	Textbook
3	Teaching F,G,A,B voices with flute and exercises	Textbook
4	Teaching cild songs in C,D,E voice space	Textbook
5	Teaching child songs in F,G,A,B voice space	Textbook
6	Fonomimi exercises	Textbook
7	Mid-Term Exam	
8	Teaching Çarşıya vardım,ciftlik songs with flute	Textbook
9	Teaching basic traditional child songs bona and flüt exercises	Textbook,sourcebooks
10	Teaching" şubat,mevsimler" songs with flute	Source books
11	Teaching Kis,Okul songs with flüt	Textbook
12	Teaching Anneciğim and Hayvanlar songs with flüt	Textbook,sourcebook
13	Teaching Bayrađım and Bilmem şu feleđin songs with flute	Source books
14	The teaching of national anthem	Textbook

Course Learning Outcomes	
No	Learning Outcomes
C01	Perform the blokflüt exercises
C02	Perform the fonomimi exercises
C03	Play soqns with an musical instruments
C04	Read notes of child's sings
C05	Teach of child's sings
C06	Prepeare a child chorus
C07	Use child's sings at enother lessons

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows; located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
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P12	All surgical interventions in the field of scientific methods and meticulous
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P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

[illegible]

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
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P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
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P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
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P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		%0

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			0
ECTS Credit of the Course			0

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant



Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

TUR102 TURKISH LANGUAGE II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
2	TUR102	TURKISH LANGUAGE II	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The subject of the course is to expose the value of Turkish language by giving information about development of Turkish language, to gain national language awareness, to develop reading and writing skills, to compare and contrast Turkish language to other languages, to compare and contrast language policy of developed countries to Turkish language policy, to gain skill of speaking.

Teaching Methods and Techniques:

Description and features of language, languages of the world, Position of Turkish among other languages, historical development of Turkish, development of western Turkish, Atatürk's ideas and projects on Turkish, pronunciation and punctuation, language policies.

Prerequisites:

Course Coordinator:

Instructors:

Instructor Enser YILMAZ

Assistants:

Recommended Sources

Textbook	:	
Resources	:	Tuncer Gülensoy, Türkçe El Kitabı, Akçağ Yayınları, Ankara 2000 Zeynep Korkmaz vd. Türk Dili ve Kompozisyon Bilgileri, YÖK, Ankara 2000.
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	: 30	Field	: 70

Course Content

Week	Topics	Study Materials	Materials
1	Aims and objectives of the course, content, materials and introduction of the semester curriculum.		
2	Spelling and application		
3	Punctuation and application		
4	What is expression? Feature of expression		
5	Types, formats and application of expression		
6	Common mistakes in Turkish expression and correction		
7	General information on composition		
8	General information on composition		
9	Plan for writing composition and its application		
10	Written composition types (Emotion-oriented writings, event-oriented writings		
11	Written composition types (Thought-oriented writings, analysis writings and other writing types)		
12	Oral composition types (Discussion-oriented oral composition types)		
13	Oral composition types (Interview-oriented oral composition types)		
14	Developing accurate and good speaking skills and related applications by means of selected texts from Turkish and world li		

Course Learning Outcomes

No	Learning Outcomes
C01	Oral and written expression of emotions, thoughts, knowledge and experiences.
C02	Using the Turkish versions of the professional and scientific field terms.
C03	Improving the vocabulary
C04	Applying writing styles
C05	Application of oral and written texts
C06	Reading and comprehending Turkish science, art and culture publications
C07	Comparing selected texts from Turkish and world literature and history of thought.
C08	Producing Turkish texts in science, art and culture

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	1	2	2
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program												
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant												
	P01	P02	P03	P04	P05	P07	P08	P09	P10	P11	P12	
C01	3	4	5	3	4	5	3	4	5	3	4	
C02	3	5	4	5	3	4	3	4	3	5	4	
C03	4	3	4	3	4	3	4	5	3	4	3	
C04	3	4	4	3	4	3	3	3	4	4	5	
C05	5	4	5	3	5	4	5	3	5	3	4	
C06	3	4	3	4	3	4	3	4	3	4	3	
C07	3	4	3	4	3	4	3	5	4	3	4	
C08	4	3	4	3	3	4	4	3	3	4	4	

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
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P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		%0

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			0
ECTS Credit of the Course			0

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant



Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET245 IMPORTANCE AND PREVENTION OF ANTIBACTERIAL RESISTANCE					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET245	IMPORTANCE AND PREVENTION OF ANTIBACTERIAL RESISTANCE	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The One Health approach is an interdisciplinary approach that addresses human, animal, and environmental health as a whole. Within this approach, it has been shown that the uncontrolled, indiscriminate, and widespread use of antibiotics has led to the emergence of resistant bacterial strains in both human and animal health. In addition to the use of antibiotics for human therapeutic purposes, their use in the livestock sector for disease treatment, prevention, and, occasionally, as growth factors accelerates the formation of resistant bacterial populations. These resistant bacteria can be transmitted to humans through the food chain, direct contact, and environmental contamination, posing a threat to public health. Therefore, effective monitoring and prevention of antibiotic resistance is possible through collaboration between human medicine, veterinary medicine, and environmental sciences. The One Health approach demonstrates the relationship between resistance development and both human and animal-based usage practices, paving the way for the development of joint strategies on a global scale.

Teaching Methods and Techniques:

1. Introduction and Basic Concepts Definition of Antibiotic/Antibacterial Agent Concepts of Resistance, Natural Resistance, and Acquired Resistance Importance of Antibacterial Resistance for Global Health 2. Resistance Mechanisms Ways Bacteria Develop Resistance (Enzyme Production, Target Switching, Permeability Reduction, Efflux Pumps) Genetic Mechanisms (Mutation, Plasmid, Transposon, Conjugation) 3. Antibiotic Resistance for Human Health Clinical Significance (Treatment Failures, Increased Morbidity/Mortality) Examples of Resistant Pathogens (MRSA, VRE, ESBL-Producing Bacteria, Carbapenem-Resistant Enterobacteriaceae) Impacts on Public Health 4. Resistance for Animal Health and Food Safety Antibiotic Use in Veterinary Medicine Transmission of Antibiotic Residues and Resistant Bacteria in the Food Chain Human-Animal-Environment Interactions in the Context of the One Health Approach 5. Global and Economic Burden of Resistance World Health Organization (WHO) Data Economic losses, burden on health systems Pandemic-like global threat magnitude 6. Strategies for Preventing Resistance Rational antibiotic use (in humans and animals) Prescription and dose control in antibiotic use Antimicrobial Stewardship programs Infection control measures (hygiene, vaccination, isolation) Alternative approaches in agriculture and animal husbandry (probiotics, vaccines, biosecurity) 7. National and International Policies Joint action plans of WHO, OIE, FAO Policies to reduce antibiotic use in Turkey and globally Legal regulations and monitoring systems 8. Future Perspectives Discovery and development of new antibiotics Alternative treatment methods (phage therapy, antimicrobial peptides, nanotechnology) Resistance monitoring with artificial intelligence and big data 9. Conclusion and Discussion The role of individuals, communities, and healthcare professionals in preventing resistance The importance of multidisciplinary collaboration (One Health approach)

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Devran COŞKUN

Instructors:

Assistants:

Recommended Sources

Textbook	:	Plumb's Veterinary Drug Handbook: Desk Edition (Ed. Budde, James A., and Dawn M. McCluskey.)
Resources	:	Plumb's veterinary drug handbook, Veteriner İlaç Rehberi (Ed. Erver YAZAR)
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction and Basic Concepts Definition of Antibiotic/Antibacterial Agent Concepts of Resistance, Natural Resistance, and		
2	Resistance Mechanisms Ways Bacteria Develop Resistance (Enzyme Production, Target Switching, Permeability Reduction, f		
3	Antibiotic Resistance for Human Health Clinical Significance (Treatment Failures, Increased Morbidity/Mortality) Examples of		
4	Resistance for Animal Health and Food Safety Antibiotic Use in Veterinary Medicine Transmission of Antibiotic Residues and I		
5	Global and Economic Burden of Resistance World Health Organization (WHO) Data Economic losses, burden on health syste		
6	Strategies for Preventing Resistance Rational antibiotic use (in humans and animals) Prescription and dose control in antibi		
7	National and International Policies Joint action plans of WHO, OIE, FAO Policies to reduce antibiotic use in Turkey and globa		
8	Future Perspectives Discovery and development of new antibiotics Alternative treatment methods (phage therapy, antimicro		
9	Conclusion and Discussion The role of individuals, communities, and healthcare professionals in preventing resistance The in		

Recommended Optional Programme Components

VET309 PHARMACOLOGY-I
VET304 PHARMACOLOGY-II
VET415 TOXICOLOGY AND ENVIRONMENTAL PROTECTION
VET450 ENVIRONMENTAL TOXICOLOGY

Course Learning Outcomes

No	Learning Outcomes
C01	Explain the concept of antibacterial resistance and its formation mechanisms.
C02	Analyze the effects of resistant bacteria on public health, animal health, and the environment.
C03	Discuss the global epidemiological and economic significance of antibacterial resistance.
C04	Apply the principles of rational antibiotic use to human and animal health.
C05	Adapt the principles of rational antibiotic use to human and animal health.
C06	Explain the preventive strategies used in infection control (hygiene, vaccination, biosecurity, etc.) with application examples.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge

P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment	Quantity	Percentage
In-Term Studies		
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET233 BEE KEEPING				
Semester	Course Code	Course Name	L+P	Credit
3	VET233	BEE KEEPING	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide knowledge about colony management, care, feeding, reproduction, bee product production, and bee diseases in beekeeping.

Teaching Methods and Techniques:

Bee biology, colony structure, care and feeding practices, reproduction management, bee product production, bee diseases, and breeding techniques are discussed.

Prerequisites:

Course Coordinator:

Instructors:

Associate Prof.Dr. Cahit ÖZCAN

Assistants:

Recommended Sources	
Textbook	: İNAL, Ş., GUÇLU, F. 1998 Arı Yetiştiriciliği ve Hastalıkları. Selçuk Üniversitesi Veteriner Fakültesi Yayın Ünitesi, KONYA
Resources	: understandable beekeeping, Ali KORKMAZ, PhD
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 60
Social Sciences	:	Field	: 40

Course Content			
Week	Topics	Study Materials	Materials
1	HISTORY	Course of the study subjects planned to İNAL, Ş., GUÇLU, F. 1998 ARI YETİŞTİR	
2	THE IMPORTANCE OF BEES	Course of the study subjects planned to İNAL, Ş., GUÇLU, F. 1998 ARI YETİŞTİR	
3	MATERIALS OF BEE KEEPING	Course of the study subjects planned to İNAL, Ş., GUÇLU, F. 1998 BEE CULTUR	
4	BEE SPECIES AND BREEDS	Course of the study subjects planned to İNAL, Ş., GUÇLU, F. 1998 ARI YETİŞTİR	
5	BEE BIOLOGY	Course of the study subjects planned to İNAL, Ş., GUÇLU, F. 1998 ARI YETİŞTİR	
6	BEE BREEDING TECHNIQUES	Course of the study subjects planned to İNAL, Ş., GUÇLU, F. 1998 ARI YETİŞTİR	
7	BEE BREEDING TECHNIQUES	Course of the study subjects planned to İNAL, Ş., GUÇLU, F. 1998 ARI YETİŞTİR	
8	midterm exam		
9	BEE BREEDING TECHNIQUES	Course of the study subjects planned to İNAL, Ş., GUÇLU, F. 1998 ARI YETİŞTİR	
10	VISA EXAM	Course of the study subjects planned to İNAL, Ş., GUÇLU, F. 1998 ARI YETİŞTİR	
11	BEE BREEDING TECHNIQUES	Course of the study subjects planned to İNAL, Ş., GUÇLU, F. 1998 ARI YETİŞTİR	
12	COMMUNICATION	Course of the study subjects planned to İNAL, Ş., GUÇLU, F. 1998 ARI YETİŞTİR	
13	LOCATE	Course of the study subjects planned to İNAL, Ş., GUÇLU, F. 1998 ARI YETİŞTİR	
14	BEE BREEDING TECHNIQUES	Course of the study subjects planned to İNAL, Ş., GUÇLU, F. 1998 ARI YETİŞTİR	
15	General review		
16	Midterm exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Have knowledge about bees and bee breeding
C02	Analyzes the biological characteristics, colony organization, and life cycle of bees.
C03	Applies management, feeding, and breeding methods used in beekeeping.
C04	Identifies diseases and pests seen in honey bees and explains prevention methods.
C05	Evaluates the production and preservation methods of beekeeping products such as honey, pollen, propolis, royal jelly, and beeswax.
C06	Uses modern production techniques and sustainable beekeeping practices in beekeeping enterprises.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	6	6
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	4	1	4	2	3	5	4	2	1	1	2	2	2	1	2	2	1
C01	5	4	4	1	4	2	3	5	4	2	1	1	2	2	2	1	2	2	1
C02	5	3	4	3	3	4	4	5	5	4	5	4	3	4	5	5	5	4	4
C03	4	4	3	4	4	5	3	3	5	5	5	5	5	5	5	5	5	5	4
C04	5	5	5	5	5	3	4	3	3	5	3	5	5	3	3	3	3	3	5
C05	5	5	5	5	3	4	5	5	2	2	2	2	2	5	5	5	5	5	5
C06	4	2	5	5	4	3	3	3	3	5	5	5	4	4	5	5	5	5	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET207 BIOCHEMISTRY-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET207	BIOCHEMISTRY-II	5	4	5

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The objective of this course is to teach the structure, classification, and functions of carbohydrates.

Teaching Methods and Techniques:

The content of this course covers the metabolism of hormones, vitamins, carbohydrates, lipids, proteins, nucleic acids, and minerals.

Prerequisites:

Course Coordinator:

Prof.Dr. Kıvanç İRAK

Instructors:

Prof.Dr. Kıvanç İRAK

Assistants:

Research Assist. Zahide Yusra YILDIZ

Recommended Sources	
Textbook	: 1. Kalaycıoğlu L, Serpek B, Nizamlioğlu M, Başpınar N, Tiftik MA (2000), Biyokimya, Konya.
Resources	: 2. Ası T. (1996) Tablolarla Biyokimya. Cilt 1ve II. Nobel Tıp Kitabevleri, İstanbul.
Documents	: 3. Karagül H, Altıntaş A, Fidancı UR, Sel T (1999) Temel Biyokimya Uygulamaları, Medisan, Ankara.
Assignments	: 1. Lehninger AL, Nelson DL, Cox MM (1993) Principles of Biochemistry, second Edition, United States of America. 2. McKee T, McKee JR (2003) Biochemistry, 2nd Edition, United States of America.
Exams	:

Course Category	
Mathematics and Basic Sciences	: Education
Engineering	: Health
Engineering Design	: 100
Social Sciences	: Field

Course Content			
Week	Topics	Study Materials	Materials
1	Coenzymes (Metabolite coenzymes, coenzymes that source from vitamins)	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
2	Coenzymes (Lipoic acid, ubiquinone, prosthetic groups obtained from modified amino acid moieties, group transfer proteins as	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
3	Vitamins (Definition and importance of vitamins, Classification of vitamins, Fat soluble vitamins (Vitamin A, Vitamin D, Tocopherol)	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
4	Vitamins (water soluble vitamins) B group vitamins, Vitamin C, Vitamin like substances (Miyoinositol, Carnitine (Vitamin T)	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
5	Hormones (Synthesis and general properties of hormones, transport in blood of hormones, Feed-back mechanism of hormones)	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
6	Hormones (Hormones of hypothalamic, Hormones of hypophysis, Hormones of thyroid and parathyroid glands, Adrenocortical	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
7	Carbohydrate Metabolism TCA Cycle	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
8	MID EXAM		
9	oxidative phosphorylation	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
10	Protein Metabolism (Digestion of protein, absorption of peptides and amino acids, amino acid metabolism, transamination,	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
11	Protein Metabolism (catabolism of carbon skeletons of amino acids, Nitrogen metabolism, Urea Biosynthesis, protein synthesis)	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
12	Nucleic Acids Metabolism	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
13	Lipid Metabolism Absorption of lipids, Blood lipids and lipidemia, Metabolic pathways of lipids in liver, Fatty acids metabolism	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
14	Lipid Metabolism Eicosanoids, Triacylglycerol ve neutral lipids, Lipoproteins, Synthesis of acidic phospholipids, Synthesis of	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
15	Biochemical functions of organs and tissues Cell and its members of cell, blood, kidneys and urine, Connective tissues	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu M
16	Midterm exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the fundamental pathways of carbohydrate, lipid, and protein metabolism.
C02	Interprets the relationships among metabolic pathways and their regulatory mechanisms.
C03	Analyzes the biochemical effects of hormones and their roles in metabolism.
C04	Evaluates nucleic acid metabolism and molecular biochemistry processes.
C05	Relates the biochemical mechanisms of metabolic diseases to animal health.
C06	Analyzes clinical biochemical data and uses them in diagnostic evaluations.
C07	Uses current scientific knowledge in biochemistry for professional development.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	8	5	40
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	20	20
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	20	20
Total Work Load			150
ECTS Credit of the Course			5

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	4	5	5	4	4	4	3	5	2	5	2	2	4	5	5	5
C01	5	5	4	3	5	5	3	3	3	2	4	2	4	2	3	4	4	4	5
C02	5	5	5	4	5	5	4	5	3	3	5	2	5	2	4	4	5	4	5
C03	4	4	5	4	5	5	4	4	3	4	5	2	5	2	2	4	5	5	5
C04	4	4	4	4	5	5	4	4	3	3	5	2	5	2	2	4	4	4	4
C05	4	4	5	5	4	4	4	4	4	4	5	2	5	2	2	4	5	5	5
C06	4	4	5	4	5	5	4	4	4	4	5	2	5	2	2	5	5	5	5
C07	5	5	4	4	4	4	4	4	3	3	5	2	5	2	2	5	4	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET237 EXPERIMENTAL ANIMALS AND USAGE					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET237	EXPERIMENTAL ANIMALS AND USAGE	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of the course is to give information about laboratory animal breeding

Teaching Methods and Techniques:

Selection of suitable species in experiments Bioethics and 3R rule Standardization in trials Microbiological standardization Genetic standardization Planning and establishment of experimental animal units. Anatomy, histology, physiology, maintenance and nutrition of rats, rats, rabbits and guinea pigs

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Zelal KARAKOÇ

Instructors:

Asist Prof.Dr. Zelal KARAKOÇ

Assistants:

Recommended Sources	
Textbook	: Homework Presentation (Including Preparatory Period) Activity (Internet Browsing, Library Study, Travel, Observation, Interview, etc.)
Resources	: Dyce, K.M., Sack, W.O., Wensing, C.J.G., 1987. Textbook of Veterinary Anatomy, W.B. Saunders Company, Philadelphia, The Anatomy of the Dome
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 60
Social Sciences	:	Field	: 40

Course Content			
Week	Topics	Study Materials	Materials
1	selection of suitable species in experiments	Course of the study subjects planned to Homework Presentation	(Including Prep.
2	Biyoetik ve 3R kuralı	Öğrenilmesi planlanan konuya ait ders c	Homework Presentation (Including Prep.
3	Denemelerde standartlaştırma	Course of the study subjects planned to Homework Presentation	(Including Prep.
4	Mikrobiyolojik yönden standartlaştırma	Course of the study subjects planned to Homework Presentation	(Including Prep.
5	Genetik yönden standartlaşma	Course of the study subjects planned to Homework Presentation	(Including Prep.
6	Deney hayvanı ünitelerinin planlanması ve kurulması	Course of the study subjects planned to Homework Presentation	(Including Prep.
7	Week of exams	test preparation and repetition	Homework Presentation (Including Prep.
8	Fare anatomisi, histolojisi ve fizyolojisi	Course of the study subjects planned to Homework Presentation	(Including Prep.
9	Fare yetiştiriciliği, bakımı ve sürü yönetimi	Course of the study subjects planned to Homework Presentation	(Including Prep.
10	Rat anatomisi, histolojisi ve fizyolojisi	Course of the study subjects planned to Homework Presentation	(Including Prep.
11	Rat yetiştiriciliği, bakımı ve sürü yönetimi	Course of the study subjects planned to Homework Presentation	(Including Prep.
12	Kobay anatomisi, histolojisi, fizyolojisi	Course of the study subjects planned to Homework Presentation	(Including Prep.
13	Kobay yetiştiriciliği, bakımı ve sürü yönetimi	Course of the study subjects planned to Homework Presentation	(Including Prep.
14	Tavşan anatomisi, histolojisi, fizyolojisi, yetiştiriciliği, bakımı ve sürü yönetimi	Course of the study subjects planned to Homework Presentation	(Including Prep.
15	Diğer deney hayvanlarının yetiştiriciliği, bakımı ve sürü yönetimi	Course of the study subjects planned to Homework Presentation	(Including Prep.

Course Learning Outcomes	
No	Learning Outcomes
C01	Learns the importance of laboratory animal breeding, the use of experimental animals within the framework of bioethical rules
C02	Learns the factors that affect laboratory animal breeding and hosting conditions
C03	Learns subjects with mouse breeding
C04	Learns subjects with rat breeding
C05	Learns subjects with rabbit breeding
C06	Learns subjects with guinea pig breeding
C07	Learn to be aware of the use of experimental animals

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	14	14
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	14	14
Total Work Load			56
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
C01	5	5	5	4	4	5	5	5	5	5	4	4	4	5	5	5	4	5	5
C02	5	5	5	4	4	5	5	4	4	4	5	5	5	5	5	4	4	4	4
C03	5	5	5	4	4	4	5	5	5	5	5	4	4	4	5	5	5	5	5
C04	5	5	5	5	4	4	5	4	5	5	4	4	4	5	5	4	5	5	5
C05	5	5	5	5	5	4	5	4	5	5	4	4	4	5	5	4	4	5	5
C06	5	5	5	5	5	4	5	4	5	5	5	5	5	5	5	4	4	5	5
C07	5	5	5	5	5	4	5	5	5	5	5	5	5	5	5	4	4	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET243 FEEDING OF PIGS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET243	FEEDING OF PIGS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach the principles of swine breeding, including feeding, reproduction, housing, care, and herd management practices, and to provide knowledge about productivity traits and breeding-related problems.

Teaching Methods and Techniques:

Breeding systems, feeding practices, reproduction management, care methods, housing conditions, and productivity traits used in swine production are discussed.

Prerequisites:

Course Coordinator:

Instructors:

Associate Prof.Dr. Cahit ÖZCAN

Assistants:

Recommended Sources	
Textbook	: Koçak, Ç. (1986). DOMUZ YETİŞTİRİCİLİĞİ. Journal of Animal Production, 23(1), 13-15.
Resources	: Koçak, Ç. (1986). DOMUZ YETİŞTİRİCİLİĞİ. Journal of Animal Production, 23(1), 13-15.
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 100

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to swine production and importance of the sector		
2	Anatomical and physiological characteristics of swine		
3	Swine breeds and productivity traits		
4	Digestive system and feeding principles in swine		
5	Feedstuffs and ration formulation		
6	Feeding and management of piglets		
7	Feeding practices during growing and finishing periods		
8	midterm exam		
9	Reproductive management in swine		
10	Pregnancy, farrowing, and lactation management		
11	Housing systems and environmental conditions		
12	Herd management and record keeping		
13	Swine diseases and preventive practices		
14	Biosecurity practices in swine production		
15	Swine products, quality, and marketing		
16	Final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Analyzes the nutrient and energy requirements of swine.
C02	Explains the care and management practices used in swine production.
C03	Evaluates reproduction and breeding systems in swine.
C04	Interprets the characteristics of swine housing and environmental conditions.
C05	Identifies nutritional and health problems encountered in swine production.
C06	Evaluates the factors affecting productivity performance in swine production.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	15	15
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	20	20
Total Work Load			49
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4
C01	4	4	4	4	4	3	4	3	3	2	4	2	4	4	5	4	4	4	5
C02	2	3	2	5	5	5	3	4	4	5	5	5	5	5	5	5	5	5	5
C03	5	3	3	5	5	5	5	5	5	3	3	3		3	3	3	2	4	4
C04	3	3	5	3	3	3	3	2	2	2	2	4	5	4	3	2	5	2	4
C05	5	2	3	2	5	3	5	2	3	5	4	5	5	5	5	3	3	5	5
C06	5	5	3	3	5	2	3	3	5	5	5	5	5	4	5	5	5	5	5

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET239 EXOTIC ANIMAL CARE AND NUTRITION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET239	EXOTIC ANIMAL CARE AND NUTRITION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The general aim of this course is to provide the students with the knowledge and skills necessary for the care and feeding of budgeted birds, Canary and parrots.

Teaching Methods and Techniques:

Information about the feeding of exotic birds and feed ingredients used, basic principles about the feeding of parakeets, Canaries and parrots

Prerequisites:

Course Coordinator:

Prof.Dr. Tuncay TUFAN

Instructors:

Associate Prof.Dr. Cahit ÖZCAN

Assistants:

Recommended Sources	
Textbook	: Ergün A, Çolpan İ, Yıldız G, Küçükersan S, Tuncer ŞD, Yalçın S, et al. Hayvan Besleme ve Beslenme Hastalıkları. Ankara: Baskı Pozitif Yayınları; 201
Resources	: Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yalçın, S., Yıldız, G., Küçükersan, M.K., Küçükersan, S., Şehu, A. (2006), Hayvan Besleme ve Beslenme Hastalıkları
Documents	: Hayvan Besleme ve Beslenme Hastalıkları
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Egzotik Hayvanlar		Hayvan Besleme ve Beslenme Hastalıkları
2	Egzotik kuşların bakım ve beslenmesi		
3	Egzotik kuşların bakım ve beslenmesi		
4	Egzotik kuşlarda besin madde ihtiyacı		
5	Tane yem ile beslenen egzotik kuşlar		
6	Yumuşak yem ile beslenen egzotik kuşlar		
8	Ara Sınav		
9	Egzotik kuşlarda tüy dökümü		
10	Egzotik kuşlarda beslenme hastalıkları		
11	Muhabbet kuşlarında beslenme hastalıkları		
12	Kanarya kuşlarında beslenme hastalıkları		
13	Papağanlarda beslenme hastalıkları		
14	Papağanlarda beslenme hastalıkları		
15	General review		
16	Final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Evaluates the knowledge about budgerigar, canaries and parrots in a scientific manner
C02	Learns the selection and use of feeds that can be used in feeding the exotic birds
C03	Students will be able to use the knowledge and skills they obtain in field conditions and use them within the scope of developing technology.
C04	Applies animal welfare and sustainable management principles in exotic animal nutrition.
C05	Develops feeding programs appropriate for different life stages of exotic animals.
C06	Identifies diseases caused by inadequate and unbalanced nutrition in exotic animals.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	15	2	30
Hours for off-the-c.r.stud	0	0	0
Assignments	1	6	6
Presentation	0	0	0
Mid-terms	1	8	8
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	16	16
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
C01	4	4	5	5	4	3	3	2	5	5	3	5	5	5	5	3	3	3	3
C02	4	5	5	5	3	3	4	4	2	4	4	4	2	5	4	3	4	5	5
C03	5	4	5	5	5	5	3	3	4	4	5	3	3	3	4	3	4	4	4
C04	4	3	3	3	3	4	4	3	4	4	3	4	3	4	3	3	4	4	4
C05	3	4	3	3	4	3	3	4	4	4	4	4	3	4	4	4	4	4	3
C06	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET201 EMBRYOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET201	EMBRYOLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

This course aims to explain the development of a living organism from fertilization to birth at the cellular, molecular, and morphological levels, to provide an understanding of how organs and systems form, and to teach the basic mechanisms of developmental anomalies.

Teaching Methods and Techniques:

Explain fertilization, embryonic development stages, organogenesis, and the basic mechanisms of developmental anomalies.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Banu KANDİL

Instructors:

Asist Prof.Dr. GÜNSEL KIRMAN

Assistants:

Recommended Sources

Textbook	:	Schwarz, O. J., & Beaty, R. M. (2018). Organogenesis. In Plant tissue culture concepts and laboratory exercises (pp. 125-138). Routledge.
Resources	:	Schwarz, O. J., & Beaty, R. M. (2018). Organogenesis. In Plant tissue culture concepts and laboratory exercises (pp. 125-138). Routledge.
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 80
Social Sciences	:	Field	: 20

Course Content

Week	Topics	Study Materials	Materials
1	Introduction to embryology and basic concepts		TIP, K. U. N. V. T., & LTEST, F. DONEM
2	Male and female sex cells	Lecture/Question-Answer	1. Editor: Ozer A, Authors: Yakisik M, Öz
3	Genital cycle		McGeedy, T. A., Quinn, P. J., FitzPatrick,
4	Development of different types of embryonal leaves		McGeedy, T. A., Quinn, P. J., FitzPatrick,
5	Implantation and Placenta		McGeedy, T. A., Quinn, P. J., FitzPatrick,
6	Twin pregnancy and ectopic pregnancy		McGeedy, T. A., Quinn, P. J., FitzPatrick,
7	Embryonic development of the nervous system		McGeedy, T. A., Quinn, P. J., FitzPatrick,
8	Midterm Exam		McGeedy, T. A., Quinn, P. J., FitzPatrick,
9	Embryonic development of skin and epidermal structures		McGeedy, T. A., Quinn, P. J., FitzPatrick,
10	Embryonic development of sensory organs and oral cavity.		McGeedy, T. A., Quinn, P. J., FitzPatrick,
11	Embryonic development of the digestive system		McGeedy, T. A., Quinn, P. J., FitzPatrick,
12	Embryonic development of the respiratory system		McGeedy, T. A., Quinn, P. J., FitzPatrick,
13	Embryonic development of the circulatory system.		McGeedy, T. A., Quinn, P. J., FitzPatrick,
14	Embryonic development of the urogenital system		McGeedy, T. A., Quinn, P. J., FitzPatrick,
15	embryonic development of the internal genital organs		McGeedy, T. A., Quinn, P. J., FitzPatrick,
16	final exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the process of fertilization.
C02	Defines the stages of embryonic development.
C03	Explains the processes of gastrulation and neurulation
C04	Explains the process and basic mechanisms of organogenesis
C05	Defines the development of the placenta and extraembryonic structures
C06	Explains the stages of fetal development.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	20	20
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	20	20
Total Work Load			54
ECTS Credit of the Course			2

Course Contribution To Program															
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant															
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P13	P15	P16	
All	5	4	4	1	3	2	3	1	2	1	2	2	3	1	
C01	5	4	2	1	2	1	2	1	1	1	2	1	2	1	
C02	5	4	3	1	2	1	2	1	1	1	2	1	2	1	
C03	5	4	4	1	2	1	3	1	1	1	2	2	2	1	
C04	5	4	5	1	3	2	3	1	2	1	2	2	3	1	
C05	4	4	3	1	3	2	3	1	1	1	2	2	3	1	
C06	5	4	4		3	2	3	1	2	1	2	2	3	1	

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET249 EXENTERATION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET249	EXENTERATION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach exenteration methods used in veterinary anatomy and to enable students to gain knowledge and practical skills in the removal, preparation, and educational evaluation of organs while preserving their anatomical integrity.

Teaching Methods and Techniques:

This course covers the fundamental techniques used in exenteration procedures, removal of organs while preserving anatomical integrity, principles of dissection, specimen preparation methods, and laboratory safety. In addition, anatomical relationships of organ systems are examined through practical applications.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Fatma İŞBİLİR

Instructors:

Associate Prof.Dr. Barış Can GÜZEL Associate Prof.Dr. Fatma İŞBİLİR

Assistants:

Research Assist. Muhammed Zahid ATLI

Recommended Sources	
Textbook	: Dyce, K. M., Sack, W. O., & Wensing, C. J. G. (2017). Textbook of Veterinary Anatomy (5th ed.). Elsevier.
Resources	:
Documents	: Nickel, R., Schummer, A., & Seiferle, E. (1986). The Anatomy of the Domestic Animals. Springer-Verlag.
Assignments	:
Exams	: Popesko, P. (2012). Color Atlas of Veterinary Anatomy. Elsevier.

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 100
Social Sciences	: 0	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction, definition of exenteration, ethics and biosafety		
2	Cadaver preparation and basic dissection principles		
3	Anatomical directions and access to cavities (thorax-abdomen)		
4	Opening the thoracic cavity		
5	Removal and examination of lungs and heart		
6	Opening the abdominal cavity		
7	Removal of digestive system organs		
8	mid exam		
9	Examination of liver, pancreas, and spleen		
10	Removal of urogenital system organs		
11	Examination of circulatory system structures		
12	Cleaning and preservation of organs		
13	Specimen preparation techniques		
14	Interspecies anatomical comparisons		
15	General review and practical evaluations		
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the fundamental anatomical concepts and techniques used in exenteration procedures.
C02	Explains the anatomical relationships of organ systems and the principles of exenteration.
C03	Applies appropriate dissection techniques in exenteration procedures.
C04	Removes and evaluates organs while preserving their anatomical integrity.
C05	Analyzes anatomical specimens obtained during the exenteration process and uses them for educational purposes.
C06	Acts in accordance with ethical principles, biosafety, and laboratory safety rules during exenteration procedures.
C07	Expresses processes related to exenteration procedures verbally and in writing using scientific terminology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
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P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
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P12	All surgical interventions in the field of scientific methods and meticulous
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P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	12	12
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			52
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	4	5	3	5	4	5	4	5	4	5	3	4	5	5	5	4
C01	5	4	4	4	4	4	5	4	3	3	3	3	5	5	5	2	5	4	4
C02	4	3	3	3	3	5	5	5	5	5	4	4	4	4	4	5	5	5	5
C03	3	3	3	3	5	5	5	5	4	4	4	4	3	5	4	5	3	5	5
C04	3	5	4	5	5	4	5	4	5	4	5	3	5	5	5	5	4	4	4
C05	3	3	5	4	5	4	5	5	3	5	5	4	4	5	5	3	5	4	5
C06	3	5	5	4	4	4	4	4	3	3	3	5	5	4	4	5	5	5	3
C07	5	4	4	5	4	4	4	4	3	3	3	3	5	5	4	4	4	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET209 PHYSIOLOGY-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET209	PHYSIOLOGY-II	5	4	5

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The detailed aim is to teach the characteristic structures and functions of digestive, respiratory, endocrine, and reproductive systems in different animal species.

Teaching Methods and Techniques:

This course begins with the study of digestive physiology and digestive processes, followed by the structure and functions of the circulatory system. It covers the physiological mechanisms of the respiratory system, the hormonal regulatory functions of the endocrine system, and the structure and functions of the reproductive system. In addition, neural and hormonal control mechanisms of these systems and their integrated physiological relationships within the organism are also addressed.

Prerequisites:

Course Coordinator:

Prof.Dr. HURREM TURAN AKKOYUN

Instructors:

Prof.Dr. HURREM TURAN AKKOYUN

Assistants:

Research Assist. Dr. Kübra GEÇMEZ CAHAN

Recommended Sources	
Textbook	: 1. Noyan, A. (2011). Physiology in life and medicine. Meteksan.
Resources	: 2. Reece, W. O. (Ed.). (2004). Dukes veterinary physiology (S. Yıldız, Trans. Ed.; 12th edition). Medipres.
Documents	: Yıldız, S. (Ed.). (2004). Dukes' veterinary physiology (12th ed.). Medipres Publishing.,Noyan, A. (2011). Physiology in life and medicine. Meteksan.,
Assessments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	An introduction to respiratory physiology is provided, covering basic structure, functions, and gas exchange mechanisms.	It is recommended to review the basic a	
2	Lung volumes and capacities, along with intrapulmonary and intrapleural pressure concepts, are discussed.	Basic concepts of ventilation and respira	
3	Respiratory centers and chemical control mechanisms of respiration are examined.	Basic knowledge of the nervous system	
4	The relationship between respiratory diseases and acid-base balance is discussed.	Acid-base balance and homeostasis cont	
5	Circulatory physiology, including heart structure, vascular system, and circulation mechanisms, is covered.	Cardiovascular system anatomy should l	
6	Physiological properties of cardiac muscle, impulse generation, and conduction are examined in detail.	Electrical activity and conduction system	
7	Electrocardiography, blood pressure, and regulatory mechanisms of circulation are discussed.	Basic cardiovascular physiology concept	
8	Midterm examination is conducted.		
9	Digestive physiology, including food intake, stomach functions, and digestive reflexes, is covered.	Structure and functions of the digestive	
10	Physiology of the small and large intestine, including digestion and absorption processes, is covered.	Intestinal anatomy and absorption mech	
11	Digestive system in ruminants and microbial fermentation processes are examined.	Basic ruminant digestive physiology sho	
12	Endocrine system, including hormone classification and mechanisms of action, is covered.	Basic endocrine system concepts should	
13	Hormones and physiological roles of the pituitary, thyroid, and parathyroid glands are covered.	Structure of endocrine glands should be	
14	Physiological effects of the pancreas, thymus, pineal gland, and prostaglandins are examined.	Hormonal systems and regulatory mech	
15	Male and female reproductive physiology and hormonal control of reproductive processes are covered.	Reproductive system anatomy and horri	
16	Final examination is conducted.		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the basic structures and functions of the nutritional, cardiovascular, respiratory, endocrine, and reproductive systems in animals.
C02	Explains the characteristics of blood flow in special circulation regions and the basic principles of hormonal regulation mechanisms.
C03	Interprets physiological data, diagrams, and graphs related to the cardiovascular, respiratory, and endocrine systems.
C04	Compares and analyzes the physiological relationships among nutrition, circulation, respiration, and reproduction processes.
C05	Evaluates the interactions among nutritional, circulatory, respiratory, endocrine, and reproductive systems in maintaining homeostasis in animals from a holistic perspective.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	40	40
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	40	40
Total Work Load			150
ECTS Credit of the Course			5

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	4	4	3	4	4	3	2	2	2	2	3	3	2	2	2	4	4
C01	4	4	4	3	2	3	3	3	2	2	2	2	3	2	2	2	2	3	2
C02	4	4	4	4	2	3	4	2	2	2	2	2	3	2	2	2	2	4	2
C03	4	4	4	3	2	4	2	3	2	2	2	2	3	2	2	2	2	3	2
C04	3	3	3	3	2	2	3	3	2	2	2	2	4	2	2	2	2	4	4
C05	4	4	4	4	2	4	4	4	2	2	2	2	2	2	2	3	2	3	2

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET213 ANIMAL BEHAVIOR					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET213	ANIMAL BEHAVIOR	1	1	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to examine the fundamental principles of domestic animal behavior, the biological and environmental factors influencing behavior, and the effects of domestication on animal behavior.

Teaching Methods and Techniques:

Within the scope of this course, the definition and basic characteristics of behavior are addressed, and the effects of domestication on animal behavior are examined. In addition, physiological and behavioral adaptations such as thermoregulation in endothermic and ectothermic animals, hibernation, and body temperature regulation are included in the course content.

Prerequisites:

Course Coordinator:

Prof.Dr. HURREM TURAN AKKOYUN

Instructors:

Prof.Dr. HURREM TURAN AKKOYUN

Assistants:

Research Assist. Dr. Kübra GEÇMEZ CAHAN

Recommended Sources

Textbook	: 1.Cengiz, F. (2008). Hayvan davranışları. U.Ü. Veteriner Fakültesi Yayınları, Bursa.
Resources	: 2.Haupt, K. A. (2011). Domestic animal behavior for veterinarians and animal scientists (5th ed.). Wiley-Blackwell, Iowa, USA.
Documents	: 3.Randall, D., Burggren, W., & French, K. (1997). Eckert animal physiology: Mechanisms and adaptations (4th ed.). W.H. Freeman and Company, I
Assignments	: 4.Fraser, A. F., & Broom, D. M. (1990). Farm animal behaviour and welfare (3rd ed.). East Kilbride, Scotland.
Exams	: Cengiz, F. (2008). Animal behavior. U.Ü. Veterinary Faculty Publications, Bursa, Turkey.,Haupt, K. A. (2011). Domestic animal behavior for veterina

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	An introduction to animal behavior science is provided, including the definition, scope, and basic principles of ethology. The	Students are expected to become famili	Cengiz, F. (2008). Animal behavior. U.U.
2	The effects of the central nervous system on behavior are examined in detail.	Students are recommended to acquire b	Cengiz, F. (2008). Animal behavior. U.U.
3	Biological rhythms and time-related physiological and behavioral cycles in living organisms are examined. Circadian, ultradi	Students are recommended to acquire k	Cengiz, F. (2008). Animal behavior. U.U.
4	Sleep behavior and sleep physiology are examined. The neurophysiological basis of the sleep-wake cycle, its relationship	Students are recommended to review b	Cengiz, F. (2008). Animal behavior. U.U.
5	The development of behavior in dogs is examined. The formation of social behaviors from the puppy stage to adulthood, le	Students are recommended to acquire k	Cengiz, F. (2008). Animal behavior. U.U.
6	The development of behavior in cats is examined. The development of social, feeding, and hunting behaviors from the kitt	Students are recommended to acquire k	Cengiz, F. (2008). Animal behavior. U.U.
7	The development of behavior in horses and pigs is examined. Social behaviors, feeding habits, learning processes, and the	Students are recommended to acquire k	Cengiz, F. (2008). Animal behavior. U.U.
8	The midterm examination is conducted.		
9	The development of behavior in large and small ruminants is examined. This includes the formation of social behaviors fr	Students are recommended to acquire k	Cengiz, F. (2008). Animal behavior. U.U.
10	Learning behavior in animals is examined on a species-specific basis. In domestic animals such as dogs, cats, horses, cattl	Students are recommended to acquire k	Cengiz, F. (2008). Animal behavior. U.U.
11	Digestive behavior in dogs and cats is examined. In dogs, feeding behavior includes food selection, rapid feeding tendency	Students are recommended to acquire k	Cengiz, F. (2008). Animal behavior. U.U.
12	Digestive behavior in horses and pigs is examined. In horses, feeding behavior includes feed selection, continuous grazing	Students are recommended to acquire b	Cengiz, F. (2008). Animal behavior. U.U.
13	Digestive behavior in large and small ruminants is examined. In ruminant species such as cattle, sheep, and goats, feed se	Students are recommended to acquire k	Cengiz, F. (2008). Animal behavior. U.U.
14	Reproductive behavior in animals is examined. In domestic species, mating behavior, mate selection, courtship behaviors, i	Students are recommended to acquire b	Cengiz, F. (2008). Animal behavior. U.U.
15	Aggressive behavior in animals is examined. The biological basis of aggression, its neural and hormonal mechanisms, and i	Students are recommended to acquire k	Cengiz, F. (2008). Animal behavior. U.U.
16	The final examination is conducted.		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the concepts of behavior, homeostasis, and domestication in the context of animal behavior.
C02	Explains the behavioral characteristics, sleep patterns, and the basic mechanisms of stress and aggression behaviors in domesticated animal species.
C03	Identifies, classifies, and interprets observed behaviors in different domesticated animal species.
C04	Analyzes behavioral examples related to sleep, stress, and aggression in animals and identifies their possible causes.
C05	Evaluates animals' adaptation to environmental conditions and behavioral status by using behavioral indicators in animal welfare assessment.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	23	23
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	23	23
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	4	3	4	3	4	3	4	4	3	4	4	4	4	4	3	4	2
C01	4	4	4	3	2	2	3	3	2	2	2	2	3	2	2	2	2	2	2
C02	4	4	4	3	2	3	3	3	2	2	2	2	3	2	2	2	2	2	2
C03	4	4	4	4	2	2	3	3	2	2	2	2	4	2	2	2	2	2	2
C04	3	3	3	3	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2
C05	4	4	4	3	2	3	3	4	3	2	2	3	3	3	3	3	2	3	2

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET211 ANIMAL WELFARE					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET211	ANIMAL WELFARE	1	1	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim is to enable students to understand the scientific, ethical, and legal foundations of animal welfare; to equip them with the competence to evaluate the welfare levels of different animal species (farm, pet, laboratory, and wild) using scientific methods; and to develop solutions to improve welfare.

Teaching Methods and Techniques:

The concept and history of animal welfare; ethical differences between animal rights and welfare; the five freedoms of animals; physiological and behavioral indicators of welfare; species-specific welfare criteria (poultry, ruminants, pets); welfare standards during transport and slaughter; national and international (OIE, EU) animal welfare legislation.

Prerequisites:

Course Coordinator:

Asist.Prof.Dr. Erman Gülelendağ

Instructors:

Asist.Prof.Dr. Erman Gülelendağ

Assistants:

Recommended Sources	
Textbook	: Peter Singer, Hayvan Özgürleşmesi, Çev: Hayrullah Doğan, Ayrıntı Yayınları, İstanbul, 2002
Resources	: Peter Singer, Hayvan Özgürleşmesi, Çev: Hayrullah Doğan, Ayrıntı Yayınları, İstanbul, 2002
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 40
Social Sciences	:	Field	: 60

Course Content			
Week	Topics	Study Materials	Materials
1	The concept of animal welfare and opinions on this issue (Views of Ruth HARRISON, Astrid LINDGER, Jeremy BENTHAM, ...)	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	
2	Animal welfare and animal rights (comparative evaluation)	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	
3	Animal welfare and human behavior (Animal owners and veterinarians)	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	
4	Animal welfare, animal ethics and veterinary ethics association	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	
5	Relationship between animal welfare – veterinary medicine	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	
6	Legislation on animal welfare in Turkey and EC	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	
7	Analysis of animal welfare cases and the evaluation of cases which are dispatch to the law courts	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	
8	Midterm exam		
9	Features of environment and its impacts on animal species	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	
10	Comfort zone and its importance in livestock	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	
11	Stress and factors causing stress in livestock	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	
12	Management techniques from point view of animal welfare in cattle barns	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	
13	Management techniques from point view of animal welfare in poultry housing systems	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	
14	Management techniques from point view of animal welfare in sheep barns	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	
15	Management techniques from point view of animal welfare in horse barns	Course of the study subjects planned to Peter Singer, Hayvan Özgürleşmesi, Çev	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the five fundamental freedoms and scientific basis of animal welfare.
C02	Defines current national and international animal welfare legislation.
C03	Analyzes the welfare levels of different animal species using physiological and behavioral indicators.
C04	Identifies welfare problems in housing, transport, and slaughter processes and develops solutions.
C05	Acts in accordance with ethical values regarding animal rights and welfare in professional practices.
C06	Guides towards increasing social awareness on the subject of animal welfare.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	1,5	21
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	7	7
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	18	18
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	3	1	1	1	1	1	1	5	1	5	1	1	1	1	1	1	1	1
C01	4	4	4	3	4	5	5	4	3	4	2	5	4		3	3	3	4	5
C02	4	3	4	3	5	5	4	3	3	3	3	4	3	5	4	3	4	3	3
C03	4	3	4	3	3	4	3	3	3	4	3	3	4	5	3	3	4	2	2
C04	4	3	5	2	4	3	5	3	1	3	5	2	3	3	4	4	3	3	2
C05	1	3	5	4	3	2	4	3	4	4	3	2	3	3	2	3	4	5	3
C06	3	3	5	4	3	5	4	5	5	3	1	3	2	2	3	4	3	5	3

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET221		HISTOLOGY			
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET221	HISTOLOGY	4	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to provide a holistic understanding of the embryological development, structural characteristics, and functional relationships of the Central Nervous System, Peripheral Nervous System, Circulatory System, Digestive System, Respiratory System, Urinary System, Reproductive System, Endocrine System, and Skin and Sensory Systems.

Teaching Methods and Techniques:

Sytems and tissue histologia

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Banu KANDİL

Instructors:

Asist Prof.Dr. Günsel Kirman

Assistants:

Recommended Sources	
Textbook	: Özel Histoloji, Atilla TANYOLAC, Veteriner Özel Histoloji, Aytekin Özer
Resources	: Dellman's Texbook of Veterinary Histology
Documents	:
Assignments	:
Exams	:

Course Category	
Mathmatics and Basic Sciences	:
Engineering	:
Engineering Design	: 50
Social Sciences	: 50

Course Content	
Week	Topics
1	Nervous system (Central nervous system)
2	Nervous system (Peripheral nervous system)
3	Circulator system
4	Primary and secondary lymphoid tissues
5	Digestive system (cavum oris, bucca, labies, osephagus)
6	Digestive system II(gastrointestinal system)
7	Digestive system (Digestive glands)
8	Midterm exam
9	Respiratory system
10	Urinary system
11	Reproductive system
12	Endocrine system
13	Integument
14	Sensory systems
15	Sensory systems
16	final exam

Course Learning Outcomes	
No	Learning Outcomes
C01	Histolojinin temel kavram ve terimlerini öğrenir
C02	Işık mikroskobu kullanabilir
C03	Işık mikroskobunda sağlıklı bir dokunun hücrel özelliklerini tanımlayabilir
C04	Farklı boyama tekniklerini ayırt eder
C05	Farklı dokuları ve organları ayırt eder
C06	Organları sistematik olarak tanımlar
C07	Immunoloji dersi için temel bilgiler kazanır
C08	Patoloji dersleri için temel bilgiler kazanır

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diaqnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			76
ECTS Credit of the Course			3

Course Contribution To Program																
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16
All	5	3	3	3	2	2	3	1	1	1	2	1	2	1	2	1
C01	5	3	2	1	2	1	2	1	1	1	2	1	1	1	2	1
C02	4	2	2	5	1	1	1	1	1	1	2	1	1	1	1	1
C03	5	3	3	3	2	2	2	1	1	1	2	1	2	1	2	1
C04	4	3	3	4	2	2	2	1	1	1	2	1	2	1	2	1
C05	5	3	4	3	2	2	3	1	1	1	2	1	2	1	2	1
C06	5	3	4	3	3	2	3	1	2	2	2	1	2	1	3	1
C07	3	3	3	1	2	1	3	1	1	1	2	1	2	1	2	1
C08	4	3	5	2	2	2	3	1	1	1	2	1	3	1	3	1

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

HISTOLOGICAL TISSUE PREPARATION AND STAINING TECHNIQUES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET257	HISTOLOGICAL TISSUE PREPARATION AND STAINING TECHNIQUES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The purpose of this course is to provide students with basic laboratory competencies by teaching the principles of tissue processing, fixation, sectioning, routine, and special staining necessary for preparing biological tissues for microscopic examination.

Teaching Methods and Techniques:

The course covers laboratory safety, sampling, tissue fixation methods, dehydration, clearing, paraffin embedding, microtome sectioning, and basic (H&E) and special histochemical staining techniques that make cellular structures visible.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Banu KANDİL

Instructors:

Asist Prof.Dr. Merve PEKİNCE ÖZÖNERAssociate Prof.Dr. Banu KANDİLAsist Prof.Dr. Günsel KIRMAN

Assistants:

Recommended Sources	
Textbook	: Özer, A. (2020). Veteriner özel histoloji (3. bs.). Dora.
Resources	: Bancroft, J. D., & Layton, C. (2018). Bancroft's theory and practice of histological techniques. Elsevier.
Documents	: Bacha, W. J., & Bacha, L. M. (2012). Color atlas of veterinary histology (3rd ed.). Wiley-Blackwell.
Assignments	: Young, B., O'Dowd, G., & Woodford, P. (2013). Wheater's functional histology: A text and colour atlas (6th ed.), Mescher, A. L. (2021). Junqueira's
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 40
Social Sciences	:	Field	: 60

Course Content			
Week	Topics	Study Materials	Materials
1	Safety and Equipment Introduction in the Histology Lab	Reviewing laboratory safety rules (MSDS)	
2	Sampling and Tissue Preparation During Necropsy	Researching autolysis and putrefaction c	
3	Principles and Types of Fixation	Reading about the chemical effect of for	
4	Tissue Processing: Dehydration and Clearing	Preparing a short summary on the role c	
5	Paraffin Embedding and Block Preparation	Researching melting points of paraffin a	
6	Microtome Types and Principles of Use	Watching a video explaining the rotary r	
7	ectioning Errors, Causes, and Water Bath (Flotation)	Noting down common causes of section	
8	Midterm Exam		
9	Principles of Staining: Acidic and Basic Dyes	Learning cellular correlates of acidophilic	
10	Routine Staining: Hematoxylin & Eosin (H&E) Technique	Memorizing the steps of the H&E stainin	
11	pecial Stains for Carbohydrates: PAS and Alcian Blue	Researching tissue locations of glycogen	
12	Connective Tissue Stains: Masson's Trichrome and Picrosirius Red	Reviewing collagen types and the conce	
13	Nervous System Stains: Toluidine Blue and Cresyl Violet (Nissl)	Researching the intracellular structure o	
14	Special Stains for Lipids and Reticular Fibers (Silvering, etc.)	Reading about cryostats and lipid preser	
15	Mounting and Archiving of Slides	xamining differences between resin-basi	
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines basic equipment and safety rules in the histology laboratory.
C02	Explains tissue fixation mechanisms and types of fixatives.
C03	Prepares necropsy material appropriately for laboratory processing.
C04	Performs tissue processing steps (dehydration, clearing, embedding).
C05	Obtains standard quality sections from tissues using a microtome.
C06	Conducts routine (H&E) staining protocols according to the procedure.
C07	Performs special staining techniques (PAS, Trichrome, etc.) for diagnostic purposes.
C08	Evaluates prepared slides in terms of technical artifacts and quality.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	6	6
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	3	3	3	4	1	4	1	1	1	2	3	1	3	1	1	1	1	4	5
C01	3	2	3	4	1	5	1	1	1	1	2	1	3	1	1	1	1	5	5
C02	5	2	2	5	1	4	1	1	1	1	2	1	2	1	1	1	1	4	5
C03	2	2	2	5	1	3	1	1	1	1	2	1	2	1	1	1	1	3	5
C04	3	3	4	5	1	4	1	1	1	1	2	1	4	1	1	1	1	3	5
C05	3	2	1	5	1	2	1	1	1	4	4	1	1	1	2	1	1	2	4
C06	5	3	4	4	1	4	1	1	1	1	2	1	3	1	2	1	1	4	4
C07	4	4	5	5	1	4	1	1	1	1	2	1	5	1	1	1	1	4	5
C08	4	3	5	4	1	4	1	1	1	3	5	1	4	1	1	1	1	2	5

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET223 IMMUNOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET223	IMMUNOLOGY	3	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

To introduce students to the basic mechanisms, organs, and cells of the immune system; to teach antigen-antibody relationships, resistance mechanisms against diseases, and immunological diagnostic methods.

Teaching Methods and Techniques:

Structure of the immune system, innate and adaptive immunity, structure and functions of antibodies, complement system, principles of vaccination, and hypersensitivity reactions.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. ÖZGÜL GÜLAYDIN

Instructors:

Asist Prof.Dr. Muazzez YEŞİLYURTAsist Prof.Dr. Songül ÖTKÜNAssociate Prof.Dr. ÖZGÜL GÜLAYDIN

Assistants:

Research Assist. Mustafa Berkan GÜL

Recommended Sources	
Textbook	: İMMÜNOLOJİ (2003) Erganiş O, İstanbuluoğlu E, 3.baskı, Selçuk Ün.Basımevi, Konya.
Resources	: İMMÜNOLOJİ (2005) Diker, KS. Medisan, ANKARA.
Documents	: VETERINARY IMMUNOLOGY (2008) Tizard I. 8th Ed. Saunders Co., USA.,ORAL MİKROBİYOLOJİ ve İMMÜNOLOJİ (2003) Erganiş O, Öztürk A. Nob
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction and History of Immunology		
2	Innate Immunity		
3	Adaptive Immunity		
4	Organs and Cells of the Immune System		
5	Antigens and Their Properties		
6	Antibodies (Immunoglobulins)		
7	The Complement System		
8	Midterm Exam		
9	MHC and Antigen Presentation		
10	Cytokines and Cell Signaling		
11	Regulation of Immune Response		
12	Type I-II-III-IV Hypersensitivity		
13	Vaccines and Vaccination Strategies		
14	Serological Diagnostic Methods		
15	Immunodeficiencies and Autoimmunity		
16	Final Exam		

Recommended Optional Programme Components	
VET255 SEROLOGY	

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the components and working principles of the immune system.
C02	Explains the molecular interaction between antigen and antibody.
C03	Explains the immunopathology of hypersensitivity and autoimmune reactions occurring in animals.
C04	Applies basic serological tests in a laboratory setting.
C05	Plans appropriate vaccination protocols for animal diseases.
C06	Differentiates animal diseases that cause primary and secondary immunodeficiency states.
C07	Evaluates the mechanism of maternal immunity and its importance in protecting newborn animals.
C08	Discusses the applications of modern immunobiotechnological advancements in veterinary diagnosis and treatment.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	3	2	3	2	2	3	4	1	1	2	1	1	3	4	1	1	1	2	4
C01	5	3	4	1	1	2	2	1	1	1	1	1	3	3	2	1	1	1	3
C02	5	2	4	1	1	2	2	1	1	1	1	1	2	5	1	1	1	2	3
C03	4	2	5	2	2	1	3	1	3	1	1	1	4	3	1	1	1	2	2
C04	2	3	3	5	1	3	2	1	1	1	1	1	2	4	1	1	1	3	5
C05	2	2	4	1	4	3	4	1	1	5	2	1	5	5	3	1	1	2	5
C06	4	2	5	1	2	5	4	1	1	3	1	1	5	3	1	1	1	2	3
C07	4	2	4	1	3	1	3	1	3	2	1	1	3	4	1	1	1	2	2
C08	4	5	4	4	1	4	5	1	3	2	2	1	3	4	1	1	1	2	2

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET241 POULTRY PHYSIOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET241	POULTRY PHYSIOLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach physiological processes in poultry, including blood structure, blood cells and functions; cardiovascular system; basal metabolic rate; digestion and absorption physiology; excretory system; respiratory system; nervous system; hormones; male and female reproductive systems; egg formation; thermoregulation; and migration.

Teaching Methods and Techniques:

Hemostasis in poultry, circulatory physiology, respiratory physiology, digestive physiology, energy metabolism, thermoregulation, excretory physiology, muscle physiology, flight physiology, hormones, male and female reproductive physiology, and sensory physiology are included.

Prerequisites:

Course Coordinator:

Prof.Dr. HURREM TURAN AKKOYUN

Instructors:

Prof.Dr. HURREM TURAN AKKOYUN

Assistants:

Recommended Sources

Textbook	: Reece, W. O. (1997). Physiology of domestic animals (2nd ed.). Williams and Wilkins.
Resources	:
Documents	: Guyton, A. C., & Hall, J. E. (2001). Textbook of medical physiology (10th ed.; H. Çavuşoğlu, Trans.). W. B. Saunders Company; Yüce Yayımcılık A.Ş
Assessments	:
Exams	: Whittow, G. C. (2000). Avian physiology (5th ed.). Academic Press. 307 Reece, W. O. (1997). Physiology of domestic animals (2nd edition). Williams and Wilkins. Whittow, G. C. (2000). Avian physiology (5th edition)

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Important poultry species and their basic physiological and production characteristics are covered.	Basic knowledge of poultry taxonomy ar	Reece, W. O. (1997). Physiology of dom
2	Chicken genetics, breeding, and breed characteristics are examined.	Basic concepts of genetics should be rev	Reece, W. O. (1997). Physiology of dom
3	General body structure and anatomical features of poultry are covered.	Basic anatomy knowledge should be rev	Reece, W. O. (1997). Physiology of dom
4	The skeletal system and its structural features in poultry are examined.	Basic bone and skeletal anatomy should	Reece, W. O. (1997). Physiology of dom
5	Muscular and circulatory system physiology in poultry is covered.	Basic muscle and cardiovascular physiolo	Reece, W. O. (1997). Physiology of dom
6	Respiratory system physiology is examined.	Respiratory anatomy and gas exchange	Reece, W. O. (1997). Physiology of dom
7	Digestive system physiology is covered.	Structure and function of digestive orga	Reece, W. O. (1997). Physiology of dom
8	Midterm examination is conducted.		
9	Digestion physiology of feeds and nutrient absorption processes are examined.	Digestion and nutrition physiology shoul	Reece, W. O. (1997). Physiology of dom
10	Nervous system and physiological control mechanisms in poultry are covered.	Nervous system physiology should be re	Reece, W. O. (1997). Physiology of dom
11	Böbrek ve endokrin sistem fizyolojisi tekrar edilmelidir.	Renal and endocrine physiology should l	Reece, W. O. (1997). Physiology of dom
12	Male reproductive system physiology is covered.	Reproductive anatomy should be review	Reece, W. O. (1997). Physiology of dom
13	Female reproductive system and egg formation physiology are examined.	Female reproductive anatomy and egg f	Reece, W. O. (1997). Physiology of dom
14	Introduction to incubation practices is provided, and the physiological effects of incubation conditions (temperature, humid	Students are required to review basic kr	Reece, W. O. (1997). Physiology of dom
15	Embryonic development processes in poultry are physiologically detailed, and the developmental stages during incubation	Basic knowledge of embryonic developm	Reece, W. O. (1997). Physiology of dom
16	Final examination is conducted.		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the basic and species-specific physiological characteristics of birds and the functions of major organ systems.
C02	Explains the physiological characteristics of circulatory, respiratory, digestive, excretory, nervous, and reproductive systems in poultry, as well as embryonic development processes.
C03	Interprets physiological knowledge in poultry production conditions and selects appropriate husbandry practices.
C04	Plans and implements basic husbandry, feeding, and environmental management practices in poultry production.
C05	Integrates physiological knowledge and husbandry practices in poultry production systems to evaluate animal health and productivity in a sustainable manner.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P11	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	9	9
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	9	9
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	3	3	4	4	4	4	4	4	4	4	4	4	5	5	3	3	4
C01	4	3	3	3	3	3	3	3	2	2	2	2	3	3	2	2	2	2	2
C02	4	4	4	3	3	3	3	3	2	2	2	2	3	4	2	2	2	2	2
C03	4	4	4	4	3	3	3	4	3	2	2	2	4	3	3	3	2	3	3
C04	3	3	3	3	3	3	3	3	3	2	2	2	3	4	3	3	2	3	2
C05	4	4	4	4	4	4	4	4	4	3	3	3	4	3	4	4	2	4	3

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET231 LIVER HISTOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET231	LIVER HISTOLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To teach histology of the liver

Teaching Methods and Techniques:

Theory, laboratory supplies and materials of practical lessons.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Banu KANDİL

Instructors:

Assistants:

Recommended Sources	
Textbook	: 1-Veteriner Özel Histoloji, Ed.; Aytekin Özer
Resources	: 2-Özel Histoloji, Atilla Tanyolaç
Documents	: Konu (İngilizce),B,Embryonic development of the liver,Histology of the liver,Hepatocytes,Kupffer cells and fat storing cells,Blood circulation in liver,
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 60
Social Sciences	:	Field	: 40

Course Content			
Week	Topics	Study Materials	Materials
1	Embryonic development of the liver	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V
2	Histology of the liver	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V
3	Hepatocytes	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V
4	Kupffer cells and fat storing cells	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V
5	Blood circulation in liver	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V
6	The functions of the liver	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V
7	Metabolic functions of the liver	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V
8	Blood clotting and liver	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V
9	Liver and gall bladder	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V
10	Pit cells and fatty liver syndrome	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V
11	Oil red O staining	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V
12	Black oil staining from water	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V
13	Evaluation of the liver sections	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V
14	Evaluation of the liver sections	Lecture Notes	1.Kalaycıoğlu L, Serpek B, Nizamlioğlu V

Course Learning Outcomes	
No	Learning Outcomes
C01	to learn embryonic development and histology of the liver
C02	to learn liver histology
C03	to learn Kupffer cell
C04	To learn metabolic functions of the liver
C05	To learn basic functions of the liver

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET259 CAREER PLANNING					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET259	CAREER PLANNING	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to enable veterinary students to recognize career planning processes, gain professional awareness, evaluate their individual competencies, and develop career goals for national and international professional fields.

Teaching Methods and Techniques:

This course covers career planning processes, professional competencies, self-assessment, effective communication, entrepreneurship, academic and sectoral career opportunities, CV preparation, interview techniques, and lifelong learning concepts.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Kübranur YILDIZ BAYHAN

Instructors:

Asist Prof.Dr. Sefa ÜNER

Assistants:

Recommended Sources	
Textbook	: https://yetenekkapisi.gov.tr/
Resources	: https://yetenekkapisi.gov.tr/
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 100
Social Sciences	: 0	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to Career Planning and Basic Concepts		
2	Career Fields in Veterinary Medicine		
3	Self-Awareness and Personal Competency Analysis		
4	Effective Communication and Professional Communication Skills		
5	Academic Career and Postgraduate Education Opportunities		
6	Career Opportunities in Public and Private Sectors		
7	Entrepreneurship and Leadership Skills		
8	Midterm Exam		
9	CV/Resume Preparation Techniques		
10	Job Interview and Interview Techniques		
11	Professional Ethics and Responsibility		
12	Teamwork and Problem-Solving Skills		
13	Digital Competencies and Career Management		
14	International Career Opportunities and Mobility Programs		
15	Career Plan Presentations and General Evaluation		
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains career planning processes and national/international career opportunities in the field of veterinary medicine.
C02	Analyzes personal knowledge, skills, and competencies and develops professional development goals.
C03	Applies effective communication, teamwork, and ethical behavior principles in the veterinary profession.
C04	Uses digital resources, scientific information access tools, and current sectoral data in professional career planning.
C05	Plans professional application processes by using CV preparation and job interview techniques.
C06	Evaluates public sector, private sector, and entrepreneurship opportunities in veterinary medicine.
C07	Develops individual strategies for career development within the framework of lifelong learning.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
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P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	8	8
Total Work Load			58
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	5	3	2	4	5	3	3	5	4	2	3	3	4	4	5	5	4	3
C01	4	5	3	2	4	4	3	3	3	5	4	2	3	3	4	4	4	3	3
C02	4	3	3	2	3	4	4	4	4	4	5	2	5	4	5	4	4	3	3
C03	4	4	3	2	5	5	4	4	5	5	4	2	4	5	5	5	4	3	3
C04	4	5	3	3	4	5	4	3	3	4	4	2	4	4	4	5	5	4	4
C05	4	4	2	2	3	4	3	3	3	4	5	2	5	4	4	4	5	4	3
C06	4	4	3	2	3	4	3	3	4	4	5	2	4	4	3	5	4	3	3
C07	5	5	3	2	4	5	4	4	4	5	5	2	4	5	4	5	5	4	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET251 LABORATORY WORKING PRINCIPLES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET251	LABORATORY WORKING PRINCIPLES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to identify potential risks caused by physical, chemical, and biological agents in laboratory settings by taking personal protective measures, to apply appropriate precautions against these risks, and to ensure a safe laboratory environment.

Teaching Methods and Techniques:

The content of this course includes the use of personal protective measures in laboratory work, identification of risks caused by physical, chemical, and biological agents, precautions against these risks, and the establishment of a safe laboratory environment.

Prerequisites:

Course Coordinator:

Prof.Dr. HURREM TURAN AKKOYUN

Instructors:

Prof.Dr. HURREM TURAN AKKOYUN

Assistants:

Recommended Sources	
Textbook	: Refik Saydam Hifzissihha Merkezi Presidency. (n.d.). Laboratory safety working techniques.
Resources	: Refik Saydam Hifzissihha Merkezi Presidency. (n.d.). Laboratory safety working techniques.
Documents	:
Assignments	:
Exams	:

Course Category	
Mathematics and Basic Sciences	Education :
Engineering	Science :
Engineering Design	Health : 100
Social Sciences	Field :

Course Content	
Week	Topics
1	Laboratory working principles are covered.
2	General laboratory information is covered.
3	Laboratory instruments and materials are covered.
4	Types of solutions and their preparation are covered.
5	Laboratory instruments and devices are covered.
6	Cleaning of laboratory materials is covered.
7	First aid in laboratory work is covered.
8	Midterm examination is conducted.
9	Safety signs in laboratory safety are covered.
10	Storage of chemical substances is covered.
11	Transportation of chemical substances is covered.
12	Storage and stacking rules of chemical substances are covered.
13	Laboratory accidents and preventive measures are covered.
14	Green chemistry and its importance are covered.
15	Storage and disposal of chemical waste are covered.
16	Final examination is conducted.

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains laboratory safety rules, hazard and safety symbols, and basic first aid principles.
C02	Applies personal safety precautions and proper laboratory working procedures.
C03	Analyzes laboratory working principles and safety standards and selects appropriate procedures.
C04	Applies correct intervention and first aid procedures in case of laboratory accidents.
C05	Carries out waste management and safety practices in the laboratory within ethical and environmental responsibility frameworks.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P16	Understand the relationships between concepts and concepts related to the field
P18	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P15	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P12	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P11	All surgical interventions in the field of scientific methods and meticulous
P08	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P07	In animal breeding and feeding areas will have theoretical and practical knowledge
P06	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P05	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P10	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P14	Understand the national and international legislation about the area
P19	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	16	16
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	16	16
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	3	3	4	4	4	3	4	3	4	3	4	3	4	2	2	3	4
C01	4	4	4	3	3	3	3	2	3	3	3	2	3	3	3	2	2	2	3
C02	4	4	4	3	3	4	4	2	3	3	3	3	4	3	3	2	2	3	3
C03	4	4	4	4	3	4	4	3	4	3	3	3	4	3	3	3	3	4	4
C04	4	4	3	4	3	4	4	3	3	3	3	3	4	3	3	3	3	4	3
C05	4	4	4	4	4	4	4	3	4	3	3	3	4	4	4	4	2	4	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET247 MEDICAL TREATMENT PRINCIPLES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET247	MEDICAL TREATMENT PRINCIPLES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The course aims to equip students with the fundamental principles of medical treatment of diseases, equipping them with knowledge and skills in drug selection, dosage, routes of administration, duration of treatment, and patient safety. Furthermore, it aims to develop an approach that considers scientific evidence, patient characteristics, and rational drug use in treatment decisions. By the end of the course, students will be able to evaluate medical treatment processes from a holistic perspective, develop individualized and evidence-based treatment plans, and implement professional practices with an awareness of their ethical and legal responsibilities.

Teaching Methods and Techniques:

1. Introduction and Basic Concepts Definition and Objectives of Medical Treatment Principles of Rational Drug Use Evidence-Based Medicine Approach 2. Fundamental Principles of Pharmacotherapy Drug Selection Criteria (Efficacy, Safety, Cost, Appropriateness) Dosage Calculation Principles Routes of Administration and Bioavailability Pharmacokinetic and Pharmacodynamic Principles 3. Preparation of the Treatment Plan Patient-Specific Factors (Age, Weight, Concomitant Diseases, Pregnancy, Pediatrics, Geriatric Patients) Drug Interactions and Side Effect Management Polypharmacy and Risks 4. Treatment Approaches in Special Situations Differences in Treatment for Acute and Chronic Diseases Treatment Principles for Infectious Diseases (Empirical and Targeted Therapy) Principles of Pain Management Chronic Disease Management (Hypertension, Diabetes, COPD, etc.) 5. Treatment Monitoring and Follow-up Assessment of Clinical Response Treatment with Laboratory and Imaging Monitoring Recognition and management of medication side effects 6. Increasing treatment adherence Patient Safety and Ethical Aspects Medication errors and their prevention Patient information and consent Legal and ethical responsibilities 7. Current and Future Approaches Personalized medicine (pharmacogenetics, pharmacogenomics) New drug development processes Alternative and complementary therapies

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Assistants:

Recommended Sources	
Textbook	: Plumb`s Veterinary Drug Handbook, 10th Edition
Resources	: Papich, M. G. (2020). Papich Handbook of Veterinary Drugs-E-Book: Papich Handbook of Veterinary Drugs-E-Book. Elsevier Health Sciences.
Documents	: Riviere, J. E., & Papich, M. G. (Eds.). (2018). Veterinary pharmacology and therapeutics. John Wiley & Sons.
Assignments	: Papich, M. G. (2020). Papich Handbook of Veterinary Drugs-E-Book: Papich Handbook of Veterinary Drugs-E-Book. Elsevier Health Sciences.,Veteri
Exams	:

Course Category	
Mathematics and Basic Sciences	:
Engineering	:
Engineering Design	:
Social Sciences	:
Education	:
Science	:
Health	: 100
Field	:

Course Content		
Week	Topics	Study Materials Materials
1	Introduction, purpose, and importance of the courseIntroduction to medical therapy: basic concepts	
2	Principles of rational drug useEvidence-based treatment approach	
3	Pharmacokinetic principles (absorption, distribution, metabolism, excretion)Dosage calculation and administration routes	
4	Pharmacodynamic principlesDrug mechanisms of action	
5	Factors affecting drug selectionPatient characteristics (age, weight, pregnancy, pediatric, geriatric patient)	
6	Drug interactionsSide effects and adverse drug reactions	
7	Treatment approaches for acute and chronic diseasesEmpirical and targeted therapy	
8	Midterm Exam (Theoretical)	
9	Principles of medical treatment in infectious diseasesIntroduction to antibacterial therapy	
10	Treatment approaches for chronic diseases (hypertension, diabetes, COPD, etc.)	
11	Fundamentals of pain managementSupportive and symptomatic treatment approaches	
12	Patient safety and prevention of medication errorsClinical monitoring and evaluation of treatment response	
13	Ethical and legal responsibilities in medical treatmentIncreasing patient information, consent, and treatment compliance	
14	Current and future approaches (personalized treatment, pharmacogenetics, new drug development processes, alternative t	

Recommended Optional Programme Components	
VET511 PHARMACOLOGY-TOXICOLOGY	
VET309 PHARMACOLOGY-I	
VET415 TOXICOLOGY AND ENVIRONMENTAL PROTECTION	

Course Learning Outcomes	
No	Learning Outcomes
C01	Students who successfully complete this course will be able to: 1. Explain the basic concepts and objectives of medical treatment. 2. Evaluate the factors affecting drug selection (efficacy, safety, cc

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area

P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	14	1	14
Assignment	0	%0	Assignments	6	1	6
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	1	6	6
Project	0	%0	Practice	0	0	0
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	6	6
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	4	4	5	5	4	4	5	4	5	4	4	5	5	4	5

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET235 PROFESSIONAL ENGLISH-III					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET235	PROFESSIONAL ENGLISH-III	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To teach the students the general terminology in English and Turkish in related fields.

Teaching Methods and Techniques:

The course is a continuation of the Professional English II course in which students are taught the general terminology in English and in Turkish.

Prerequisites:

Course Coordinator:

Asist. Prof. Dr. Ayfer FINDIK PAKROOH

Instructors:

Assistants:

Recommended Sources

Textbook	:	Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Resources	:	Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS
2	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS
3	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS
4	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS
5	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS
6	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS
7	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS
8	Midterm exam	Course of the study	subjects planned to Medical Passages & Vocabulary for ÜDS
9	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS
10	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS
11	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS
12	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS
13	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS
14	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS
15	Medikal English text and Turkish translation	subjects should be chosen as appropriate	Medical Passages & Vocabulary for ÜDS

Course Learning Outcomes

No	Learning Outcomes
C01	Learning the terminology of the English language.
C02	Acquiring the ability to understand intermediate and advanced medical articles.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
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P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	15	2	30
Hours for off-the-c.r.stud	15	2	30
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			62
ECTS Credit of the Course			2

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET215 PARASITOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET215	PARASITOLOGY	3	2	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of the course is to provide students with basic knowledge of the fundamental concepts of parasitology, major parasite groups, and the diagnosis, prevention, and control of parasitic diseases.

Teaching Methods and Techniques:

This course covers the basic concepts of parasitology, parasite-host relationships, parasite groups, transmission routes, and the general characteristics of parasitic diseases.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Burçak ASLAN ÇELİK

Instructors:

Prof. Murat KARA

Assistants:

Recommended Sources	
Textbook	: Cheng, T. C. (2012). General parasitology. Elsevier.
Resources	: Özcel, A. (2013). Parasitic diseases in veterinary medicine (Vols. 1–2). Turkish Society for Parasitology.
Documents	: Göçmen, B. (2014). General parasitology (3rd ed.). Ege University Press.
Assignments	: Dogel', V. A. (1964). General parasitology.
Exams	: Özcel, A. (2013). Parasitic diseases in veterinary medicine (Vols. 1-2). Turkish Society for Parasitology. Göçmen, B. (2014). General parasitology (3rd ed.). Ege University Press.

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to parasitology; definition, scope and importance of parasitic diseases.		
2	Biological associations; forms of symbiosis and general characteristics of host-parasite relationships.		
3	Types of parasitism; classification of parasites according to host-parasite relationships.		
4	History of parasitology; development of parasitology and its importance in veterinary medicine.		
5	Localization of parasites in hosts; localization according to organs, tissues and systems.		
6	Development of parasites; developmental types, life cycles and host utilization.		
7	Nomenclature of parasites and parasitic diseases; basic terminology and naming rules.		
8	Midterm examination		
9	Origin of parasites; emergence and evolution of parasitism, and adaptation mechanisms.		
10	Reproduction and multiplication in parasites; reproductive types and multiplication strategies.		
11	Harmful effects of parasites; pathogenic effects in hosts and disease mechanisms.		
12	Exit of parasites from hosts and transmission routes; transmission mechanisms and epidemiological importance.		
13	Host reactions against parasites; immune response and resistance mechanisms.		
14	Symptoms in parasitic diseases; clinical signs and factors affecting the course of disease.		
15	Prognosis, treatment and prevention in parasitic diseases; treatment and control approaches.		
16	Final examination		

Course Learning Outcomes	
No	Learning Outcomes
C01	Define the basic concepts and terminology of parasitology.
C02	Explain parasite-host relationships, life cycles, and transmission routes of parasites.
C03	Distinguish important parasite groups in veterinary medicine.
C04	Compare the morphological and biological characteristics of parasites.
C05	Evaluate diagnostic, prevention, and control approaches for parasitic diseases.
C06	Relate basic parasitological knowledge to professional practices.
C07	Express parasitological knowledge using scientific terminology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		%0

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			0
ECTS Credit of the Course			0

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant



Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET255		SEROLOGY			
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET255	SEROLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach students the fundamental principles of antigen-antibody interactions and to convey the mechanisms, application areas, and interpretation of serological tests used in the diagnosis of infectious diseases.

Teaching Methods and Techniques:

It covers the serological basis of the immune system, the structure of antigens and antibodies, and laboratory diagnostic methods such as precipitation, agglutination, ELISA, and fluorescent antibody techniques.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Özgül GÜLAYDIN

Instructors:

Associate Prof.Dr. Özgül GÜLAYDIN Asist Prof. Dr. Songül ÖTKÜNAstist Prof. Dr. Muazzez YEŞİLYURT

Assistants:

Research Assist. Mustafa Berkan GÜL

Recommended Sources	
Textbook	: 1-Erganiş O, İstanbulluoğlu E, İmmünoloji, Mimoza Yayınları, 1993.
Resources	: 2-Diker S, İmmünoloji, Medisan Yayınları, 1998.
Documents	: 3-Delves PJ et al., Roitt's Essential Immunology, Blackwell publishing, 2008.
Assignments	: 4- Tizard IR, Veterinary Immunology: An Introduction, Saunders Co. Ltd, 2004. 5-J.M. Cruse & R.E. Lewis, Atlas of Immunology, Taylor & Francis C
Exams	: 1-Erganiş O, İstanbulluoğlu E, İmmünoloji, Mimoza Yayınları, 1993. 2-Diker S, İmmünoloji, Medisan Yayınları, 1998. 3-Delves PJ et al., Roitt's Essent

Course Category	
Mathematics and Basic Sciences	Education
Engineering	Science
Engineering Design	Health
Social Sciences	Field
	100

Course Content	
Week	Topics
1	Introduction to Serology and History
2	Structure of Antigens and Antibodies
3	Mechanisms of Antigen-Antibody Interactions
4	Precipitation Tests
5	Agglutination Tests
6	Complement Fixation Test (CFT)
7	Neutralization Tests
8	Midterm Exam
9	Labeled Antibody Techniques: ELISA
10	Immunofluorescence and Immunoperoxidase Tech.
11	Immunoblotting (Western Blot) Method
12	Rapid Diagnostic Tests (Lateral Flow)
13	Validation and Quality Control of Serological Tests
14	Interpretation of Results and Concept of Titer
15	Recent Advances and Automation in Serology
16	Final Exam

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the molecular basis of antigen-antibody binding.
C02	Defines the classification of serological methods used in veterinary medicine.
C03	Selects the appropriate serological test for the diagnosis of infectious diseases.
C04	Clinically analyzes laboratory data and antibody titers.
C05	Reports the results of serological tests within ethical and scientific rules.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	4	4
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	6	6
Total Work Load			66
ECTS Credit of the Course			2

Course Contribution To Program															
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant															
	P01	P02	P03	P04	P06	P07	P09	P10	P11	P13	P14	P15	P18	P19	
All	2	3	3	2	2	3	1	1	1	3	2	2	2	4	
C01	5	2	3		2	3				2	3			4	
C02	5	3	3	4	2	3				3	3			4	
C03		2	5	2	3	4	2			5		3	4	5	
C04			5	4	3	4				5	4	3	5	5	
C05		4						3	5	2		4	3	3	

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET229 PHYSIOPATHOLOGY OF DIGESTIVE SYSTEM					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET229	PHYSIOPATHOLOGY OF DIGESTIVE SYSTEM	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach pathological changes in the digestive system, respiratory system, bone, joint, muscle, and tendon diseases, as well as veterinary oncology, by classifying them according to animal species and organ systems.

Teaching Methods and Techniques:

The aim of this course is to teach pathological changes in the digestive system, respiratory system, bone, joint, muscle, and tendon diseases, as well as veterinary oncology, by classifying them according to animal species and organ systems. In addition, it is intended to provide knowledge about the etiology, pathogenesis, and macroscopic and microscopic characteristics of diseases affecting these systems.

Prerequisites:

Course Coordinator:

Prof.Dr. HURREM TURAN AKKOYUN

Instructors:

Prof.Dr. HURREM TURAN AKKOYUN

Assistants:

Recommended Sources

Textbook	:	Erer, H., & Kiran, M. M. (n.d.). Veterinary systemic pathology and veterinary oncology lecture notes.
Resources	:	
Documents	:	Haziroğlu, R., & Milli, Ü. H. (n.d.). Veterinary pathology (Vols. I–II).
Assignments	:	
Exams	:	Jubb, K. V. F., Kennedy, P. C., & Palmer, N. (n.d.). Pathology of domestic animals (Vols. I–III). Jubb, K. V. F., Kennedy, P. C., & Palmer, N. (n.d.). Pathology of domestic animals (Vols. I–III). Haziroğlu, R., & Milli, Ü. H. (n.d.). Veterinary pathology

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction to the digestive system and oral cavity pathology is covered. The general structure and function of the digestive system is reviewed.	Students are expected to review the basic knowledge of the digestive system.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
2	Within the digestive system, tonsillar pathology is examined.	Students are expected to acquire basic knowledge of the digestive system.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
3	Within the digestive system, pharyngeal and esophageal pathology is examined.	Students are expected to acquire basic knowledge of the digestive system.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
4	Forestomach pathology (rumen, reticulum, and omasum) is examined. The anatomical structure and physiological function of the forestomach is reviewed.	Basic knowledge of ruminant forestomach anatomy and physiology.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
5	Gastric pathology is examined. Pathological changes associated with the structure and function of the stomach in monogastric animals are reviewed.	Basic knowledge of stomach anatomy and physiology.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
6	A general evaluation of forestomach and gastric pathology is conducted. Previously covered topics are reviewed, and digestive system pathology is introduced.	Previously covered topics on forestomach and gastric pathology.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
7	Introduction to liver pathology is covered. The anatomical and functional structure of the liver is reviewed, and hepatocellular and biliary system pathology is introduced.	Basic knowledge of liver anatomy and physiology.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
8	Midterm examination is conducted.		
9	Biliary system pathology is examined. Inflammatory and obstructive diseases of the bile ducts and gallbladder, as well as biliary system neoplasms, are reviewed.	Basic knowledge of biliary system anatomy and physiology.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
10	Introduction to pancreatic pathology is covered. The exocrine and endocrine functions of the pancreas are reviewed, and pancreatic diseases are introduced.	Basic knowledge of pancreatic anatomy and physiology.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
11	Peritoneal pathology is examined. Peritonitis, peritoneal inflammation, and pathological processes involving the abdominal cavity are reviewed.	Basic knowledge of peritoneal anatomy and physiology.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
12	Abdominal cavity pathology is examined. Common inflammatory, infectious, and obstructive processes in the abdominal cavity are reviewed.	Basic knowledge of abdominal cavity anatomy and physiology.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
13	The formation, composition, and normal characteristics of feces are covered. Changes in color, consistency, odor, and content are reviewed.	Basic knowledge of distal digestive system anatomy and physiology.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
14	Introduction to the neural control of the gastrointestinal tract is covered. The enteric nervous system, its relationship with the autonomic nervous system, and the role of the gut-brain axis are reviewed.	Basic knowledge of nervous system anatomy and physiology.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
15	Neural control mechanisms of the gastrointestinal tract are examined in detail. Neural and neurohumoral regulation of motility and secretion are reviewed.	Review of the enteric nervous system and its role in gastrointestinal function.	Erer, H., & Kiran, M. M. Veterinary systemic pathology and veterinary oncology lecture notes.
16	Final examination is conducted.		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the major pathological changes in the upper parts of the digestive system and their underlying mechanisms.
C02	Explains the fundamental pathological characteristics of diseases affecting the digestive system, liver, biliary system, pancreas, and peritoneum.
C03	Classifies pathological processes of the digestive system according to their clinical and morphological characteristics.
C04	Analyzes pathological findings of the liver, biliary system, pancreas, and abdominal cavity and interprets their possible pathophysiological consequences.
C05	Evaluates the relationships among neural control of the gastrointestinal tract, feces formation, and digestive system pathologies, and interprets disease processes from a holistic perspective.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development and the role of the veterinary profession.
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment	Quantity	Percentage
In-Term Studies		
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET217 ANIMALBREEDING-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
3	VET217	ANIMALBREEDING-I	4	3	4

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

Breeds and Species of farm animals. Morphological and physiological traits. Animal Breeding, Barns and Environment Conditions.

Teaching Methods and Techniques:

Includes general informations on overview of livestock animals, domestication, species, breed, fertility, growth, meat yield, milk yield, psychological characteristics, the environment and animals, cattle and horse breeding

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Memiş BOLACALI

Instructors:

Assistants:

Recommended Sources	
Textbook	: 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (1999). Hayvan Yetiştiriciliği ve Temel Bilgiler. Ankara Üniversitesi Veteriner Fakültesi, Ankara 2) ALPAN Or
Resources	: 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (1999). Hayvan Yetiştiriciliği ve Temel Bilgiler. Ankara Üniversitesi Veteriner Fakültesi, Ankara 2) ALPAN Or
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 100

Course Content			
Week	Topics	Study Materials	Materials
1	Dairy Cattle Breeding World And Türkiye	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
2	Dairy Cattle Breeds, Yield Traits	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
3	Dairy Cattle Fertility Traits	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
4	Dairy Cattle Milk Yield	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
5	Environmental Conditions for Dairy Cattle	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
6	Dairy Cattle Barns, Buildings	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
7	Dairy Cattle Selection For Replacement	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
8	Midterm exam	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
9	Breeding Methods For Dairy Cattle	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
10	Types of feeding for domestic animals	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
11	The effects of Factors for Feeding performances	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
12	Horse races	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
13	Horse raising	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
14	Horse colors, their marks and their walking variety.	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	
15	At donları, nisaneleri, yürüme şekilleri.	Course of the study subjects planned to 1) AKÇAPINAR Halil, ÖZBEYAZ Ceyhan (	

Course Learning Outcomes	
No	Learning Outcomes
C01	Getting basic knowledge about Overview to livestock animals, characters, cattle breeds, care and feeding of cattle
C02	Understanding udder system, lactation, type scoring in dairy cows, beef production
C03	Getting basic knowledge about Horse breeds, body colours in horse breeds, heredity of body colours, inherited defects, age determination, racing, determination of parental
C04	Proposing solutions to the problems encountered in cattle and horse breeding

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	11	11
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	25	25
Total Work Load			120
ECTS Credit of the Course			4

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	1	1	1	1	1	5	1	1	1	1	1	1	1	5	1	1	1
C01	5	5	1	1	1	1	1	4	1	1	1	1	1	1	1	4	1	1	1
C02	5	4	1	1	1	1	1	5	1	1	1	1	1	1	1	5	1	1	1
C03	4	4	1	1	1	1	1	5	1	1	1	1	1	1	1	5	1	1	1
C04	5	5	1	1	1	1	1	4	1	1	1	1	1	1	1	5	1	1	1

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET252 RATIONAL DRUG USE					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET252	RATIONAL DRUG USE	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to enable students to make rational decisions regarding the selection, use, and monitoring of medications, taking into account scientific, economic, and ethical principles. The aim is to equip students with the knowledge and skills to initiate medications for appropriate indications, determine the correct dosage and duration, manage side effects and interactions, and increase patient safety and treatment adherence. By the end of the course, students will have grasped the individual, social, and economic importance of rational drug use, develop an evidence-based and patient-centered approach to prescribing, and develop attitudes and behaviors that will contribute to the prevention of global health problems such as drug abuse and antibiotic resistance.

Teaching Methods and Techniques:

1. Definition and importance of rational drug use 2. Drug use problems at global and national scales 3. Examples of irrational drug use 4. Basic principles of rational drug use (right patient, right drug, right dose, right duration, right cost, right route) 5. Evidence-based drug selection 6. Prescribing process (diagnosis, treatment selection, prescribing rules, clinical decision-making steps) 7. Patient characteristics and their effects on treatment (age, gender, pregnancy, pediatric, geriatric patient) 8. Comorbidities and polypharmacy 9. Drug interactions 10. Adverse drug reactions and side effects 11. Pharmacovigilance and side effect reporting 12. Treatment monitoring: clinical and laboratory evaluation 13. Rational antibiotic use and antibacterial resistance 14. Antimicrobial Stewardship programs 15. Economic and social dimensions of irrational drug use 16. Patient education and improving treatment adherence 17. Ethical responsibilities in drug use 18. Legal regulations and Prescribing policies 19. Alternative approaches to reducing unnecessary medication use 20. Vaccines, probiotics, and supportive therapies 21. Personalized treatment (pharmacogenetics, pharmacogenomics) 22. Digital health applications and e-prescription systems 23. Medication management and resistance monitoring with artificial intelligence

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Assistants:

Recommended Sources	
Textbook	: The Pharmacological Basis of Therapeutics (Ed. L. Goodman, A. Gilman)
Resources	: How to investigate the use of medicines by consumers (Ed. A. K. Chhetri, S. Palaian, P. Mishra, A. Saha, P. Shankar)
Documents	: THE RATIONAL USE OF DRUG AND ANTIBIOTICS (Pinar Yalçın Balgık, Seval Selvi Sarıgül) Rational drug use and the disposal cost of unused medic
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to Rational Drug Use and Basic Concepts		
2	World Health Organization (WHO) Guidelines and Rational Pharmacotherapy Model		
3	Efficacy, Safety, Suitability, and Cost in Drug Selection		
4	Concept and Selection of Personal Medication (P-drug)		
5	Rational Drug Selection for Common Diseases I (Infections, Antibiotics)		
6	Rational Drug Selection in Common Diseases II (Chronic Diseases, Pain Management)		
7	Prescribing Principles and Practices		
8	Drug Interactions and Adverse Effects		
9	Pharmacovigilance and Drug Safety		
10	Drug Use in Special Patient Groups (Children, Pregnant, Elderly, Breastfeeding)		
11	Storage, Disposal, and Environmental Impacts of Medicines		
12	Pharmaceutical Industry, Promotion and Ethical Issues		
13	Patient Education, Communication Skills, and the Consequences of Irrational Drug Use		
14	Case Discussions, Problem-Based Learning, and Summative Assessment		

Recommended Optional Programme Components	
VET309 PHARMACOLOGY-I	

Course Learning Outcomes	
No	Learning Outcomes
C01	• Akılclı ilaç kullanımının tanımı ve önemi • Dünya Sağlık Örgütü (DSO) rehberleri ve 6 adımlı akılcı farmakoterapi modeli • İlaç seçiminde etkinlik, güvenlik, uygunluk ve maliyet

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows; located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals

Assessment	Quantity	Percentage
In-Term Studies		
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	6	6
Practice	3	1	3
Laboratory	0	0	0
Project	0	0	0
Final examination	1	9	9
Total Work Load			60
ECTS Credit of the Course			2

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET226 ARI DISEASES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET226	ARI DISEASES	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to teach the etiology, epidemiology, pathogenesis, diagnosis, prevention, and control methods of major parasitic, bacterial, viral, and fungal diseases in honey bees.

Teaching Methods and Techniques:

Classification, biology, transmission routes, clinical findings, laboratory diagnostic methods, prevention, and control strategies of major parasitic, bacterial, viral, and fungal diseases in honey bees are covered.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Burçak ASLAN ÇELİK

Instructors:

Associate Prof.Dr. Ceylan CEYLAN

Assistants:

Recommended Sources	
Textbook	: Lecture Notes on Bee Diseases
Resources	: Beekeeping and Honey Bee Diseases
Documents	: Veterinary Parasitology and Entomology Resources
Assignments	: Beekeeping, products, diseases
Exams	: https://acikders.ankara.edu.tr/pluginfile.php/216859/mod_resource/content/1/10.%20Ar%C4%B1%20hastal%C4%B1klar%C4%B1.pdf

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Nosemiasis		
2	Varroaosis		
3	Tracheal mites		
4	Bee louse		
5	American Foulbrood		
6	European Foulbrood		
7	Septisemi		
8	Midterm exam		
9	Stonebrood		
10	Chalkbrood		
11	Cronic Honeybee paralysis, Sacbrood		
12	Nutrition disorders and Wax Moths		
13	Vespidae		
14	Varoasis		
15	Nosema		
16	Mid term final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines major disease agents seen in honey bees.
C02	Explains transmission routes of bee diseases.
C03	Compares clinical findings of bee diseases.
C04	Applies diagnostic methods for bee diseases.
C05	Evaluates prevention and control methods against bee diseases.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P11	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	8	8
Total Work Load			30
ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	3	4	4	4	4	4	2	1	1	1	1	3	5	5	1	5	5
C01	4	3	5	4	3	4	5	5	5	3	3	3	5	3	5	4	4	4	4
C02	5	5	3	4	5	5	4	3	4	4	5	5	3	5	3	5	5	4	5
C03	5	4	4	5	3	4	5	4	5	3	5	3	4	4	5	5	4	5	3
C04	4	5	4	5	4	5	5	5	3	5	4	4	4	5	3	3	5	4	5
C05	5	3	4	5	3	4	5	5	4	4	4	3	4	5	3	5	3	4	3

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET248 Vaccine Preparation Techniques				
Semester	Course Code	Course Name	L+P	Credit
4	VET248	Vaccine Preparation Techniques	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with theoretical and practical knowledge about vaccine production processes, vaccine preparation techniques, quality control, biosafety, and vaccination strategies within the scope of veterinary biological products.

Teaching Methods and Techniques:

Vaccines and application methods against diseases

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Dr. Öğr. Üyesi AYFER FINDIK

Instructors:

Assistants:

Research Assist. Erdal Polat

Recommended Sources	
Textbook	: This course covers preparation methods, production stages, quality control processes, biosafety practices, and vaccination programs of live, inactiv.
Resources	: Veterinary Virology: Murphy FA, Gibbs EPJ, Horzinek MC, Studdert MJ Principles of Virology. Molecular Biology, Pathogenesis and Control of Animal
Documents	:
Assignments	:
Exams	:

Course Category	
Mathematics and Basic Sciences	:
Engineering	:
Engineering Design	:
Social Sciences	:
Education	:
Science	:
Health	: 100
Field	:

Course Content		
Week	Topics	Study Materials
1	ntroduction to vaccine technologies and basic concepts	
2	Classification of veterinary vaccines	
3	Preparation techniques of live attenuated vaccines	
4	Preparation techniques of inactivated vaccines	
5	Recombinant and vector vaccine technologies	
6	mRNA and next-generation vaccine technologies	
7	Cell culture systems and virus production techniques	
8	midterm exam	
9	Adjuvants and vaccine formulations	
10	Quality control and standardization in vaccines	
11	Biosafety practices in veterinary biological products	
12	Sterilization and contamination control in vaccine production	
13	Storage, transportation, and cold chain practices of vaccines	
14	Vaccination programs and field applications in veterinary medicine	
15	Current vaccine technologies and scientific developments	
16	Final Exam	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the classification, production principles, and mechanisms of action of veterinary vaccines
C02	Compares the preparation methods of live, inactivated, recombinant, and next-generation vaccines.
C03	Applies laboratory equipment, cell culture systems, and biosafety practices used in vaccine production.
C04	Analyzes quality control and sterilization practices in vaccine production processes.
C05	Evaluates vaccination programs used in veterinary medicine in terms of animal health and preventive medicine.
C06	Aşılann saklanması, taşınması ve soğuk zincir süreçlerini yönetir.
C07	Develops solution proposals in accordance with scientific, ethical, and legal principles in the production and use of veterinary biological products.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	5	5	5	5	5	5	3	3	4	5	2	5	5	5	3	5	5	5
C01	5	4	5	3	3	4	4	2	2	3	3	2	4	4	4	2	3	3	3
C02	4	4	5	3	4	4	4	2	2	3	3	2	4	4	4	2	3	3	3
C03	3	4	5	5	4	5	5	3	3	4	4	2	5	5	4	3	5	5	5
C04	3	3	5	4	4	5	5	3	3	4	4	2	5	5	5	3	5	5	5
C05	4	4	5	3	5	5	5	4	4	4	5	2	5	5	5	3	4	4	4
C06	4	5	4	4	4	4	4	3	3	4	4	2	4	4	5	3	4	5	5
C07	4	5	5	4	5	5	5	3	3	5	5		5	5	5	4	4	5	5

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET272 HORSE NUTRITION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET272	HORSE NUTRITION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to analyze the nutrient and energy requirements of horses at different physiological stages, to develop the ability to formulate appropriate rations, and to optimize feeding management in terms of performance, health, and welfare.

Teaching Methods and Techniques:

This course covers the digestive system of horses, nutrient and energy requirements, feed ingredients, principles of ration formulation, and feeding practices according to different physiological stages. It also includes feeding management, the relationship between nutrition and performance, and nutrition-related disease

Prerequisites:

Course Coordinator:

Instructors:

Prof.Dr. Tuncay TUFAN

Assistants:

Recommended Sources	
Textbook	: GÜMÜŞ, R. (2025). Sürdürülebilir At Besleme. Türkiye Klinikleri Animal Nutrition and Nutritional Diseases-Special Topics, 11(1), 55-59.
Resources	: GÜMÜŞ, R. (2025). Sürdürülebilir Beslemede. Türkiye Klinikleri Hayvan Besleme ve Beslenme Hastalıkları-Özel Konular , 11 (1), 55-59.
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to the course and importance of horse nutrition		
2	Digestive system and characteristics of horses		
3	Water and dry matter requirements		
4	Energy requirements		
5	Protein and amino acid requirements		
6	Vitamin and mineral requirements		
7	Feed ingredients: roughages		
8	midterm exam		
9	Feed additives		
10	Principles of ration formulation		
11	Feeding during growth (foals)		
12	Feeding of pregnant and lactating mares		
13	Feeding of performance (race/work) horses		
14	Nutrition-related diseases		
15	Relationship between feeding management and performance		
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Analyzes the nutrient and energy requirements of horses.
C02	Formulates rations appropriate for different physiological stages.
C03	Evaluates feed ingredients used in horse nutrition and their characteristics.
C04	Explains the effects of feeding management on performance and health.
C05	Identifies nutrition-related diseases and develops prevention strategies.
C06	Develops balanced and sustainable feeding programs in horse nutrition.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			48
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
C01	4	4	5	3	4	2	5	4	3	4	4	4	4	3	4	4	5	2	4
C02	3	4	5	4	3	4	4	5	5	4	4	4	4	3	4	5	4	4	5
C03	4	2	3	4	4	5	2	4	3	5	3	3	5	4	3	4	4	5	5
C04	4	3	5	4	4	5	5	3	4	5	3	2	5	5	5	2	4	4	5
C05	5	5	4	5	5	4	5	2	4	5	5	3	3	5	4	5	3	3	5
C06	4	5	5	5	5	5	4	2	3	5	4	5	5	5	5	5	5	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET246 PARASITIC STRUGGLE IN ENVIRONMENTAL HEALTH					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET246	PARASITIC STRUGGLE IN ENVIRONMENTAL HEALTH	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

It is aimed to determine this source in the outbreaks that will occur with parasitic agents and to obtain sufficient information to take necessary control measures.

Teaching Methods and Techniques:

Learning the life cycles, morphologies, prevention and control methods of important parasites which cause parasitic diseases affecting human, animal and environmental health.

Prerequisites:

Course Coordinator:

Instructors:

Asist.Prof.Dr. Burçak ASLAN ÇELİK

Assistants:

Recommended Sources	
Textbook	: Genel Parazitoloji.Güendame SAYGI.Esnaflık Ofset Matbaacılık.ISBN975-94317-1-8.1999
Resources	: Genel Parazitoloji.Güendame SAYGI.Esnaflık Ofset Matbaacılık.ISBN975-94317-1-8.1999
Documents	:
Assignments	:
Exams	:

Course Category	
Mathematics and Basic Sciences	: Education
Engineering	: Science
Engineering Design	: Health
Social Sciences	: Field

Course Content	
Week	Topics
1	Parazitolojinin tanımı, parazitlerin genel özellikleri, sınıflandırılması,
2	Parazit-konak ilişkileri Parazit hastalıklarında tanı yöntemleri
3	Protozoonların genel özellikleri, Önemli barsak protozoonları (Entamoeba histolytica, Entamoeba coli, Giardia intestinalis) ve
4	Önemli kan ve doku protozoonları (Sıtma)
5	T. gondii, Trypanosoma spp, Leishmania spp.
6	Helminthlerin genel özellikleri
7	Barsakta yerleşen sestodlar(Hymenolepis nana, Taenia saginata,, Taenia solium)
8	Ara sınav
9	Dokuda yerleşen sestodlar (Taenia solium Echinococcus granulosus, Echinococcus multilocularis)
10	Nematodlar ve bağışıkta yerleşen ler (Ascaris lumbricoides, Enterobius vermicularis, Trichuris trichiura, Çengelli solucanlar
11	Kan ve dokularda yerleşen nematodlar (Trichinella spiralis, Filariasis etkenleri)
12	Vektör arthropodlar ve genel özellikleri
13	Ektoparazitler ve vektörükleri (Bit,pire uyuz, tahtakurusu,)
14	Sivrisinekler ve Kenelerin biyolojisi
15	Sivrisinekler ve Kenelerle savaş yöntemleri

Course Learning Outcomes	
No	Learning Outcomes
C01	insan ve çevre sağlığına etki eden parazitler hakkında bilgi sahibi olmak.
C02	Paraziter bir etkenle olacak salgında kaynağın belirlenmesi ve gerek önlemlerin alınması
C03	Ülkemizde görülen önemli parazitler hastalıkları hakkında farkındalık yaratmak

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	28	2	56
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			56
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	2	5	5	5	1	1	4	3	1	4	3	5	1	2	3	3
C01	5	4	5	2	5	5	5	1	1	4	3	1	4	3	5	1	2	3	3
C02	5	4	5	2	5	5	5	1	1	4	3	1	4	3	5	1	2	3	3
C03	5	4	5	2	5	5	5	1	1		3	1	4	3	5	1	2	3	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET202 INTRODUCTION TO SURGERY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET202	INTRODUCTION TO SURGERY	4	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

he objective of this course is to teach the basic principles of surgery, wound healing mechanisms, asepsis-antisepsis rules, and basic soft tissue diseases at theoretical and practical levels.

Teaching Methods and Techniques:

It covers surgical terminology, disinfection, wound types and treatment, clinical evaluation of hernias, fistulas, and cysts.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Barış AKGÜL

Instructors:

Prof.Dr. Nihat ŞINDAKAssociate Prof.Dr. Mustafa Barış AKGÜLAsist Prof.Dr. Onur YILDIRIM Associate Prof.Dr. Ali GÜLAYDINProf.Dr. Mehmet SAĞLAM Asist Prof.Dr. Kadir SULU

Assistants:

Research Assist. Maruf YILMAZ Research Assist. Sevdet KILIÇResearch Assist. Bahar ERDEN

Recommended Sources	
Textbook	: Fossum, T. W. (2018). Small Animal Surgery. Elsevier.
Resources	: Tobias, K. M. (2017). Manual of Small Animal Soft Tissue Surgery. Wiley-Blackwell.
Documents	: Samsar, E., & Akin, F. (2006). Genel Cerrahi. Tamer Yayıncılık.
Assignments	: Fossum, T. W. (2018). Small Animal Surgery. Elsevier. Tobias, K. M. (2017). Manual of Small Animal Soft Tissue Surgery. Wiley-Blackwell. Samsar,
Exams	: Fossum, T. W. (2018). Small Animal Surgery. Elsevier. Tobias, K. M. (2017). Manual of Small Animal Soft Tissue Surgery. Wiley-Blackwell. Samsar,

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to surgery and terminology		
2	Asepsis, antisepsis, and sterilization methods		
3	Introduction and use of surgical instruments		
4	Wound science: Classification and etiology		
5	Wound healing and factors affecting healing		
6	Wound treatment and current dressing techniques		
7	Basic suture materials and suturing techniques		
8	Midterm Exam		
9	Hemorrhage control and hemostasis methods		
10	Burns and frostbite: Classification and treatment		
11	Cysts, fistulas, and sinuses		
12	Hernias: Etiology and general surgical approach		
13	Abscesses, phlegmon, and gangrene		
14	General introduction to tumor surgery and biopsy techniques		
15	Bandaging applications and post-operative care		
16	Final Exam		

Recommended Optional Programme Components	
VET501 SURGICAL	

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines basic surgical concepts and disinfection-sterilization protocols.
C02	Explains the stages of wound healing and the factors affecting healing.
C03	Identifies surgical instruments and performs basic suturing techniques and bandaging.
C04	Plans appropriate first aid interventions by performing differential diagnosis of clinical cases encountered within the scope of external diseases
C05	Establishes professional communication with the animal owner within the framework of surgical ethical rules.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	4	4	4	5	5	4	4	4	4	4	4	4	4	4	4	4
C01	5	4	5	4	3	5	4	5	3	5	4	4	4	4	4	4	4	4	4
C02	5	5	4	5	3	4	5	4	4	4	4	4	4	4	4	4	4	4	4
C03	4	5	5	5	4	5	5	5	5	5	5	5	4	4	4	4	4	4	4
C04	5	5	5	4	5	5	5	4	5	4	4	4	5	5	5	5	5	5	5
C05	3	3	4	3	5	4	4	5	5	3	3	3	4	4	4	4	4	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET242 SWINE BREEDING					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET242	SWINE BREEDING	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

Education of the student in pig production

Teaching Methods and Techniques:

General Specifications, races, shelters, Behavior, Care and Feeding of breeding, reproduction reproductive period of preparation, Baby Care & Nutrition, Extensive Livestock, intensive fattening, slaughter and carcass characteristics, Product Marketing, Healthcare, Regulatory.

Prerequisites:

Course Coordinator:

Instructors:

Associate Prof.Dr. Ali Osman TURGUTAsist Prof.Dr. Mehmet EROĞLU

Assistants:

Recommended Sources	
Textbook	: Poyraz, Ö. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
Resources	: Poyraz, Ö. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 100

Course Content			
Week	Topics	Study Materials	Materials
1	General Specifications	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
2	Breeds	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
3	Shelters	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
4	Care and feeding of breeding	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
5	Reproduction, the preparation of reproductive period	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
6	The offspring care and nutrition	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
7	Extensive fattening	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
8	Midterm		
9	Intensive fattening	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
10	Semi-Intensive fattening	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
11	Slaughter and carcass characteristics	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
12	Product Marketing	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
13	Healthcare	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
14	Regulatory	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara
15	Regulatory	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara	Course of the study subjects planned to Poyraz, O. (2003). Kanatlı ve Domuz Yetiştiriciliği Ders Notları, Ankara

Course Learning Outcomes	
No	Learning Outcomes
C01	Having learned the basic knowledge of pig breeding,
C02	To learn the basic information about pig fattening,
C03	To learn the basic information about pig raising,
C04	Pig Breeding

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	6	6
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	1	1	1	1	1	5	1	1	1	1	1	1	1	5	1	1	1
C01	5	5	1	1	1	1	1	4	1	1	1	1	1	1	1	4	1	1	1
C02	5	5	1	1	1	1	1	4	1	1	1	1	1	1	1	5	1	1	1
C03	5	4	1	1	1	1	1	3	1	1	1	1	1	1	1	4	1	1	1
C04	5	4	1	1	1	1	1	4	1	1	1	1	1	1	1	5	1	1	1

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VET260 METHODS OF DRUG APPLICATION IN EXOTIC ANIMALS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET260	METHODS OF DRUG APPLICATION IN EXOTIC ANIMALS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach the administration of drugs used in exotic animal species (birds, reptiles, amphibians, rodents, fish, and other small mammals), the effects of physiological differences between species on treatment, and practical application techniques. The goal is to equip students with the knowledge and skills to perform safe, effective, and ethical drug applications in exotic animals.

Teaching Methods and Techniques:

• Introduction and General Principles – Importance of Drug Administration in Exotic Animals, Key Challenges • Pharmacokinetic and Pharmacodynamic Properties – Importance of Species Differences • Routes of Drug Administration in Birds I – Oral, Addition to Water, and Administration with Food • Routes of Drug Administration in Birds II – Parenteral Administration (i.m., s.c., i.v., intraosseous) • Routes of Drug Administration in Reptiles I – Oral and Rectal Administration • Routes of Drug Administration in Reptiles II – Parenteral Administration (i.m., s.c., i.v., intracardiac) • Drug Administration in Amphibians – Skin Absorption, Bathing, and Oral Administration • Routes of Drug Administration in Fish – Addition to Water, Bathing, Feeding, and Injection • Routes of Drug Administration in Rodents – Oral Gavage, Parenteral Administration • Routes of Drug Administration in Rabbits and Other Small Mammals • Special Situations in Exotic Mammals – Hedgehogs, Bats etc. • Problems Encountered During Implementation – Stress, trauma, medication side effects • Clinical Case Studies – Examples of appropriate path selection by type • General Assessment and Practical Applications – Classroom/clinical application

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources	
Textbook	:
Resources	: Girling SJ, Raiti P. BSAVA Manual of Exotic Pets, Quesenberry KE, Carpenter JW. Ferrets, Rabbits, and Rodents: Clinical Medicine and Surgery, Veteri
Documents	:
Assignments	:
Exams	:

Course Category	
Mathematics and Basic Sciences	:
Engineering	:
Engineering Design	:
Social Sciences	:
Education	:
Science	:
Health	: 100
Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction and General Principles – Importance of Drug Administration in Exotic Animals, Key Challenges		
2	Pharmacokinetic and Pharmacodynamic Properties – Importance of Species Differences		
3	Drug Administration Routes in Birds I – Oral, Addition to Water, and Administration with Food		
4	Drug Administration Routes in Birds II – Parenteral Administration (i.m., s.c., i.v., intraosseous)		
5	Drug Administration Routes in Reptiles I – Oral and Rectal Administration		
6	Drug Administration Routes in Reptiles II – Parenteral Administration (i.m., s.c., i.v., intracardiac)		
7	Drug Administration in Amphibians – Skin Absorption, Bathing, and Oral Administration		
8	Drug Administration Routes in Fish – Addition to Water, Bathing, Feeding, and Injection		
9	Drug Administration Routes in Rodents – Oral Gavage, Parenteral Administration		
10	Drug Administration Routes in Rabbits and Other Small Mammals		
11	Special Features in Exotic Mammals Situations – Hedgehog, bat, etc.		
12	Problems Encountered During Implementation – Stress, trauma, medication side effects		
13	Clinical Case Studies – Examples of appropriate method selection by species		
14	General Assessment and Practical Applications – Classroom/clinical application		

Course Learning Outcomes

No	Learning Outcomes
C01	1. Classify and explain drug administration routes in exotic animals. 2. Understand pharmacokinetic differences in birds, reptiles, amphibians, fish, rodents, and small mammals. 3. Select the appropriate

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	0	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	9	1	9
Assignment	0	%0	Assignments	0	0	0
Attendance	0	%0	Presentation	4	2	8
Practice	0	%0	Mid-terms	1	6	6
Project	0	%0	Practice	0	0	0
Final examination	0	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	9	9
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	5	5	4	5	5	4	4	4	4	4	4	5	5	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET258 EPOXIDE AND ITS IMPORTANCE					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET258	EPOXIDE AND ITS IMPORTANCE	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach the structure, synthesis methods, reaction mechanisms, and importance of epoxides in biological systems. Furthermore, by discussing the roles epoxides play in industry (polymers, pharmaceuticals, agricultural chemicals, dyes, etc.) and in living organisms (biotransformation, toxicity, DNA binding), students are expected to understand the chemical and biological effects of epoxides.

Teaching Methods and Techniques:

Introduction to Epoxides – Definition, history, importance Structural Properties of Epoxides – Three-membered ring properties, strain energy Epoxide Synthesis Methods I – Epoxidation from alkenes (peracids, catalytic methods) Epoxide Synthesis Methods II – Halohydrin methods, other specialized synthesis methods Reactions of Epoxides I – Acid- and base-catalyzed ring-opening reactions Reactions of Epoxides II – Reactions with nucleophiles, stereoselectivity Use of Epoxides in Polymers – Epoxy resins, structural materials, industrial applications Use of Epoxides in Pharmaceuticals and Agrochemicals – Epoxide derivatives, pharmaceutical importance Epoxides in Biological Systems I – Liver microsomal enzymes and epoxidation Epoxides in Biological Systems II – Covalent bonding with DNA and proteins Toxicological Importance of Epoxides – Carcinogenic and mutagenic effects, case studies Veterinary Epoxides in Medicine – Mycotoxins (e.g., aflatoxin B1 epoxide), effects on animal health Environmental Importance of Epoxides – Pesticides, industrial wastes, and ecotoxicology General Review and Case Studies – Theory + application examples

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources	
Textbook	: Organik Kimya – Fessenden & Fessenden
Resources	: Veteriner Toksikoloji – Sezai Kaya
Documents	: Biyokimya – Baynes & Dominiczak
Assignments	: Organic Chemistry – Jonathan Clayden, Nick Greeves, Stuart Warren
Exams	: March's Advanced Organic Chemistry – Michael B. Smith Epoxides: Synthesis and Reactions – S. Warren

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to Epoxides – Definition, history, importance		
2	Structural Properties of Epoxides – Three-membered ring properties, strain energy		
3	Epoksit Sentez Yöntemleri I – Alkenlerden epoksidasyon (perasitler, katalitik yöntemler)		
4	Epoxide Synthesis Methods II – Halohydrin methods, other specialized synthesis methods		
5	Epoxide Reactions I – Acid- and base-catalyzed ring-opening reactions		
6	Epoxide Reactions II – Reactions with nucleophiles, stereoselectivity		
7	Use of Epoxides in Polymers – Epoxy resins, structural materials, industrial applications		
8	Use of Epoxides in Pharmaceuticals and Agricultural Chemicals – Epoxide derivatives, pharmaceutical importance		
9	Epoxides in Biological Systems I – Liver microsomal enzymes and epoxidation		
10	Epoxides in Biological Systems II – Covalent bonding with DNA and proteins		
11	Toxicological Importance of Epoxides – Carcinogenic and Mutagenic Effects, Case Studies		
12	Epoxides in Veterinary Medicine – Mycotoxins (e.g., aflatoxin B1 epoxide) and their effects on animal health		
13	Environmental Importance of Epoxides – Pesticides, Industrial Wastes, and Ecotoxicology		
14	General Evaluation and Case Studies – Theoretical + application examples		

Recommended Optional Programme Components	
VET309 PHARMACOLOGY-I	
VET415 TOXICOLOGY AND ENVIRONMENTAL PROTECTION	

Course Learning Outcomes	
No	Learning Outcomes
C01	• Explains the structural properties of epoxides and the chemical reactivity of three-membered rings. • Describes epoxide synthesis methods (epoxidation from alkenes, halohydrin r

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	2	1	2
Presentation	0	0	0
Mid-terms	1	6	6
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			60
ECTS Credit of the Course			2

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET268 Pathophysiology					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET268	Pathophysiology	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to explain the pathophysiological processes and mechanisms of cases encountered in veterinary practice, to teach host-pathogen and drug-drug / drug-organism interactions, to understand cause-effect relationships of diseases, and to enhance awareness of preventive veterinary medicine.

Teaching Methods and Techniques:

The content of this course includes the examination of pathological changes occurring in pathophysiological processes of diseases (acute, subclinical, clinical, and chronic), from cellular signaling pathways to systemic levels. It also covers host-pathogen relationships, drug-drug and drug-organism interactions, homeostasis mechanisms, and evaluation of examination and testing protocols for early diagnosis and preventive treatment in preventive veterinary medicine.

Prerequisites:

Course Coordinator:

Prof.Dr. HURREM TURAN AKKOYUN

Instructors:

Prof.Dr. HURREM TURAN AKKOYUN

Assistants:

Recommended Sources

Textbook	:	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
Resources	:	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	:
			100

Course Content

Week	Topics	Study Materials	Materials
1	Homeostasis, fluid-electrolyte balance, and pathophysiological mechanisms are covered.	Basic physiology and homeostasis concepts	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
2	Cellular regulation mechanisms, cell survival and death pathways, and cancer are covered.	Cell biology and molecular mechanisms	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
3	Pathophysiology of the hematopoietic system (anemia, hemoglobinopathies, polycythemia) is covered.	Basic hematology and blood physiology	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
4	Pathophysiology of the hematopoietic system is discussed in detail.	General knowledge of hematological disorders	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
5	Pathophysiology of the cardiovascular system is covered.	Cardiovascular physiology should be reviewed	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
6	Pathophysiology of the nervous system (neuronal degeneration, hypoxia) is covered.	Neurophysiology and basic neurobiology	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
7	Pathophysiology of the nervous system (neurogenetic diseases, epilepsy) is covered.	Basic knowledge of neurological diseases	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
8	Midterm examination is conducted.		
9	Pathophysiology of the gastrointestinal system in ruminants is covered.	Ruminant digestive physiology should be reviewed	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
10	Tek midillerde gastrointestinal sistem fizyopatolojisi ele alınmaktadır.	Monogastric digestive physiology should be reviewed	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
11	Pathophysiology of the respiratory system is covered.	Respiratory physiology should be reviewed	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
12	Pathophysiology of the reproductive and endocrine systems is covered.	Endocrine and reproductive physiology	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
13	Davranis bozuklukları, stres ve refah ele alınmaktadır.	Animal behavior and stress physiology	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
14	Host-pathogen interactions are covered.	Immunology and infection mechanisms	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
15	Pathophysiology of pain and inflammation is covered.	Basic knowledge of inflammation and immunology	Dunlop, R. H., & Malbert, C. H. (Eds.). (2004). Veterinary pathophysiology. Blackwell Publishing.
16	Yarıyıl sonu sınavı uygulanmaktadır.		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the fundamental pathophysiological and molecular mechanisms involved in the development of diseases.
C02	Explains the effects of host-pathogen, drug-drug, and drug-organism interactions on disease processes.
C03	Interprets clinical findings by relating them to underlying pathophysiological mechanisms.
C04	Analyzes the pathophysiological processes of metabolic diseases and evaluates their possible clinical consequences.
C05	Evaluates the relationships among disease development, progression, and treatment processes from a holistic perspective and contributes to clinical decision-making.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	16	16
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	16	16
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2
C01	4	3	4	3	2	3	3	2	2	2	2	2	3	2	2	2	2	2	3
C02	4	3	4	3	2	3	3	2	2	2	2	2	3	2	2	2	2	2	3
C03	4	3	4	3	2	3	3	2	3	2	2	2	4	2	2	2	2	3	3
C04	3	4	3	3	2	3	3	2	3	2	2	2	3	2	2	2	2	2	3
C05	4	3	4	4	3	4	4	3	3	3	3	3	4	3	3	2	2	3	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET250 GENERAL SURGERY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET250	GENERAL SURGERY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with knowledge, skills, and clinical competence regarding asepsis-antisepsis, wound healing, surgical infections, surgical interventions, suture materials, and basic operative techniques in line with the fundamental principles of veterinary surgery.

Teaching Methods and Techniques:

This course content includes fundamental concepts of veterinary surgery, asepsis and antisepsis practices, sterilization and disinfection methods, wound healing, surgical infections, suture materials and techniques, biopsy methods, bandaging applications, and basic surgical procedures. In addition, it aims to provide students with theoretical knowledge and practical skills in fundamental surgical applications.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Barış AKGÜL

Instructors:

Associate Prof.Dr. Mustafa Barış AKGÜL Asist Prof.Dr. Kadir SULUAsist Prof.Dr. Onur YILDIRIMProf.Dr. Nihat ŞINDAKProf.Dr. Mehmet SAĞLAM Associate Prof.Dr. Ali GÜLAYDIN

Assistants:

Research Assist. Maruf YILMAZ Research Assist. Bahar ERDENResearch Assist. Sevdet KILIÇ

Recommended Sources

Textbook	: Fossum, T. W. (2019). Small animal surgery (5th ed.). Elsevier.
Resources	: Tobias, K. M., & Johnston, S. A. (2012). Veterinary surgery: Small animal (2nd ed.). Elsevier.
Documents	: Monnet, E. (Ed.). (2013). Small animal soft tissue surgery. Wiley-Blackwell.
Assignments	: Slatter, D. (Ed.). (2003). Textbook of small animal surgery (3rd ed.). Saunders.
Exams	: Samsar, E., & Akin, F. (2000). General surgery. Medipres.
	Yanik, K. General Surgerv Lecture Notes (CD). Bursa. 2006.Göraül. O. S. Suraerv Lecture Notes. Bursa. 2000. Göraül. O. S.. Sevrek-İntas. D. Intro

Course Category

Mathmatics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction to veterinary surgery and basic surgical terminology		
2	Principles of asepsis, antisepsis, sterilization, and disinfection		
3	Surgical instruments and principles of their use		
4	Wound classification and wound healing		
5	Bandaging applications and wound care methods		
6	Suture materials and suturing techniques		
7	Biopsy methods and basic surgical interventions		
8	MIDTERM EXAM		
9	Surgical infections and infection control		
10	Hemostasis methods and drain applications		
11	Preoperative patient preparation and surgical planning		
12	Postoperative care and complication management		
13	Diseases of the nervous tissue (Neuritis, Paralysis). Diseases of the joints (Arthritis)		
14	Surgical diseases of bone tissue (Fractures, Dislocations, Ostitis)		
15	Inflammation, wound healing, traumatic disorders, and surgical diseases of the skin, subcutaneous tissues, and mucous bu		
16	END OF SEMESTER EXAM		

Recommended Optional Programme Components

VET250 GENERAL SURGERY

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the basic terminology, asepsis-antisepsis principles, and sterilization methods used in veterinary surgery.
C02	Applies classification and appropriate usage methods of surgical instruments and suture materials according to their intended purposes.
C03	Plans appropriate wound care methods by evaluating wound healing processes.
C04	Performs bandaging applications, biopsy methods, and basic surgical interventions using appropriate techniques.
C05	Applies infection control methods by analyzing the mechanisms of surgical infections.
C06	Organizes preoperative and postoperative patient care processes and interprets possible complications.
C07	Acts in accordance with ethical rules, patient safety, and professional responsibilities in veterinary surgical practices.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	5	3	4	4	4	3	3	5	5	5	3	3	2	4	5	4
C01	4	5	4	4	3	4	3	3	3	2	4	3	3	2	2	2	3	3	3
C02	3	3	5	5	3	4	4	4	4	3	4	5	5	3	3	2	4	4	4
C03	3	3	5	4	3	4	5	4	5	3	4	4	5	3	3	2	4	5	5
C04	3	4	5	4	3	4	5	4	4	3	5	4	5	4	4	2	4	5	4
C05	3	3	5	4	3	4	4	5	5	4	5	4	5	3	3	2	4	4	5
C06	3	3	5	5	3	4	4	4	4	3	4	5	5	3	3	2	4	5	4
C07	4	4	4	3	3	3	3	4	3	4	5	3	4	3	4	2	3	3	3

FACULTY OF VETERINARY MEDICINE
Veterinary Medicine

Language of Instruction: Turkish Course Level: Faculty Work Placement(s): No Department / Program: Veterinary Medicine Course Type: Zorunlu Goals: Principles of heredity, structure and function of DNA, and the application of recombinant DNA technology and to analyze inheritance mechanisms in domestic animals at molecular, cytogenetic, and population levels; and to establish a scientific basis for breeding and disease diagnosis processes by evaluating the phenotypic effects of genetic variation.

There is no prerequisite for the course. Introduction to Genetics, Mendelian genetics, Chromosomes, DNA, Structure and functions of genes, Gene expression, Mutations, Chromosomal mutations, Molecular Genetic, Recombinant DNA technology, Population Genetics, Quantitative Genetic, Epigenetics, Molecular organization of genetic material, principles of Mendelian genetics and deviations, sex-linked inheritance, cytogenetic anomalies, Hardy-Weinberg equilibrium in population genetics, inheritance of quantitative traits, and biotechnological applications in veterinary medicine.

Research Assist. Burcu Tokaöz

Course Category	
Mathematics and Basic Sciences : 0	Education : 0
Engineering : 0	Science : 0
Engineering Design : 0	Health : 100
Social Sciences : 0	Field : 0

Course Learning Outcomes	
No	Learning Outcomes
C01	become familiar with Genetic science
C02	The basic principles of heredity is given
C03	Molecular biology is learned at a basic level
C04	Information about recombinant DNA technology is provided
C05	Acquires the competence to integrate developments in genetic science into clinical applications by following the current literature.
C06	Comprehends the principles of population genetics and genetic parameters used in animal breeding.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Right against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	6	6
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	4	4	3	3	3	5	3	4	4	3	4	4	4	5	4	4	4
C01	5	5	3	4	2	2	2	4	3	5	4	2	3	3	3	4	3	3	4
C02	5	4	4	3	3	3	3	5	4	4	4	2	3	3	3	5	4	3	4
C03	5	5	4	5	3	3	3	4	3	4	4	3	3	3	3	4	5	4	5
C04	5	5	4	5	4	4	4	4	3	4	4	3	4	4	4	5	5	4	5
C05	5	5	5	4	4	4	4	4	4	5	5	4	5	5	5	4	4	4	4
C06	5	4	4	4	4	3	3	5	5	4	4	3	4	4	4	5	4	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET232 ANIMAL RIGHTS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET232	ANIMAL RIGHTS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

In this course; it is aimed for students to comprehend the concepts of animal rights, animal welfare, and bioethics in philosophical, legal, and ethical dimensions, to learn national and international legislation, and to gain the vision to advocate for animal rights and welfare in their professional practices.

Teaching Methods and Techniques:

The course covers the historical and philosophical development of animal rights, the five freedoms of animal welfare, legal regulations regarding laboratory, farm, and companion animals, and the legal analysis of current violation cases.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Prof.Dr. Tekin ŞAHİN

Assistants:

Research Assist. mahsum Başak

Recommended Sources					
Textbook	:	Morris, D. (1991). Contracted of Animal – Human			
Resources	:	Morris, D. (1991). Contracted of Animal – Human ,	Regan, T. (1983). Animal Rights,	Singer, P. (1989). Animal Rights and Human Obligations,	Si
Documents	:				
Assignments	:				
Exams	:	ARA SINAV VE YARIYIL SINAVI			

Course Category					
Mathematics and Basic Sciences	:		Education	:	
Engineering	:		Science	:	
Engineering Design	:		Health	:	100
Social Sciences	:	0	Field	:	0

Course Content			
Week	Topics	Study Materials	Materials
1	Relationship between human and animal in historical process and the concept of animal rights		
2	Historical development of the animal rights movement		
3	Animal ethics		
4	Animal rights according to the usages		
5	The animal protection organizations		
6	Universal declaration of animal rights and the importance		
7	The views of animal rights supporter		
8	Midterm		
9	The views of animal rights against		
10	Use of animals in research		
11	The animal protection act and the content		
12	Value in terms of veterinary medicine of animal rights		
13	To be discussed on animal welfare in the framework of animal rights		
14	The animal protection act and the evaluation of cases which are dispatch to the law courts		
15	ethical aspects of assessment on the animal protection act		
16	FINAL EXAM		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the philosophical and practical differences between the concepts of animal rights and animal welfare.
C02	Evaluates the "Five Freedoms" principle determined by the Animal Welfare Council in clinical and field conditions.
C03	Analyzes national (Law No. 5199, etc.) and international (Universal Declaration of Animal Rights) legislation.
C04	Applies legal notification and reporting procedures in cases suspected of animal welfare violation or abuse.
C05	Audits experimental protocols in accordance with the "3R Principles" (Replacement, Reduction, Refinement) in the use of laboratory animals.
C06	Judges compliance with welfare criteria in facilities such as farms, shelters, and slaughterhouses within the framework of ethical principles.
C07	Takes professional leadership in animal rights advocacy and public information processes at the social level.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			58
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	1	1	1	2	1	1	1	5	4	2	1	1	4	2	1	1	1
C01	2	3	2	2	2	3	2	3	2	3	2	3	3	3	3	3	3	3	2
C02	2	2	2	3	2	3	2	5	4	1	2	3	2	1	2	3	2	2	4
C03	4	4	1	2	2	3	2	2	2	5	4	4	1	1	1	2	3	2	2
C04	2	2	5	4	4	4	2	2	2	3	3	3	3	3	2	2	5	4	1
C05	2	2	3	2	2	2	5	4	1	1	2	3	3	3	2	5	4	1	2
C06	3	2	5	4	1	2	2	2	3	2	2	5	4	4	4	4	5	2	3
C07	3	2	3	3	3	2	2	2	2	4	3	1	2	2	3	3	2	2	2

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET216 HELMINTHOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET216	HELMINTHOLOGY	4	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of the course is to provide students with basic knowledge of the morphology, biology, epidemiology, and infections caused by trematodes, cestodes, and nematodes found in domestic animals.

Teaching Methods and Techniques:

This course covers the taxonomic classification of helminths, the morphological structures, developmental patterns, hosts, and veterinary importance of trematodes, cestodes, and nematodes.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. BURÇAK ASLAN

Instructors:

Asist Prof.Dr. Muhammed Ahmed SELÇUK

Assistants:

Recommended Sources	
Textbook	: Veteriner Helmintoloji (Recep Tinar, Ed., Dora Publishing, Bursa, 2011)
Resources	: Helmintoloji (Ahmet Doğanay, Ed., Ankara Nobel Medical Bookstores, Ankara, 2021)
Documents	: Helmintoloji Pratiği (Ahmet Doğanay, Ed., Ankara Nobel Medical Bookstores, Ankara, 2019)
Assignments	: Veterinary Helminthology (T. Kassai, 1999)
Exams	: Veterinary Helminthology (K. S. Singh, 2003) Veterinary Parasitology (M. A. Taylor, R. L. Coop, R. Wall, John Wiley & Sons, 2015)

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	General characteristics of helminths; classification, morphology, biology, life cycles and importance in veterinary medicine.		
2	General characteristics of trematodes; morphology, biology, life cycles, intermediate hosts and transmission routes.		
3	Dicrocoelidae and Fasciolidae; important species, life cycles, hosts, diseases caused, diagnosis and prevention methods.		
4	Lepodermatidae, Trophlostomatidae, Brachylaemidae, Heterophyidae and Opisthorchiidae; important species, hosts, predilection sites, diseases caused, diagnosis and prevention methods.		
5	Paramphistomidae and Schistosomatidae; important species, life cycles, intermediate hosts, pathogenicity, diagnosis and prevention methods.		
6	General characteristics of cestodes, Diphylobothriidae; morphology, scolex structure, segmentation, life cycle and importance in veterinary medicine.		
7	Anoplocephalidae, Avitellinidae, Davaineidae, Hymenolepididae and Dilepididae; important species, hosts, life cycles, diseases caused, diagnosis and prevention methods.		
8	Midterm exam		
9	Taeniidae and Mesocystoididae; important species, adult and larval forms, host relationships, zoonotic importance, diagnosis and prevention methods.		
10	General characteristics of nematodes, Strongyloidea; morphology, biology, life cycle, transmission routes and infections caused in animals.		
11	Strongylidae, Ancylostomidae and Syngamidae; important species, hosts, predilection sites, diseases caused, diagnosis and prevention methods.		
12	Metastrongylidae, Protostrongylidae and Filaroididae; respiratory system nematodes, important species, life cycles, clinical signs and diagnosis.		
13	Trichostrongylidae and Dictyocaulidae; important species, epidemiology, gastrointestinal and respiratory system effects, diagnosis and prevention methods.		
14	Ascaridae, Toxocaridae, Ascaridiidae, Anisakidae, Oxyuridae, Heterakidae and Spiruridae; important species, hosts, development, diagnosis and prevention methods.		
15	Thelazidae, Filariidae, Setariidae, Onchocercidae, Trichuridae and Trichinelidae; important species, tissue and organ predilection sites, diagnosis and prevention methods.		
16	Final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Define the basic concepts and terminology of veterinary helminthology.
C02	Explain the general morphological characteristics of trematodes, cestodes, and nematodes.
C03	Explain the life cycles and host relationships of helminths.
C04	Compare important helminth groups in veterinary medicine.
C05	Apply basic diagnostic methods used in helminth infections.
C06	Explain prevention and control approaches for helminth infections.
C07	Apply knowledge of helminthology using scientific terminology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development.
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	14	2	28
Project	0	0	0
Final examination	1	10	10
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	4	3	4	4	3	4	5	3	3	4	4	4	3	3	4	5
C01	5	4	4	3	3	3	4	3	3	5	3	3	3	3	3	3	3	4	4
C02	5	4	5	4	3	4	4	3	4	5	3	3	4	4	4	4	3	4	5
C03	5	4	5	4	3	5	4	3	4	5	3	3	4	4	4	3	3	5	5
C04	5	4	5	4	3	4	4	3	5	5	3	4	4	4	4	3	3	4	5
C05	5	4	5	4	4	5	5	3	4	5	3	3	5	5	5	3	3	4	5
C06	5	4	5	4	4	5	5	3	4	5	3	3	5	5	5	4	3	5	4
C07	4	5	4	3	3	3	4	3	3	5	4	3	3	3	4	3	3	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET270 TURKEY, GOOSE AND DUCK NUTRITION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET270	TURKEY, GOOSE AND DUCK NUTRITION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to analyze the nutrient and energy requirements of turkeys, geese, and ducks at different physiological stages, to develop the ability to formulate appropriate rations, and to optimize feeding management in terms of productivity, health, and welfare. In addition, the course aims to evaluate nutritional factors affecting growth, egg production, and carcass quality in these species, and to provide knowledge and competence in preventing nutrition-related diseases, efficient use of feed ingredients, and the incorporation of alternative feed resources into rations.

Teaching Methods and Techniques:

Course content includes the nutrient requirements, feedstuffs, ration formulation, and feeding management of turkeys, geese, and ducks.

Prerequisites:

Course Coordinator:

Prof.Dr. Tuncay TUFAN

Instructors:

Prof.Dr. Tuncay TUFAN

Assistants:

Recommended Sources

Textbook	:	Baéza, E. (2016). Nutritional requirements and feed management of meat type ducks. World's Poultry Science Journal, 72(1), 5-20.
Resources	:	Mandal, A. B. (2022). Feeding and nutrient requirements of ducks. In Duck Production and Management Strategies (pp. 303-337). Singapore: Sprin
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction to the course and importance of waterfowl		
2	Digestive systems of turkeys, geese, and ducks		
3	Nutrient requirements: water and dry matter		
4	Energy requirements		
5	Protein and amino acid requirements		
6	Vitamin and mineral requirements		
7	Feed ingredients: roughages		
8	Midterm exam		
9	Feed additives		
10	Principles of ration formulation		
11	Feeding according to growth stages in turkeys, geese, and ducks		
12	Feeding during egg production period		
13	Relationship between feeding management and performance		
14	Nutrition-related diseases		
15	Alternative feed resources and sustainable nutrition		
16	Final exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Analyzes the nutrient and energy requirements of turkeys, geese, and ducks.
C02	Formulates rations appropriate for different physiological stages.
C03	Evaluates feed ingredients used in these species and their characteristics.
C04	Explains the effects of feeding management on productivity, health, and welfare.
C05	Identifies nutrition-related diseases and develops prevention strategies.
C06	Integrates alternative feed resources into rations appropriately.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			48
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	4	3	3	4	4	3	4	3	4	4	3	4	4	4	3	4	4
C01	3	4	5	3	2	5	4	2	5	4	3	2	4	5	5	4	2	5	2
C02	4	3	5	3	3	1	4	3	4	1	3	4	3	3	4	2	3	4	3
C03	3	4	3	3	3	2	4	4		3	5	4	4	3	2	4	4	3	1
C04	4	3	3	2	1	3	2	3	5	1	3	5	5	2	3	4	3	3	2
C05	4	4	3	5	3	3	3	3	5	3	4	4	5	2	3	4	3	3	4
C06	4	3	3	2	3	4	3	5	3	3	3	5	3	3	3	4	3	3	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET254 HOMEOPATHY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET254	HOMEOPATHY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seğmeli

Goals:

• Introduce the historical development, basic principles, and areas of application of homeopathy. • Develop the ability to distinguish homeopathy from other complementary/alternative medical methods (phytotherapy, acupuncture, naturopathy, etc.). • Critically evaluate the scientific basis and efficacy and safety discussions of homeopathic treatments. • Provide information about legal regulations, pharmacology, production, and regulatory processes related to homeopathy. • Develop communication skills so that healthcare professionals can understand patients' requests for homeopathy and provide appropriate guidance. • Discuss the ethical, social, and cultural dimensions of homeopathy practices. • Develop the ability to follow current scientific literature on homeopathy and conduct critical analysis.

Teaching Methods and Techniques:

1. Introduction and History Definition of Homeopathy Samuel Hahnemann and the Birth of Homeopathy Historical Development: From the 18th Century to the Present Place in Modern Medicine and Criticisms 2. Basic Homeopathic Principles Similia similibus curentur (Like cures like) Minimum dose principle Individualized treatment approach The concept of vital force 3. Homeopathic Medicines Origins of Medicines: Plant, Animal, Mineral Preparation Process: Potentiation (Dilution and Shaking) Low and High Potency (30°C, 200°C, etc.) Homeopathic Pharmacopoeias (e.g., HPUS, EH) 4. Repertorization and Materia Medica Definition and Use of Repertory Most Commonly Used Homeopathic Medicines and Their Properties Symptom Analysis and Drug Matching Use of Materia Medica 5. Diagnosis and Patient Assessment Homeopathic history taking (physical, mental, emotional symptoms) Case analysis and creation of an individual treatment plan Follow-up and recovery symptoms 6. Application Areas Homeopathy in acute illnesses Management of chronic illnesses Homeopathy in psychosomatic illnesses Use in pediatrics, dermatology, allergy, gynecology, etc. 7. Clinical Case Studies Analysis with real or sample cases Repertorization applications Practice of the drug selection process 8. Effectiveness, Criticism, and Scientific Discussions Scientific studies on the effectiveness of homeopathy Criticism and the placebo effect debate Evaluation from an EBM (Evidence-Based Medicine) perspective Ethical and legal aspects of homeopathy 9. Homeopathy in Turkey and the World Legal status of homeopathy in Türkiye Examples of practice in Europe, India, and the United States Educational institutions and certification systems 10. Practical Training/ Workshop Preparing medicines in a laboratory setting Workshop on using repertory systems Case analysis exercises

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Assistants:

Recommended Sources

Textbook	:	
Resources	:	The Science of Homeopathy – George Vithoulkas, Organon of Medicine – Samuel Hahnemann, Lectures on Homeopathic Philosophy – James Tyler K
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction and History of Homeopathy Samuel Hahnemann and the Birth of Homeopathy Classical and Modern Approaches		
2	Fundamental Principles of Homeopathy I The principle of "Similia similibus curentur" (like cures like) Minimum dose and indi		
3	Fundamental Principles of Homeopathy II The Homeopathic Healing Process Hering's Laws of Healing Response to Treatmen		
4	1.741 / 5.000 Preparation of Homeopathic Medicines Dilution and succussion procedures Potency: C, X, LM, etc. Standards in		
5	Introduction to Materia Medica What is Materia Medica? How is it used? Most commonly used drugs: Aconite, Belladonna, Ar		
6	Using Repertory What is Repertory? Finding appropriate medication based on key symptoms Repertorization applications (usi		
7	History Taking and Case Analysis I How to take a homeopathic history? Assessment of mental, physical, and emotional sym		
8	Anamnesis and Case Analysis II Individualized symptom analysis Modalities (factors affecting symptoms) Deep case analysis		
9	Homeopathy in Acute and Chronic Illnesses Approach to acute illnesses (cold, fever, etc.) Definition of chronic illness and m		
10	Clinical Application Areas I Homeopathy in Pediatric Diseases Dermatological Cases Digestive System Problems		
11	Clinical Application Areas II Gynecological Diseases Psychological/Psychosomatic Conditions Allergic Reactions		
12	Scientific Aspects of Homeopathy and Criticisms Placebo Effect Discussion Homeopathy in Clinical Trials Status in Evidence-B		
13	Homeopathy in Turkey and the World – Ethical and Legal Status Legal Regulations in Türkiye Practices in Europe, India, and		
14	General Assessment and Student Presentations/Case Sharing Student case presentations Repertory and Materia Medica prac		

Recommended Optional Programme Components

VET309 PHARMACOLOGY-I

VET304 PHARMACOLOGY-II

Course Learning Outcomes

No	Learning Outcomes
C01	1. Explain the basic principles of homeopathy. Understand and explain the principles of "like cures like," minimum dosage, and individualization. 2. Evaluate the historical development and philosop

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life

P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment	Quantity	Percentage
In-Term Studies		
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET256 METHODS OF DRUG ADMINISTRATION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET256	METHODS OF DRUG ADMINISTRATION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim is to provide students with an understanding of the ways drugs are administered into the body, the advantages and disadvantages of each route, their clinical applications, and patient safety considerations. The goal is to equip students with the ability to evaluate drug administration routes from pharmacokinetic, pharmacodynamic, and clinical perspectives, to select the appropriate administration method for different patient groups, and to develop an awareness of drug safety.

Teaching Methods and Techniques:

Introduction to drug administration routes (enteral, parenteral, local, other) Enteral routes: oral, sublingual, rectal Parenteral routes: intramuscular, subcutaneous, intravenous, intradermal, intrathecal, intraarticular, etc. Local applications: skin (topical, transdermal), eye, ear, nose Respiratory routes: inhalation, nebulizer Vaginal and rectal local applications Special methods: implants, infusion pumps, nanotechnology delivery systems Pharmacokinetic and pharmacodynamic properties of administration routes Advantages and disadvantages of administration routes

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources

Textbook	: Rang HP, Ritter JM, Flower RJ, Henderson G. Rang & Dale's Pharmacology. Elsevier.
Resources	:
Documents	: Goodman & Gilman's The Pharmacological Basis of Therapeutics. McGraw Hill.
Assignments	:
Exams	: Katzung BG. Basic and Clinical Pharmacology. McGraw Hill.

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction and Importance of the Course	Overview of Drug Administration Routes (Enteral, Parenteral, Local, Other)	
2	Enteral Administration Routes I: Oral	Absorption, Bioavailability, Advantages/Disadvantages	
3	Enteral Administration Routes II: Sublingual and Rectal	Clinical Applications and Limitations	
4	Parenteral Administration Routes I: Intramuscular Administration	Technique, Absorption Properties, Advantages/Disadvantages	
5	Parenteral Administration Routes II: Subcutaneous Administration	Insulin and Vaccine Examples, Complications	
6	Parenteral Administration Routes III: Intravenous Administration	Rapid Effects, Risks, Complications of Intravenous Administration	
7	Other parenteral routes: Intradermal, intrathecal, intraarticular, intraperitoneal	Special clinical applications	
8	Midterm Exam		
9	Local Administration Routes I: Skin (topical, transdermal)	Ointment, cream, and patch applications	
10	Local Administration Routes II: Eye, nose, and ear drops	Clinical use examples	
11	Local Administration Routes III: Respiratory (inhalation, nebulizers)	Asthma and COPD treatment examples	
12	Local Administration Routes IV: Vaginal and rectal applications	Advantages, disadvantages, and safety	
13	Special Administration Routes: Implants, pump systems, nanotechnology carriers	Future perspectives	
14	General review and case discussions	Patient safety and ethical aspects of drug administration routes	

Recommended Optional Programme Components

VET309 PHARMACOLOGY-I

Course Learning Outcomes

No Learning Outcomes

C01 • İlaç uygulama yollarını sınıflandırarak her bir yolun avantajlarını ve dezavantajlarını açıklayabilir. • Enteral, parenteral ve lokal uygulama yöntemlerinin farmakokinetik ve farmakodinamik özellikleri

Program Learning Outcomes

No Learning Outcome

P04 Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17 Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13 In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09 Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03 The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02 Contains up to date information in the field of textbooks, magazines and follow the web site
P01 Understand the relationships between concepts and concepts related to the field
P16 Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18 The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15 Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12 All surgical interventions in the field of scientific methods and meticulous
P11 Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08 In animal breeding and feeding areas will have theoretical and practical knowledge
P07 Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06 Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05 Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10 Understand the national and international legislation about the area
P14 Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19 Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	0	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	14	1	14
Assignment	0	%0	Assignments	0	0	0
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	1	8	8
Project	0	%0	Practice	0	0	0
Final examination	0	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	10	10
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	5	4	4	5	5	5	5	4	5	4	5	4	5	4	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET234 CLINICAL ANATOMY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET234	CLINICAL ANATOMY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seğmeli

Goals:

The aim of this course is to teach anatomical structures related to clinical applications in veterinary medicine and to enable students to gain the ability to use anatomical knowledge in diagnosis, surgical procedures, imaging, and clinical evaluation processes.

Teaching Methods and Techniques:

This course covers clinically important anatomical structures, topographic anatomy, surface anatomy, surgical approaches, palpation points, and imaging anatomy. In addition, the use of anatomical knowledge in clinical diagnosis and treatment applications is examined.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Fatma İŞBİLİR

Instructors:

Associate Prof.Dr. Fatma İŞBİLİR Associate Prof.Dr. Barış Can GÜZEL

Assistants:

Research Assist. Muhammed Zahid ATLI

Recommended Sources	
Textbook	: Dyce, K. M., Sack, W. O., & Wensing, C. J. G. (2017). Textbook of Veterinary Anatomy (5th ed.). Elsevier.
Resources	: Evans, H. E., & de Lahunta, A. (2013). Miller's Anatomy of the Dog (4th ed.). Elsevier.
Documents	: König, H. E., Liebich, H. G., & Maierl, J. (2020). Veterinary Anatomy of Domestic Animals: Textbook and Colour Atlas (7th ed.). Thieme.
Assignments	: de Lahunta, A., Glass, E., & Kent, M. (2020). Veterinary Neuroanatomy and Clinical Neurology (5th ed.). Elsevier.
Exams	: Budras, K. D., Sack, W. O., & Röck, S. (2011). Anatomy of the Dog: An Illustrated Text (5th ed.). Schlütersche.
	Evcil Hayvanların Anatomi Atlası Popesko

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 100
Social Sciences	: 0	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Palpable lymphatic nodes and intravenous enjectable vessels in clinic.	Study on the lesson	1. Yildiz, H., Yildiz, B., Bahadır, A. (2003)
2	Epidural anaesthesia regions	Study on the lesson	1. Yildiz, H., Yildiz, B., Bahadır, A. (2003)
3	Choice regions for esophagotomy and tracheotomy	Study on the lesson	1. Yildiz, H., Yildiz, B., Bahadır, A. (2003)
4	Choice points for regional anaesthesia in thoracic limb	Study on the lesson	1. Yildiz, H., Yildiz, B., Bahadır, A. (2003)
5	Choice points for regional anaesthesia in pelvic limb	Study on the lesson	1. Yildiz, H., Yildiz, B., Bahadır, A. (2003)
6	Clinical anatomy of regio crani	Study on the lesson	1. Yildiz, H., Yildiz, B., Bahadır, A. (2003)
7	Clinical anatomy of regio coli	Study on the lesson	1. Yildiz, H., Yildiz, B., Bahadır, A. (2003)
8	Clinical anatomy of regio thoracis	Study on the lesson	1. Yildiz, H., Yildiz, B., Bahadır, A. (2003)
9	Clinical anatomy of regio abdominis	Study on the lesson	1. Yildiz, H., Yildiz, B., Bahadır, A. (2003)
10	Clinical anatomy of regio pelvis	Study on the lesson	1. Yildiz, H., Yildiz, B., Bahadır, A. (2003)
11	MIDDLE EXAM		
12	Clinical anatomy of regio inguinalis	Study on the lesson	1. Yildiz, H., Yildiz, B., Bahadır, A. (2003)
13	Clinical anatomy of regio perinei	Study on the lesson	1. Yildiz, H., Yildiz, B., Bahadır, A. (2003)
14	Age determination accormiq to teeth and horns	Study on the lesson	1. Yildiz, H., Yildiz, B., Bahadır, A. (2003)
15	Clinical case evaluations and general review		
16	Final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the topographic relationships of clinically important anatomical structures.
C02	Explains the clinical importance of anatomical structures related to organ systems.
C03	Applies anatomical knowledge in clinical examination, palpation, and injection sites.
C04	Analyzes the location and relationships of anatomical structures in surgical procedures.
C05	Distinguishes anatomical structures in radiography, ultrasonography, and other imaging modalities.
C06	Acts in accordance with ethical principles and professional responsibilities in clinical anatomy practices.
C07	Expresses knowledge related to clinical anatomy verbally and in writing using scientific terminology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	12	12
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			66
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	4	4	4	4	4	4	3	4	4	3	3	3	3	5	5	5	5
C01	5	4	4	4	4	4	4	4	2	5	5	5	5	5	5	3	3	3	5
C02	5	5	4	5	5	4	5	5	5	5	4	4	4	4	4	5	5	5	3
C03	3	5	5	5	5	4	4	4	4	5	5	5	5	4	4	4	4	4	3
C04	3	3	5	4	4	5	4	5	4	5	3	5	4	5	3	5	4	3	5
C05	4	4	5	4	5	5	4	5	4	5	5	4	5	4	5	3	5	4	4
C06	5	5	5	3	5	4	5	5	5	5	3	5	4	4	3	5	5	3	5
C07	4	4	4	5	5	5	5	3	3	3	5	5	4	4	4	4	4	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET264 CLINICAL BIOCHEMISTRY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET264	CLINICAL BIOCHEMISTRY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The objective of this course is to provide knowledge and skills related to the analyses used in the diagnosis of animal diseases.

Teaching Methods and Techniques:

Methods and instruments used in clinical biochemistry Test selection, sample collection, transport, storage, and evaluation of biochemical test results

Prerequisites:

Course Coordinator:

Prof.Dr. Kıvanç İRAK

Instructors:

Prof.Dr. Kıvanç İRAK

Assistants:

Recommended Sources

Textbook	:	Mehmetoglu, I., Gurbilek, M., Caglayan, O., & Kocyigit, A. (2002). Handbook of clinical biochemistry laboratory. İnci Ofset Publishing.
Resources	:	Burtis, C. A., & Ashwood, E. R. (2005). Tietz fundamentals of clinical chemistry. Palme Publishing.
Documents	:	Akbay, A., Öztaş, Y., Bozdayı, G. 2000. Basic Concepts in Clinical Laboratory, Ankara University Publications, Ankara,
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction to clinical biochemistry and biological samples		Burtis. C. A., Ashwood E. R. 2005. Tietz
2	Methods and instruments used in clinical biochemistry		Mehmetoglu, I., Gurbilek, M., Caglayan,
3	Test selection, sampling, transport, storage, evaluation of results		Mehmetoglu, I., Gurbilek, M., Caglayan,
4	Water-electrolyte imbalance disorders		Mehmetoglu, I., Gurbilek, M., Caglayan,
5	Routine biochemical tests		Mehmetoglu, I., Gurbilek, M., Caglayan,
6	Digestive function and a case-based approach		Mehmetoglu, I., Gurbilek, M., Caglayan,
7	Pancreatic function and dysfunction		Mehmetoglu, I., Gurbilek, M., Caglayan,
8	Midterm exam		Mehmetoglu, I., Gurbilek, M., Caglayan,
9	Liver function tests		Mehmetoglu, I., Gurbilek, M., Caglayan,
10	Hypothalamic-pituitary function and disorders		Mehmetoglu, I., Gurbilek, M., Caglayan,
11	Thyroid and parathyroid gland functions and tests		Mehmetoglu, I., Gurbilek, M., Caglayan,
12	Mineral metabolism and disorders		Mehmetoglu, I., Gurbilek, M., Caglayan,
13	Inherited metabolic disorders		Mehmetoglu, I., Gurbilek, M., Caglayan,
14	Vitamins and deficiency		Mehmetoglu, I., Gurbilek, M., Caglayan,
15	Case-based laboratory approach		Mehmetoglu, I., Gurbilek, M., Caglayan,
16	Midterm exam		Mehmetoglu, I., Gurbilek, M., Caglayan,

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the basic parameters used in clinical biochemistry and their physiological significance.
C02	Interprets the principles of biochemical tests used in the evaluation of organ functions.
C03	Applies appropriate sampling, sample preparation, and analytical procedures in clinical biochemical analyses.
C04	Analyzes findings related to animal health by evaluating clinical biochemistry laboratory results.
C05	Relates biochemical alterations associated with metabolic and systemic diseases.
C06	Uses clinical biochemical data in diagnostic processes.
C07	Evaluates current scientific developments in the field of clinical biochemistry.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	2	6	12
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	4	5	5	4	4	4	3	5	3	5	2	2	4	5	5	5
C01	5	5	4	3	5	5	3	3	3	2	4	2	3	2	4	4	4	4	4
C02	4	4	5	4	5	5	4	4	3	3	5	2	5	2	2	4	5	4	5
C03	4	4	5	5	5	5	4	4	4	3	5	2	5	2	2	5	5	5	5
C04	4	4	5	4	5	5	4	4	4	4	5	3	5	2	4	4	5	5	5
C05	4	4	5	4	5	5	5	4	4	4	5	3	2	4	5	5	5	5	5
C06	4	4	5	4	5	5	4	4	4	4	5	3	5	2	2	5	5	5	5
C07	5	5	4	4	4	4	4	4	3	3	5	2	4	2	2	5	4	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET238 CLINICAL ANATOMY OF WINGS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET238	CLINICAL ANATOMY OF WINGS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach clinically important anatomical structures in avian species and to enable students to gain the ability to use anatomical knowledge in clinical examination, surgical procedures, imaging, and diagnostic applications.

Teaching Methods and Techniques:

This course covers clinically important anatomical structures, topographic anatomy, surface anatomy, injection and palpation sites, surgical approaches, and imaging anatomy in avian species. In addition, the importance of anatomical knowledge in clinical diagnosis and treatment applications is examined.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Fatma İŞBİLİR

Instructors:

Associate Prof.Dr. Fatma İŞBİLİR Associate Prof.Dr. Barış Can GÜZEL

Assistants:

Research Assist. Muhammed Zahid ATLI

Recommended Sources	
Textbook	: Nickel, R., Schummer, A., & Seiferle, E. (1977). Anatomy of the Domestic Birds. Verlag Paul Parey.
Resources	: Dyce, K. M., Sack, W. O., & Wensing, C. J. G. (2017). Textbook of Veterinary Anatomy (5th ed.). Elsevier.
Documents	: King, A. S., & McLelland, J. (1984). Birds: Their Structure and Function (2nd ed.). Baillière Tindall.
Assignments	: McLelland, J. (1990). A Colour Atlas of Avian Anatomy. Wolfe Publishing.
Exams	: Getty, R. (Ed.). (1975). Sisson and Grossman's The Anatomy of the Domestic Animals. Saunders. Dursun N., Evcil Kusların Anatomisi, Medisan Yayınevi, Ankara, 1994.

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 100
Social Sciences	: 0	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Significant anatomical differences between birds and mammals	Course of the study subjects planned to 1- Bahadır A., Yıldız H., Veteriner Anator	
2	Parts of the skeleton and the bones that make up the skeleton of poultry	Course of the study subjects planned to - Bahadır A., Yıldız H., Veteriner Anator	
3	Arthroloji poultry and myoloji	Course of the study subjects planned to 1- Bahadır A., Yıldız H., Veteriner Anator	
4	The anatomical structure of the heart, vascular system with the location and neighborhoods	Course of the study subjects planned to - Bahadır A., Yıldız H., Veteriner Anator	
5	Poultry respiratory system and respiratory organs and air pouches	Course of the study subjects planned to 1- Bahadır A., Yıldız H., Veteriner Anator	
6	Poultry digestion system organs, the liver, spleen and pancreas	Course of the study subjects planned to - Bahadır A., Yıldız H., Veteriner Anator	
7	Organs of the urinary tract in poultry	Course of the study subjects planned to 1- Bahadır A., Yıldız H., Veteriner Anator	
8	mid exam		
9	The importance of the location and structure of poultry cloacae	Course of the study subjects planned to 1- Bahadır A., Yıldız H., Veteriner Anator	
10	Poultry skin and skin modifications	Course of the study subjects planned to - Bahadır A., Yıldız H., Veteriner Anator	
11	Poultry and bodies of the sense of sight	Course of the study subjects planned to 1- Bahadır A., Yıldız H., Veteriner Anator	
12	The organ of hearing in poultry	Course of the study subjects planned to - Bahadır A., Yıldız H., Veteriner Anator	
13	And locations of the endocrine organs in poultry	Course of the study subjects planned to - Bahadır A., Yıldız H., Veteriner Anator	
14	Makes it easy to fly in poultry buildings	Course of the study subjects planned to - Bahadır A., Yıldız H., Veteriner Anator	
15	General review and clinical practice evaluations	Course of the study subjects planned to - Bahadır A., Yıldız H., Veteriner Anator	
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the topographic relationships of clinically important anatomical structures in avian species.
C02	Explains the clinical importance of anatomical structures related to organ systems in avian species.
C03	Applies anatomical knowledge in clinical examination, palpation, and injection sites in avian species.
C04	Analyzes the location and relationships of anatomical structures in avian surgery.
C05	Distinguishes anatomical structures of avian species in radiography and other imaging modalities.
C06	Acts in accordance with ethical principles and professional responsibilities in clinical avian anatomy practices.
C07	Expresses knowledge related to clinical avian anatomy verbally and in writing using scientific terminology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	12	12
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			66
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	4	4	4	3	3	3	4	5	4	5	5	3	3	3	3	3	3
C01	5	5	4	4	4	4	4	5	5	5	5	3	3	3	5	5	4	4	4
C02	4	4	4	5	2	4	4	3	3	3	3	3	5	4	4	4	4	4	3
C03	3	3	5	4	5	4	5	5	4	5	3	4	5	4	4	3	5	4	5
C04	3	5	4	4	4	5	5	5	5	3	5	5	5	4	4	4	3	3	3
C05	5	5	5	5	4	4	4	4	3	3	3	3	3	5	5	5	5	4	4
C06	4	4	3	5	4	5	5	5	3	5	4	5	4	4	4	4	5	4	4
C07	5	5	3	5	4	5	3	5	4	5	3	5	4	5	3	5	4	5	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET266 LABORATORY ANIMAL DISEASES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET266	LABORATORY ANIMAL DISEASES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide knowledge about the biology, life requirements, and standard housing conditions of laboratory animals; to teach ethical approaches to animal experimentation; to introduce basic surgical techniques; to explain biosafety measures in vivariums; and to raise awareness about zoonotic diseases.

Teaching Methods and Techniques:

The content of this course includes species characteristics of laboratory animals, life and nutritional requirements, standard care and housing conditions, ethical principles in animal experimentation, basic procedures and minor surgical techniques in laboratory animals, biosafety rules in vivariums, and general features of zoonotic diseases.

Prerequisites:

Course Coordinator:

Prof.Dr. HURREM TURAN AKKOYUN

Instructors:

Prof.Dr. HURREM TURAN AKKOYUN

Assistants:

Recommended Sources	
Textbook	: Hau, J., & Hoosier, G. L. V. (Eds.). (n.d.). Laboratory animal science (Vols. I–II, 2nd ed.). CRC Press.
Resources	: Hedrich, H. J. (Ed.). (2012). The laboratory mouse (translated edition). Academic Press / Elsevier.
Documents	:
Assignments	:
Exams	:

Course Category		
Mathematics and Basic Sciences	Education	:
Engineering	Science	:
Engineering Design	Health	: 100
Social Sciences	Field	:

Course Content		
Week	Topics	Study Materials Materials
1	Course objectives, scope, learning outcomes, references, and assessment methods are introduced.	Review of course syllabus and introductionHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
2	Animal experimentation laws and bioethics principles are covered.	Basic ethical concepts should be reviewedHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
3	Anatomical and physiological features of laboratory animals are covered.	Basic anatomy and physiology should be reviewedHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
4	Housing and feeding conditions are theoretically covered.	Animal welfare and husbandry conditionsHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
5	Laboratory animal breeding methods are covered.	Basic breeding systems should be reviewedHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
6	Genetic standardization and control methods are covered.	Genetic variation and standardizationHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
7	Seminar and scientific presentation preparation processes are covered.	Scientific presentation techniques should be reviewedHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
8	Midterm examination is conducted.	
9	Bacterial diseases in laboratory animals are covered.	Basic microbiology should be reviewedHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
10	Viral diseases in laboratory animals are covered.	Basic virology should be reviewedHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
11	Parasitic and fungal diseases in laboratory animals are covered.	Parasitology and fungal diseases should be reviewedHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
12	Necropsy techniques and post-mortem examination methods are covered.	Basic anatomy and pathology should be reviewedHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
13	Microbiological standardization and health monitoring systems are covered.	Basic hygiene and microbiology should be reviewedHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
14	Laboratory animal models and their use in scientific research are covered.	Role of laboratory animals in researchHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
15	Zoonotic diseases and their importance in public health are covered.	Infectious diseases and zoonosis conceptsHau, J., & Hoosier, G. L. V. (Eds.). (n.d.).
16	Final examination is conducted.	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains biosafety rules, animal rights, ethical principles, and relevant legal regulations related to laboratory animal studies.
C02	Explains the anatomical and physiological characteristics of laboratory animals.
C03	Applies species-appropriate housing, feeding, and husbandry practices for laboratory animals.
C04	Performs basic health assessments in laboratory animals and applies fundamental practices for disease diagnosis and prevention.
C05	Conducts laboratory animal studies responsibly in accordance with ethical principles, biosafety regulations, and animal welfare requirements.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P11	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	16	16
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	16	16
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	4	5	4	5	4	4	4	4	3	3	3	3	3	2	2	2
C01	3	3	3	3	2	3	3	2	2	4	4	2	2	2	4	2	2	2	2
C02	4	3	3	3	2	2	2	3	2	2	2	2	2	2	2	2	2	2	3
C03	3	3	3	3	3	3	3	4	3	2	3	2	2	2	3	3	2	2	2
C04	3	3	4	3	2	4	4	3	2	2	2	2	3	3	3	2	2	3	3
C05	4	4	4	3	3	4	4	4	2	4	4	2	3	3	4	3	2	2	2

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		%0

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			0
ECTS Credit of the Course			0

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant



Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET240 PROFESSIONAL ENGLISH-IV					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET240	PROFESSIONAL ENGLISH-IV	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To teach students the English and Turkish equivalents of general terminology in related fields-to gain the ability to understand the parts of the profession

Teaching Methods and Techniques:

This course is a continuation of the vocational English IV course, which gives students the ability to teach general terminology in English and Turkish equivalents in related fields and to understand the parts of the profession.

Prerequisites:

Course Coordinator:

Asist. Prof.Dr. ÖZNUR YILMAZ

Instructors:

Assistants:

Recommended Sources	
Textbook	: Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Resources	: Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Documents	:
Assignments	:
Exams	:

Course Category		
Mathematics and Basic Sciences	:	Education
Engineering	:	Science
Engineering Design	:	Health
Social Sciences	:	Field
		: 100

Course Content		
Week	Topics	Study Materials Materials
1	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
2	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
3	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
4	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
5	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
6	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
7	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
8	Midterm exam	Course of the study subjects planned to Medical Passages & Vocabulary for UDS
9	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
10	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
11	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
12	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
13	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
14	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
15	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS

Course Learning Outcomes	
No	Learning Outcomes
C01	Learning English terminology that can be encountered throughout the professional life
C02	To gain the ability to understand medical articles at intermediate and advanced levels.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment	Quantity	Percentage
In-Term Studies		
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	15	2	30
Hours for off-the-c.r.stud	15	2	30
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			62
ECTS Credit of the Course			2

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Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET228 MICROBIOLOGY-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET228	MICROBIOLOGY-I	3	2	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

To teach biology of the microorganisms, to define host-microorganism-environment interactions, to give hygiene and sterilisation principles, to get students acquired fundamental bacterioscopic methods. Students are expected to acquire a basic medical how microorganisms live, react and grow in various conditions.

Teaching Methods and Techniques:

General Characteristics of Bacteria, Phenotypic Variations, Genetics of microorganisms, Transfer of hereditary material, Examination, Extrachromosomal genetic elements, Bacteria viruses, pathogenicity, Microbial Antigens, Morphology of fungi, Metabolism of fungi, Viruses, Biotechnology

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Özgül GÜLAYDIN

Instructors:

Asist Prof.Dr. Songül ÖTKÜNAsist Prof.Dr. Muazzez YEŞİLYURAssociate Prof. Dr. Özgül GÜLAYDIN

Assistants:

Research Assist. Mustafa Berkan GÜL

Recommended Sources	
Textbook	: TEMEL MİKROBİYOLOJİ (2000) Arda M, Medisan, Ankara.
Resources	: VETERINARY MICROBIOLOGY and MICROBIAL DISEASE (2002) Quinn PJ et al. Blackwell Pub.Co., UK., VETERİNER MİKROBİYOLOJİ (2006) Aydın N
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	World and Turkish history of microbiology	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
2	Morphology, chemical structures, nutrition, enzymes	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
3	Metabolism, Factors affecting growth	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
4	Morphologic, cultural and others	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
5	Genomic material of microorganisms, nucleic acids	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
6	Transformation, conjugation, transduction	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
7	Plasmids, episomes and mobile genetic elements	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
8	Midterm exam		
9	Bacteriophages, infection mechanism	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
10	Antigens from bacteria, fungi and viruses	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
11	Microscopic, macroscopic characterization	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
12	Nutrition, physiology, and metabolism	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
13	General characteristics of viruses	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
14	Cloning, amplification, typing	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
15	Molecular diagnostic methods and applications	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
16	Final exam		

Recommended Optional Programme Components
VET251 LABORATORY WORKING PRINCIPLES

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the basic characteristics of microorganisms.
C02	Explains the growth, metabolic and genetic mechanisms of microorganisms.
C03	Distinguishes the basic criteria used in the classification of microorganisms.
C04	Interprets the fundamental laboratory methods used in microbiological diagnosis.
C05	Evaluates the importance of microorganisms in veterinary medicine.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			86
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	4	5	3	4	5	2	3	3	3	2	3	3	4	3	3	4	5
C01	5	4	4	5	4	4	4	2	3	2	3	2	3	3	4	3	3	3	4
C02	5	5	4	5	3	4	5	2	3	3	3	2	3	3	4	3	3	3	5
C03	5	4	4	5	3	4	4	2	3	2	3	2	3	3	4	3	3	4	4
C04	5	4	4	5	3	4	4	2	3	2	3	2	3	3	3	3	3	4	4
C05	5	5	4	5	3	4	5	2	3	3	3	2	3	3	4	4	3	4	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET244 MICROBIOLOGICAL DIAGNOSIS METHODS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET244	MICROBIOLOGICAL DIAGNOSIS METHODS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

In this course, it is aimed for students to comprehend the basic principles of conventional and modern microbiological techniques used in the diagnosis of infectious diseases, to develop appropriate sampling strategies, and to gain the competence to reach accurate diagnoses by synthesizing laboratory findings with clinical data.

Teaching Methods and Techniques:

The course covers the collection and transport of clinical specimens, microscopic examination, isolation and identification methods, serological tests, and molecular diagnostic technologies (PCR, NGS, etc.).

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Associate Prof.Dr. Gülşah AKGÜL

Assistants:

Research Assist. mahsum Başak

Recommended Sources	
Textbook	: TEMEL MİKROBİYOLOJİ (2000) Arda M, Medisan, Ankara.
Resources	: VETERINARY MICROBIOLOGY and MICROBIAL DISEASE (2002) Quinn PJ et al. Blackwell Pub.Co., UK., VETERİNER MİKROBİYOLOJİ (2006) Aydın N
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	World and Turkish history of microbiology	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
2	Morphology, chemical structures, nutrition, enzymes	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
3	Metabolism, Factors affecting growth	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
4	Morphologic, cultural and others	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
5	Genomic material of microorganisms, nucleic acids	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
6	Transformation, conjugation, transduction	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
7	Transformation, conjugation and transduction	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
8	Midterm		
9	Plasmids, episomes, etc	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
10	Bacteriophages, infection mechanism	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
11	Antigens from bacteria, fungi and viruses	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
12	Microscopic, macroscopic characterization	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
13	Nutrition, physiology, and metabolism	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
14	General characteristics of viruses	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
15	Cloning, amplification, typing	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi
16	Final exam	Research on the subject	Temel Mikrobiyoloji, Mustafa Arda, Medi

Recommended Optional Programme Components
VET515 MICROBIOLOGY

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the basic terminology and methodological principles in microbiological diagnostic processes
C02	Selects appropriate clinical specimen collection and transport protocols for different infectious agents.
C03	Prepares specific media for the isolation of microorganisms and applies inoculation techniques.
C04	Analyzes serological and molecular test results in light of sensitivity and specificity parameters.
C05	Designs a multi-stage laboratory algorithm to diagnose an unknown pathogen.
C06	Performs differential diagnosis by synthesizing microbiological data with clinical findings.
C07	Demonstrates working discipline in accordance with laboratory biosafety rules and ethical principles.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	12	2	24
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			69
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	4	3	4	5	1	1	3	3	1	5	4	5	4	1	5	5
C01	5	4	5	4	3	4	5	1	1	3	3	1	5	4	4	1	3	5	5
C02	4	4	4	5	2	4	3	1	1	2	2	1	5	4	3	1	3	5	5
C03	4	3	5	5	3	4	5	1	1	2	3	1	5	4	4	1	4	4	5
C04	5	5	4	4	3	3	4	1	1	4	2	1	4	3	3	1	4	4	5
C05	5	4	4	4	4	5	5	2	2	4	4	2	5	5	5	2	4	5	5
C06	5	5	5	3	4	3	5	5	1	1	3	4	2	5	5	1	3	5	5
C07	4	4	4	4	4	5	1	1	1	3	5	1	4	4	5	1	3	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET236 DUCKS, GEESE AND TURKEY BREEDING					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET236	DUCKS, GEESE AND TURKEY BREEDING	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide knowledge about reproduction, care, feeding, and diseases in turkey, goose, and duck production and to introduce breeding practices.

Teaching Methods and Techniques:

Includes general information breeding, reproduction and management of turkey, goose and duck.

Prerequisites:

Course Coordinator:

Prof.Dr. Tuncay TUFAN

Instructors:

Associate Prof.Dr. Cahit ÖZCAN

Assistants:

Recommended Sources

Textbook	:	Türkoğlu, M., Sarıca, M., ve Eleroğlu, H. 2005. Hindi Yetiştiriciliği. Otak Form-Ofset, Samsun, Türkiye; Appleyard, R. 2008. Geese Breeding, Rearin
Resources	:	Türkoğlu, M., Sarıca, M., ve Eleroğlu, H. 2005. Hindi Yetiştiriciliği. Otak Form-Ofset, Samsun, Türkiye; Appleyard, R. 2008. Geese Breeding, Rearin
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathmatics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 100

Course Content

Week	Topics	Study Materials	Materials
1	The economic importance of turkey bereding and its production in Turkey and the world.	Course of the study subjects planned to Türkoğlu, M., Sarıca, M., ve Eleroğlu, H.	
2	Turkey breeds and hibrids	Course of the study subjects planned to Türkoğlu, M., Sarıca, M., ve Eleroğlu, H.	
3	turkey genetics and improvement	Course of the study subjects planned to Türkoğlu, M., Sarıca, M., ve Eleroğlu, H.	
4	Poult breeding and parent stock breeding	Course of the study subjects planned to Türkoğlu, M., Sarıca, M., ve Eleroğlu, H.	
5	Nutrition and incubation of turkey.	Course of the study subjects planned to Türkoğlu, M., Sarıca, M., ve Eleroğlu, H.	
6	Turkey fattening	Course of the study subjects planned to Türkoğlu, M., Sarıca, M., ve Eleroğlu, H.	
7	Slaughter and pröducts of turkey	Course of the study subjects planned to Türkoğlu, M., Sarıca, M., ve Eleroğlu, H.	
8	Midterm		
9	Health protection in turkey	Course of the study subjects planned to Türkoğlu, M., Sarıca, M., ve Eleroğlu, H.	
10	The economic importance of goose and duck bereding	Course of the study subjects planned to Appleyard, R. 2008. Geese Breeding, Re	
11	Goose and duck breeds, genetics and improvement	Course of the study subjects planned to Appleyard, R. 2008. Geese Breeding, Re	
12	Goose and duck breeding and parent stock breeding	Course of the study subjects planned to Appleyard, R. 2008. Geese Breeding, Re	
13	Nutrition and incubation of goose and duck	Course of the study subjects planned to Appleyard, R. 2008. Geese Breeding, Re	
14	Duck fattening	Course of the study subjects planned to Roscoe, C. 2011. Ducks and Duck Breed	
15	Health protection in goose and duck	Course of the study subjects planned to Appleyard, R. 2008. Geese Breeding, Re	
16	Final exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Learns economic importance, production and consumption of turkey, goose and duck
C02	Learns biological properties of turkey, goose and duck.
C03	Learns breeding, housing and need of equipment in turkey, goose and duck.
C04	Learns about supply of material, its importance and genetic improvement in turkey, goose and duck.
C05	Learns products quality in turkey, goose and duck and makes its analysis in the laboratory.
C06	Learns diseases in turkey, goose and duck and the ways of preventing the disease.
C07	Learns hatchery management and makes practice in turkey, goose and duck.
C08	Learns the breeding according to yield and makes practice in turkey, goose and duck.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET212 PATHOLOGY-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET212	PATHOLOGY-I	4	3	4

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to teach the fundamental pathological processes at the cellular and tissue levels underlying diseases in veterinary medicine.

Teaching Methods and Techniques:

This course covers cell injury, degeneration, necrosis, apoptosis, inflammation, circulatory disturbances, immune responses, and tissue repair mechanisms. The general pathogenesis of diseases is examined at both macroscopic and microscopic levels.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Özgür ÖZÖNER

Instructors:

Asist Prof.Dr. İhsan İşbilir

Assistants:

Research Assist. Betül Orhan

Recommended Sources

Textbook	:	Veteriner Genel Patoloji, Prof. Dr. Hüdaverdi Erer, Prof. Dr. Metin Münir Kiran, Prof. Dr. M. Kemal Çiftçi, Bahçvanlar Basım, Konya, 2000
Resources	:	Erer, H., Çiftci, M. K., & Kiran, M. M. (2022). Veterinary general pathology. Nobel Medical Bookstore.
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Laboratory Rules	Course of the study subject planned to t	
2	definition and development of inflammation, causes of inflammation, vascular changes, liquordiapedesis, cell exudation, va	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	
3	exudative, alterative, proliferative, granulomatous, classification of the inflammations according to the duration	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	
4	disease causes and response to infection	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	
5	Necrosis	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	
6	degeneration	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	
7	metabolic disorders	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	
8	Middle Exam	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	
9	immunopathology	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	
10	cell growth disorders	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	
11	cell differentiation disorders	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	
12	anomalies	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	
13	inclusion bodies	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	
14	inclusion bodies	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	
15	topic repetition	Course of the study subjects planned to Veteriner Genel Patoloji, Prof. Dr. Hüdav	
16	End-of-Term Exam	Course of the study subjects planned to Erer, H., Çiftci, M. K., & Kiran, M. M. (20	

Course Learning Outcomes

No	Learning Outcomes
C01	Genel patolojinin temel kavramlarını ve hastalık mekanizmalarını açıklar.
C02	Analyzes cell injury, inflammation, and circulatory disturbances.
C03	Evaluates macroscopic and microscopic pathological findings.
C04	Performs differential diagnosis between different pathological processes.
C05	Relates pathological findings with clinical data.
C06	Relates pathological findings with clinical data.
C07	Applies general pathology knowledge in professional practice.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
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P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	25	25
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	25	25
Total Work Load			106
ECTS Credit of the Course			4

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	4	4	4	4	5	4	4	4	3	4	3	3	3	4	4	4
C01	5	4	5	4	4	3	4	5	4	4	4	3	4	3	3	3	4	4	4
C02	4	4	5	4	4	4	4	5	4	4	4	3	4	3	3	3	4	4	4
C03	4	4	5	4	4	4	4	5	5	4	4	3	5	3	3	3	4	4	4
C04	4	4	5	4	4	4	4	5	5	4	4	3	5	3	3	3	4	4	4
C05	4	4	5	4	4	4	4	5	4	4	4	3	5	4	3	3	4	4	4
C06	4	4	5	4	4	4	4	5	4	4	4	3	5	4	3	3	4	4	4
C07	4	4	5	4	4	4	4	5	4	5	4	3	5	4	3	3	4	4	4

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
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P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		%0

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			0
ECTS Credit of the Course			0

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant



Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET208 VIROLOGY-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET208	VIROLOGY-I	3	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to provide students with fundamental knowledge and skills regarding the structures, replication mechanisms, pathogenesis, epidemiology, diagnostic methods, prevention, and control strategies of viruses important in veterinary medicine.

Teaching Methods and Techniques:

This course covers the general properties of viruses, virus classification, replication mechanisms, virus-host interactions, immune responses, viral diseases important in veterinary medicine, laboratory diagnostic methods, prevention, and biosafety practices.

Prerequisites:

Course Coordinator:

Asist.Prof.Dr. Dr. Öğr. Üyesi AYFER FINDIK

Instructors:

Assistants:

Research Assist. Erdal Polat

Recommended Sources	
Textbook	: GENEL VİROLOJİ (Prof.Dr.Feridun ÖZTÜRK,2002)
Resources	: Genel Viroloji Ders Notları: Prof. Dr. İbrahim Burgu, Prof. Dr. Yılmaz Akça, AÜ Basımevi, 2003. 2. Özel Viroloji Ders Notları: Prof. Dr. İbrahim Burgu
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 60
Social Sciences	:	Field	: 40

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to veterinary virology and basic concepts	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
2	Structure, morphology, and classification of viruses	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
3	Viral replication mechanisms	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
4	Virus-host interactions and viral pathogenesis	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
5	Antiviral immune response and immunopathogenesis	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
6	Laboratory diagnostic methods in veterinary virology	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
7	RNA viruses and important veterinary diseases	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
8	Mid term exam		
9	DNA viruses and important veterinary diseases	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
10	Arboviral infections	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
11	Diagnostic tests for viruses and viral diseases	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
12	Prevention, vaccination, and biosafety in viral diseases	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
13	Interference and Interferon	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
14	Viral Genetics	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
15	Pathogenesis of viral diseases	Study on the lesson	Genel Viroloji Ders Notları: Prof. Dr. İbra
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the morphological, genetic, and replicative characteristics of viruses important in veterinary medicine.
C02	Interprets the interaction mechanisms of viruses with host cells and the pathogenic processes they cause.
C03	Analyzes the epidemiological characteristics of viral infections observed in animals.
C04	Compares prevention, biosafety, and vaccination strategies for viral diseases and selects appropriate control methods.
C05	Follows current scientific developments in veterinary virology and relates them to professional practices.
C06	Presents solution proposals for the diagnosis, control, and prevention of viral diseases within the framework of scientific and ethical principles.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P02	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
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P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	4	4
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	4	3	4	5	4	3	4	4	2	5	5	5	3	4	5	5
C01	5	4	4	3	2	4	4	4	2	3	3	1	3	2	2	1	2	2	3
C02	4	4	5	3	2	4	5	4	2	3	3	1	4	3	3	1	2	3	3
C03	3	4	5	5	3	4	4	4	4	4	3	3	5	4	4	3	5	5	5
C04	3	3	5	3	3	4	5	4	4	4	3	2	5	5	5	3	4	5	4
C05	3	4	4	3	4	5	5	4	4	4	4	2	4	5	5	3	3	5	4
C06	4	4	5	3	3	5	5	5	4	5	5	3	5	5	5	4	4	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET218 FEEDS AND FEEDS TECHNOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET218	FEEDS AND FEEDS TECHNOLOGY	4	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

Teaching animal feeds, feed processing, nutrient contents, feed analysis and feed additives

Teaching Methods and Techniques:

Theoretical and practical training of the necessary knowledge and skills for veterinarians candidates according to the type of animal nutrition

Prerequisites:

Course Coordinator:

Instructors:

Associate Prof.Dr. Cahit ÖZCAN

Assistants:

Recommended Sources

Textbook	:	1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yalçın, S., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Yemler, Yem Hijyeni ve Teknolojisi.
Resources	:	1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yalçın, S., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Yemler, Yem Hijyeni ve Teknolojisi.
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 25
Social Sciences	:	Field	: 75

Course Content

Week	Topics	Study Materials	Materials
1	Introduction, Nutrients	Course of the study subjects planned to 1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
2	Nutrients	Course of the study subjects planned to 1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
3	Nutrients values of Feeds, Chemical analysis, digestibility	Course of the study subjects planned to 1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
4	Determination of feeds digestibility, Factor affecting the digestibility	Course of the study subjects planned to 1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
5	Determination of feeds digestibility, Factor affecting the digestibility	Course of the study subjects planned to 1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
6	Feeds, dry forage feeds, pasture forages, Other green feeds	Course of the study subjects planned to 1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
7	Feeds, Dry forage feeds, Pasture forages, other green feeds	Course of the study subjects planned to 1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
8	midterm exam		
9	Silage	1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
10	High protein and high energy feeds	Course of the study subjects planned to 1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
11	High protein and high energy feeds	Course of the study subjects planned to 1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
12	Feed additives	Course of the study subjects planned to 1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
13	Feed additives	Course of the study subjects planned to 1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
14	Feed processing	Course of the study subjects planned to 1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
15	General review	Course of the study subjects planned to 1) Ergün, A., Tuncer, Ş.D., Çolpan, İ., Y.	
16	Final exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Learn and recognize of feedstuffs
C02	Knowledge about feed analysis methods
C03	Learn and knowledge nutrient contents of feeds and feedstuffs widely used in animal nutrition
C04	Knows the effects on the metabolism of different species of animal of feedstuffs

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET210 ANIMALBREEDNG-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
4	VET210	ANIMALBREEDNG-II	5	4	4

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

Sheep, goats , chickens and to provide basic information to students in pig breeding issues. According to the types of pet breeds , morphological and physiological characteristics, growing conditions, shelter and landscaping.

Teaching Methods and Techniques:

Includes general informations sheep and goat breeds in the World and Turkey, sheep and goat barns, breeding knowledge and technical works, hen breeds, hen hutches, hutch conditions, equipments, breeding mthods, broiler and laying hens incubation and incubation technology.

Prerequisites:

Course Coordinator:

Instructors:

Asist Prof.Dr. Mehmet EROĞLUAssociate Prof.Dr. Ali Osman TURGUT

Assistants:

Recommended Sources	
Textbook	: 1) AKÇAPINAR Halil (1994). Koyun Yetiştiriciliği. Ankara Üniversitesi Veteriner fakültesi, Ankara 2) KAYMAKÇI Mustafa, AŞKIN Yücel (1997). Keçi Y
Resources	: 1) AKÇAPINAR Halil (1994). Koyun Yetiştiriciliği. Ankara Üniversitesi Veteriner fakültesi, Ankara 2) KAYMAKÇI Mustafa, AŞKIN Yücel (1997). Keçi Y
Documents	:
Assignments	:
Exams	:

Course Category			
Mathmatics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 100

Course Content			
Week	Topics	Study Materials	Materials
1	Economic importance of sheep	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti
2	Domestication of sheep	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti
3	Sheep breeds of Turkey	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti
4	Sheep breeds of World	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti
5	Reproductive Traits of Sheep	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti
6	Management applications in Sheep Husbandry	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti
7	Goat breeding	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti
8	Midterm exam		
9	Wool of sheep and mohair of goat knowledge	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti
10	Chicken breeds, Chicken breeding knowledge, Poultry houses and equipments	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti
11	Poultry houses and equipments, Environmental factors in hen houses, Evaluation of egg quality, Behaviour of the chickens,	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti
12	Selection and culling methods, Physiologic needs of chickens	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti
13	Broiler Rearing, Breeder rearing, Layer hen rearing	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti
14	Hatchery knowledge	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti
15	Pig rairing	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti	Course of the study subjects planned to 1) AKÇAPINAR Halil (1994). Koyun Yeti

Course Learning Outcomes	
No	Learning Outcomes
C01	To learn sheep and goat breeds
C02	Getting basic knowledge about sheep-goat barns and technical works
C03	To learn the products obtained in sheep and goat and the caharacteristics of these products
C04	Getting basic knowledge about layer and broiler hen beeds, the breeding of these hen breeds
C05	To learn hutches and hutches conditions

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	5	70
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	7	7
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	15	15
Total Work Load			120
ECTS Credit of the Course			4

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	1	1	1	1	1	5	1	1	1	1	1	1	1	5	1	1	1
C01	4	5	1	1	1	1	1	4	1	1	1	1	1	1	1	5	1	1	1
C02	5	3	1	1	1	1	1	5	1	1	1	1	1	1	1	4	1	1	1
C03	4	5	1	1	1	1	1	5	1	1	1	1	1	1	1	5	1	1	1
C04	5	5	1	1	1	1	1	5	1	1	1	1	1	1	1	4	1		1
C05	4	5	1	1	1	1	1	4	1	1	1	1	1	1	1	5	1	1	1

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET333 ALTERNATIVE POULTRY BREEDING					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET333	ALTERNATIVE POULTRY BREEDING	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

Students can be defined as alternative poultry quail , partridge and pheasant meat of this species breeds, eggs and brood production and maintenance of different periods , feeding and management methods ensure that information about the owner.

Teaching Methods and Techniques:

Partridge, pheasant and quail farming and the importance of features, partridge , pheasant and quail breeds, Hosting, Cluster types and equipment requirements, growth and production characteristics

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Memiş BOLACALI

Instructors:

Assistants:

Recommended Sources	
Textbook	:
Resources	: 1. Çetin O., Kırkçı K : Alternatif Kanatlı Yetiştiriciliği, S. Ü. Vakfı Yayınları, Konya, 2000.
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 25
Social Sciences	:	Field	: 75

Course Content			
Week	Topics	Study Materials	Materials
1	partridge , pheasant and quail production and properties of matter	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	
2	partridge , pheasant and quail place in the zoological classification	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	
3	partridge , pheasant and quail breeds	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	
4	Business site selection	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	
5	Hosting	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	
6	6 Set types and equipment needs	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	
7	Growth principles	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	
8	Midterm exam		
9	Reproductive characteristics	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	
10	Breeding period of maintenance and management of	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	
11	Incubation features	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	
12	Meat and egg production	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	
13	Production Planning	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	
14	Food needs	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	
15	Health protection methods and major diseases	Course of the study subjects planned to 1. Çetin O., Kırkçı K : Alternatif Kanatlı	

Course Learning Outcomes	
No	Learning Outcomes
C01	Can be defined as alternative poultry quail , partridge and pheasant recognize the breed.
C02	Said types of poultry meat , eggs and hatching will have information about production.
C03	Business structure with care in different periods of the species , feeding and management will be able to have sufficient information about the shape .

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	1	0,5	0,5
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	5,5	5,5
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			30,0
ECTS Credit of the Course			1

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET301 ANAESTHESIOLOGY AND REANIMATION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET301	ANAESTHESIOLOGY AND REANIMATION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to provide fundamental and advanced knowledge and skills in anesthesia and resuscitation practices in veterinary medicine.

Teaching Methods and Techniques:

This course covers anesthetic agents, anesthesia techniques, patient monitoring, pain management, and emergency intervention and resuscitation practices. Evaluations are conducted through clinical cases.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Barış AKGÜL

Instructors:

Asist Prof.Dr. Kadir SULU

Assistants:

Research Assist. Sevdet KILIÇ

Recommended Sources

Textbook	: Topal, A. (2005). Veterinary anesthesia. Nobel Medical Publishing.
Resources	: Koç, B., Santas, Z. K., & Şenel, O. O. (2021). Veterinary anesthesiology (1st ed.). Ankara Nobel Medical Publishing.
Documents	: Ünsaldı, S. (2022). Veterinary anesthesia (2nd ed.). Nobel Medical Publishing.
Assignments	: Fossum, T. W. (2019). Small animal surgery (5th ed.). Medipres Publishing.
Exams	:

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction to anesthesia and basic concepts		
2	Classification of anesthetic agents		
3	Premedication and sedation		
4	General anesthesia techniques		
5	Local and regional anesthesia		
6	Anesthesia equipment and devices		
7	Patient monitoring		
8	Midterm Exam		
9	Physiology of pain and analgesia		
10	Anesthesia complications		
11	Emergency management		
12	Resuscitation and CPR		
13	Species-specific anesthesia protocols		
14	Intensive care and postoperative follow-up		
15	Clinical case discussions		
16	Final Exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the basic concepts, pharmacological principles, and patient evaluation criteria related to anesthesia and reanimation.
C02	Performs preoperative examination and anesthetic risk assessment in different animal species.
C03	Applies appropriate anesthetic protocols in general and local anesthesia practices.
C04	Uses anesthesia devices, equipment, and monitoring systems effectively during anesthesia.
C05	Evaluates complications that may develop during anesthesia.
C06	Plans analgesia, fluid therapy, and postoperative care practices in surgical patients.
C07	Acts in accordance with ethical rules and animal welfare principles in anesthesia and reanimation practices.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	3	5	5	3	5	5	4	4	3	4	5	5	3	2	2	3	4	4
C01	5	4	4	2	3	4	3	4	2	2	3	2	3	1	1	1	2	2	2
C02	3	3	5	4	2	4	4	3	3	2	3	3	5	2	1	1	3	4	3
C03	3	2	5	5	3	5	4	3	4	2	3	5	5	2	1	1	3	4	3
C04	2	2	4	5	3	4	3	2	3	2	2	4	5	1	1	1	2	3	3
C05	3	2	5	4	2	5	5	4	5	3	4	5	5	3	2	2	4	5	5
C06	3	2	4	3	3	4	4	5	5	4	3	4	5	3	2	3	4	5	4
C07	2	3	3	2	2	3	3	4	4	5	5	2	3	4	4	3	3	3	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET345 OFF-LABEL DRUG USE AND ITS IMPORTANCE					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET345	OFF-LABEL DRUG USE AND ITS IMPORTANCE	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with an understanding of the concept of off-label drug use and its clinical, ethical, legal, and societal implications. Furthermore, the aim is to equip students with the ability to justify off-label drug use in different animal species, assess potential risks, and make appropriate decisions regarding rational drug use.

Teaching Methods and Techniques:

1. Introduction – Definition of Labeled and Off-Label Use 2. History and General Framework of Off-Label Use 3. Off-Label Use in Veterinary Medicine – Situation in Small Animals, Large Animals, and Exotic Species 4. Off-Label Use in Human Health – Clinical Examples and Applications 5. Reasons for Off-Label Use I – Differences in species/species, lack of licensed drugs 6. Reasons for Off-Label Use II – Dosage forms, age groups (juveniles, elderly), special circumstances 7. Pharmacological Basis – Pharmacokinetic/pharmacodynamic variability 8. Ethical Dimension – Animal welfare, physician responsibility, patient safety 9. Legal Dimension – National and international regulations, authority, and responsibilities 10. Economic Dimension – Drug costs, manufacturer responsibilities 11. Off-Label Use and Antimicrobial Resistance 12. Clinical Case Studies I – Small Animal Cases 13. Clinical Case Studies II – Farm and Exotic Animal Cases 14. General Assessment – Risk/benefit analysis, multidisciplinary approach

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources

Textbook	:	
Resources	:	WHO. Off-Label Use of Medicines: Overview and Recommendations,FDA – Animal Medicinal Drug Use Clarification Act (AMDUCA),Türkiye İlaç ve Tı
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction – Definition of Labeled Drug Use and Off-Label Use		
2	History and General Framework of Off-Label Use		
3	Off-Label Use in Veterinary Medicine – Situation in Small Animals, Large Animals, and Exotic Species		
4	Off-Label Use in Human Health – Clinical Examples and Applications		
5	Reasons for Off-Label Use I – Differences in species/species, Lack of Licensed Drugs		
6	Reasons for Off-Label Use II – Dosage Forms, Age Groups (Juveniles, Elderly), Special Situations		
7	Pharmacological Basis – Pharmacokinetic/Pharmacodynamic Variability		
8	Ethical Dimension – Animal Welfare, Physician Responsibility, Patient Safety		
9	Legal Dimension – National and International Regulations, Authorizations, and Responsibilities		
10	Economic Dimension – Drug Costs, Manufacturer Responsibilities		
11	Off-Label Use and Antimicrobial Resistance		
12	Clinical Case Studies I – Small Animal Cases		
13	Clinical Case Studies II – Farm and Exotic Animal Cases		
14	Overall Assessment – Risk/Benefit analysis, multidisciplinary approach		

Recommended Optional Programme Components

VET309 PHARMACOLOGY-I

VET304 PHARMACOLGY-II

Course Learning Outcomes

No	Learning Outcomes
C01	1. Defines off-label drug use and explains its difference from labeled use. 2. Lists examples of off-label use in veterinary and human medicine. 3. Analyzes the reasons for off-label use (pharmacol

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	0	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	7	1	7
Assignment	0	%0	Assignments	7	1	7
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	1	6	6
Project	0	%0	Practice	3	1	3
Final examination	0	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	9	9
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	5	4	5	4	4	5	4	5	5	4	5	5	4	5	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET309 PHARMACOLOGY-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET309	PHARMACOLOGY-I	4	3	4

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

Introduction to pharmacology Definitions, properties and sources of drug, The pharmacokinetic and pharmacodynamics The basic principles of drug therapy

Teaching Methods and Techniques:

Pharmacokinetic and pharmacodynamics, The adverse effects of drugs, Drugs acting on the autonomic nervous system, Drugs acting on the central nervous system, Drugs acting on the cardiovascular system and digitalis, Antihistaminics, Drugs acting on the cardiovascular system and digitalis, Local anesthetics, Behavioral disorder drugs

Prerequisites:

Course Coordinator:

Asist Prof.Dr. BURÇAK ASLAN

Instructors:

Assistants:

Recommended Sources	
Textbook	: Farmakoloji I ders notu (B.Traş, M.Elmas, Yazar.E, 2010)
Resources	: Genel Farmakoloji Ceylan,S., 2003 ,Veteriner Farmakoloji Cilt I, 4. baskı, Kaya S, 2006
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	General PharmacologyBasic Expectation in Drug UseMain Features of Drug EffectBranches of PharmacologySOURCES OF D		Veterinary Pharmacology and Therapeut
2	Pharmacokinetic Absorption, rate of absorption and influencing factorsDrug Administration RoutesBioavailabilityFactors affe		Veterinary Pharmacology and Therapeut
3	Absorption level interactionsDistributions of drugsTransition to tissues and distributionIon trap phenomenonDistribution kin		Veterinary Pharmacology and Therapeut
4	BiotransformationHepatic Clearance of Drugs and Changes in Liver DiseasesExcretion of drugs (kidney, liver, bile, sweat ex		Veterinary Pharmacology and Therapeut
5	EXCLUSION OF DRUGS/Excretion from kidneys, liver with bile, lungs and other excretion routes)Elimination Half-LifeRelatic		Veterinary Pharmacology and Therapeut
6	Dose-Concentration RelationshipDose-Effect and Concentration-Effect RelationshipDrug Selectivity (Selectivity)Relationship		Veterinary Pharmacology and Therapeut
7	MECHANISMS OF ACTION OF DRUGSRECEPTORS AND DRUG-RECEPTOR RELATIONSHIPTHEORIES OF DRUG RECEPTOR I		Veterinary Pharmacology and Therapeut
8	MECHANISMS THAT CHANGE THE EFFECT OF DRUGSTOLERANCE, tachyphylaxis, and insensitivityPharmacokinetic interact		Veterinary Pharmacology and Therapeut
9	Autonomic Nervous System		Farmakoloji I ders notu (B.Traş, M.Elma
10	Autonomic Nervous System		Veterinary Pharmacology and Therapeut
12	Local anesthetics		Veterinary Pharmacology and Therapeut
13	Antihistamines		Veterinary Pharmacology and Therapeut
14	Behavioral disorder drugs		Veterinary Pharmacology and Therapeut
15	Drugs acting on the central nervous system		Veterinary Pharmacology and Therapeut

Course Learning Outcomes	
No	Learning Outcomes
C01	Properties of the drugs acting body systems
C02	Doses and usage drugs in the patients animal
C03	The correct and conscious drug use
C04	The correct and conscious drug use
C05	Prescription writing with lesson topics in practise

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	12	12
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	24	24
Total Work Load			120
ECTS Credit of the Course			4

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	3	3	3	3	2	1	3	4	3	1	3	5	4	1	2	2	5
C01	5	5	3	3	3	3	2	1	3	4	3	1	3	5	4	1	2	2	5
C02	5	5	3	3	3	3	2	2	3	4	3	1	3	4	4	2	2	2	5
C03	5	5	3	3	3	3	2	1	3	4	3	1	3	5	4	1	2	2	5
C04	5	5	3	3	3	3	2	1	3	4	3	1	3	5	4	1	2	2	5
C05	5	5	3	3	3	3	2	1	3	4	3	1	3	5	4	1	2	2	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET359 GENETIC TECHNOLOGIES AND BIOINFORMATICS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET359	GENETIC TECHNOLOGIES AND BIOINFORMATICS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To introduce fundamental genetic technologies and bioinformatics tools to veterinary students; to provide skills for using biological databases, analyzing sequence data, and evaluating the role of these technologies in animal production and disease diagnosis.

Teaching Methods and Techniques:

To understand fundamental genetic technologies and global biological databases, analyze sequence data using alignment tools, and evaluate the clinical applications of omics data in veterinary medicine.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Mehmet EROĞLU

Instructors:

Associate Prof.Dr. Yalçın YAMAN

Assistants:

Recommended Sources	
Textbook	: Attwood, T. K., & Parry-Smith, D. J. Biyoformatike Giriş, Akademik Yayınlar.
Resources	: Attwood, T. K., & Parry-Smith, D. J. Introduction to Bioinformatics
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	1. Hafta: Genetik Teknolojilerine Giriş: Geçmişten günümüze moleküler genetik yöntemler.2. Hafta: Biyoformatiğin Temel		
2	12. Hafta: Omiks Teknolojilerine Giriş: Transkriptomik, proteomik ve metabolomik kavramları.13. Hafta: Hayvan Islahında E		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explain the evolutionary stages of fundamental genetic technologies and the core concepts of bioinformatics.
C02	Describe the structure of international biological databases and define molecular data search strategies within them.
C03	Analyze target DNA/RNA sequence data using multiple sequence alignment software.
C04	Examine and interpret genetic variations, mutations, and phylogenetic relationships within sequence data using computational tools.
C05	Evaluate the significance of data obtained from next-generation sequencing and omics technologies in animal breeding and veterinary clinical diagnostics.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	5	5
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	5	5
Total Work Load			66
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	3	4	5	4	5	5	4	4	4	4	3	4	4	3	4	5	4
C01	5	5	5	4	5	5	4	4	4	3	4	5	4	5	4	5	5	4	5
C02	4	4	5	4	4	5	5	5	4	5	4	5	3	4	4	4	3	4	5
C03	5	4	5	5	4	4	4	4	4	3	4	4	5	4	5	4	4	4	4
C04	4	4	4	3	5	4	5	4	4	3	4	5	3	5	5	5	5	3	5
C05	5	4	5	5	5	4	3	4	5	5	3	5	3	4	4	3	4	3	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET351 IMPORTANCE OF DRUG RESIDUES IN FOOD FOR HUMAN AND ANIMAL HEALTH					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET351	IMPORTANCE OF DRUG RESIDUES IN FOOD FOR HUMAN AND ANIMAL HEALTH	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim is to provide students with information on the causes of veterinary drug residues in food, their effects on human and animal health, national and international legal regulations, and measures to prevent residues. Furthermore, the aim is to provide an understanding of residue detection methods and the relationship between rational drug use and food safety.

Teaching Methods and Techniques:

• Introduction – The concept of drug residue, basic definitions • Use of veterinary drugs and residue formation mechanisms • Antibiotic residues and their importance • Antiparasitic drug residues • Residues related to hormones and growth factors • Residues from NSAIDs and other drug groups • Effects of drug residues on human health – Allergy, toxicity, development of resistance • Effects of drug residues on animal health and welfare • Risk assessment for food safety • Maximum residue limits (MRLs) and legal regulations – Turkey, EU, FDA, Codex Alimentarius • Residue detection methods I – Fundamentals of biological tests, ELISA, chromatography • Residue detection methods II – HPLC, LC-MS/MS, and advanced technologies • Strategies for preventing residues – Withdrawal times, rational drug use, registration systems • General assessment and case discussions – Field applications, current issues

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources	
Textbook	:
Resources	: Kayaalp SO. Rasyonel Tedavi Yönünden Tıbbi Farmakoloji (ilgili bölümler),T.C. Tarım ve Orman Bakanlığı – Veteriner İlaçları ve Kalıntı İzleme Progr
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Giriş – İlaç kalıntısı kavramı, temel tanımlar		
2	Veteriner ilaçlarının kullanımı ve kalıntı oluşum mekanizmaları		
3	Antibiyotik kalıntıları ve önemi		
4	Antiparaziter ilaç kalıntıları		
5	Hormonlar ve büyüme faktörleri ile ilgili kalıntılar		
6	NSAID ve diğer ilaç gruplarına ait kalıntılar		
7	İlaç kalıntılarının insan sağlığına etkileri – Alerji, toksisite, direnç gelişimi		
8	İlaç kalıntılarının hayvan sağlığı ve refahına etkileri		
9	Gıda güvenliği açısından risk değerlendirmesi		
10	Maksimum kalıntı limitleri (MRL) ve yasal düzenlemeler – Türkiye, AB, FDA, Codex Alimentarius		
11	Kalıntı tespit yöntemleri I – Biyolojik testler, ELISA, kromatografi temelleri		
12	Kalıntı tespit yöntemleri II – HPLC, LC-MS/MS ve ileri teknolojiler		
13	Kalıntıların önlenmesi için stratejiler – Çekilme süreleri, akılcı ilaç kullanımı, kayıt sistemleri		
14	Genel değerlendirme ve vaka tartışmaları – Saha uygulamaları, güncel sorunlar		

Recommended Optional Programme Components	
VET309 PHARMACOLOGY-I	
VET304 PHARMACOLOGY-II	
VET415 TOXICOLOGY AND ENVIRONMENTAL PROTECTION	

Course Learning Outcomes	
No	Learning Outcomes
C01	• Explains the mechanisms by which veterinary drugs leave residues in food. • Identifies and provides examples of residue types from different drug groups. • Analyzes the effects of drug residues

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	7	1	7
Assignments	7	1	7
Presentation	7	1	7
Mid-terms	1	4	4
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	7	7
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	4	5	4	5	4	4	4	4	5	5	5	5	5	4	4	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET315 ANIMAL FEEDING					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET315	ANIMAL FEEDING	4	3	4

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

Course Objective::To teach the fundamental principles, nutrient requirements, and species-specific feeding practices that should be considered in the nutrition of dairy cattle, beef cattle, sheep, goats, horses, poultry, cats, and dogs.

Teaching Methods and Techniques:

This course covers the introduction to animal nutrition, feedstuffs and nutrients, as well as the nutrient requirements and feeding practices of laying hens, broiler chickens, dairy and beef cattle, sheep, goats, horses, cats, and dogs.

Prerequisites:

Course Coordinator:

Prof.Dr. Tuncay TUFAN

Instructors:

Prof.Dr. Tuncay TUFAN

Assistants:

Research Assist. İbrahim Halil KESKİN

Recommended Sources

Textbook	:	1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yalçın, S., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.
Resources	:	1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yalçın, S., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 25
Social Sciences	:	Field	: 75

Course Content

Week	Topics	Study Materials	Materials
1	Introduction of Animal Nutrition	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
2	Nutrition of Laying Hens	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
3	Nutrition of Broilers	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
4	Nutrition of Turkeys, Ducks, Geese, Pheasants, Quails, Partridges, Pigeons	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
5	Nutrition of Dairy Cattle	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
6	Nutrition of Dairy Cattle	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
7	Nutrition of Dairy Cattle	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
8	Midterm exm.	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
9	Nutrition of Dairy Cattle	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
10	Nutrition of Beef Cattle	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
11	Nutrition of Dogs and Cats	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
12	ATLARIN BESLENMESİ	1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
13	Nutrition of Horses	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
14	Nutrition of Sheep	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
15	Nutrition of Goats	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	
16	Final exam	Course of the study subjects planned to 1. Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yıldız, G., Küçükarsan, M.K., Küçükarsan, S., Şehu, A. (2004). Hayvan Besleme ve Beslenme Hastalıkları.	

Course Learning Outcomes

No	Learning Outcomes
C01	It learns more widely to nutrition of different animal species
C02	It will have information on animal nutrition for evaluation of nutrient metabolism
C03	It learns more widely to nutrition of different animal species
C04	It knows the ways of protection and metabolic diseases induced by feeding in the animals
C05	It learns that the maximum benefit from available feed resources and determines to their nutrient and energy requirements according to their different periods of farm animals

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P11	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	7	7
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	14	14
Total Work Load			105
ECTS Credit of the Course			4

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	4	4	4	4	4	5	4	5	4	5	1	5	5	5	4	4	5
C01	5	5	5	3	2	3	2	5	2	3	1	5	5	5	5	3	5	5	4
C02	4	4	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	3
C03	3	3	3	5	4	5	4	3	5	5	5	5	5	5	3	5	5	4	3
C04	5	4	3	3	5	4	4	5	3	5	5	4	5	5	5	4	5	5	3
C05	5	4	5	4	4	4	5	2	2	2	3	5	4	4	5	5	5	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET321 INTRODUCTION TO DOMESTIC DISEASES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET321	INTRODUCTION TO DOMESTIC DISEASES	4	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to provide an easy introduction to internal medicine courses. It shows how to systematically examine animals for various diseases in domestic animals.

Teaching Methods and Techniques:

The aim of this course is to provide an easy introduction to internal medicine courses. In this course, disease and health concepts, immobilization of animals, examination of various systems, interpretation of laboratory examinations are covered.

Prerequisites:**Course Coordinator:**

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Asist Prof.Dr. kerem ercan

Assistants:

Research Assist. Mahsum BAŞAK

Recommended Sources	
Textbook	: Veteriner İç Hastalıklarında Klinik Muayene, Başoğlu A, Bahçivanlar Basım, Konya, 1998. - Veteriner İç Hastalıklarına Giriş, İmren, HY, Medisan, Anı
Resources	: Batmaz, H. (2016). Sığırların iç hastalıkları: Semptomdan tanıya, tanıdan sağaltıma (3. baskı). Özhan Matbaası. Şentürk, S. (2018). Sığırların soluğu
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	A few concepts and introduction to the diagnostic process		Hastalıklarına Giriş, İmren, HY, Medisan,
2	Methods and instruments		- Veteriner İç Hastalıklarında Klinik Muay
3	The history		- Veteriner İç Hastalıklarında Klinik Muay
4	General impression		- Veteriner İç Hastalıklarında Klinik Muay
5	Outline of the general examination and initiation of general examination		- Veteriner İç Hastalıklarında Klinik Muay
6	Restrain and preparation of farm and domestic animals		- Veteriner İç Hastalıklarında Klinik Muay
7	Examination of the respiratory system of farm and domestic animals		- Veteriner İç Hastalıklarında Klinik Muay
8	midterm exam		- Veteriner İç Hastalıklarında Klinik Muay
9	Examination of the circulatory system of farm and domestic animals		Veteriner İç Hastalıklarında Klinik Muaye
10	Examination of the digestive tract and liver of farm and domestic animals		Veteriner İç Hastalıklarında Klinik Muaye
11	Examination of skin and hair of farm and domestic animals		- Veteriner İç Hastalıklarında Klinik Muaye
12	Examination of the kidneys and urinary tract of farm and domestic animals		- Veteriner İç Hastalıklarında Klinik Muaye
13	Examination of endocrine glands of farm and domestic animals		- Veteriner İç Hastalıklarında Klinik Muaye
14	Examination of nervous system of farm and domestic animals		- Veteriner İç Hastalıklarında Klinik Muaye
15	Collection of material for the laboratory diagnosis		- Veteriner İç Hastalıklarında Klinik Muaye
16	Final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines fundamental clinical terminology related to internal medicine.
C02	Takes a systematic and complete anamnesis according to animal species.
C03	Correctly applies physical examination methods (inspection, palpation, percussion, auscultation).
C04	Measures vital signs (temperature, pulse, respiration) and compares them with reference values.
C05	Differentiates between normal and pathological clinical findings.
C06	Acquires the ability to create a differential diagnosis list based on clinical findings.
C07	Acts in accordance with animal welfare and ethical rules during clinical examination.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	12	1	12
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	14	14
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	5	1	3	4	1	3	4	4	1	5	3	4	1	1	4	4
C01	5	5	5	3	1	3	4	1	3	4	3	1	4	3	3	1	1	3	4
C02	4	4	5	4	1	3	4	1	3	3	4	1	5	3	3	1	1	4	4
C03	4	3	5	5	1	3	3	1	3	3	4	1	5	3	3	1	1	4	3
C04	4	3	5	5	1	3	3	1	3	3	3	1	5	3	3	1	1	4	4
C05	5	4	5	5	1	4	4	1	4	3	3	1	5	4	4	1	1	5	5
C06	5	5	5	4	1	4	4	2	4	4	4	2	5	4	4	1	1	4	5
C07	3	3	4	3	2	3	4	2	3	5	5	2	4	4	5	1	1	4	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET327 COMBINED FEED FOR TECHNOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET327	COMBINED FEED FOR TECHNOLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

Livestock Forage teach and production technologies used in nutrition .

Teaching Methods and Techniques:

Feed and covers issues related to production technologies.

Prerequisites:

Course Coordinator:

Instructors:

Asist.Prof.Dr. Mehmet IRMAK

Assistants:

Recommended Sources

Textbook	:
Resources	: Ergül,M. Karma yem ve karma yem teknolojisi. 1994.
Documents	:
Assignments	:
Exams	:

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 25
Social Sciences	:	Field	: 75

Course Content

Week	Topics	Study Materials	Materials
1	Structure and properties of feed mill	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	
2	Operation of feed mill technique	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	
3	Feed mill in the supply of raw materials and production	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	
4	Ensiling	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	
5	Stirring and mixing stability	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	
6	Pellet feed production	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	
7	Factors affecting physical properties of pellet	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	
8	Packaging	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	
9	Quality and control in mixed feed	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	
10	Dehomogenization of mixed feed	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	
11	The quality control in mixed feed	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	
12	Storage of raw materials	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	
13	Storage of mixed feed	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	
14	Formulation of mixed feed production	Course of the study subjects planned to Ergül,M. Karma yem ve karma yem tekn	

Course Learning Outcomes

No	Learning Outcomes
C01	Identifies raw materials used in compound feed production from a veterinary perspective and evaluates their importance in animal nutrition.
C02	Follows compound feed production technologies and current innovations in relation to veterinary practice.
C03	Analyzes the nutrient composition of feed ingredients and interprets their effects on animal health and productivity.
C04	Applies the principles of compound feed formulation appropriate for animal species, physiological status, and production purpose from a veterinary perspective.
C05	Recognizes technological processes and equipment used in compound feed production and evaluates the relationship between production quality and animal health.
C06	Identifies antinutritional factors in feed ingredients, explains their relationship with animal health and diseases, and evaluates appropriate clinical intervention and treatment approaches.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
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P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
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P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	3	4	1	3	1	5	5	5	5	1	1	1	2	4	2	1	1
C01	5	5	3	4	1	3	1	5	5	5	5	1	1	1	2	4	2	1	1
C02	5	5	2	4	1	3	1	5	5	5	5	1	1	1	2	4	2	1	1
C03	5	5	2	4	1	3	1	5	5	5	5	1	1	1	2	4	2	1	1
C04	5	5	2	4	1	3	1	5	5	5	5	1	1	1	2	4	2	1	1
C05	5	5	2	4	1	3	1	5	5	5	5	1	1	1	2	4	2	1	1
C06	5	5	5	4	1	3	1	5	5	5	5	1	1	1	2	4	2	1	1

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET347 MAJISTRAL AND OPTIONAL DRUG PREPARATION TECHNIQUES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET347	MAJISTRAL AND OPTIONAL DRUG PREPARATION TECHNIQUES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach the preparation processes of magistral (patient-specific, prepared in the pharmacy) and optional (alternative preparation methods for practical/dose adjustments) medications. Students are expected to acquire the skills to develop drug formulation, select excipients, ensure sterility and stability, comply with legal regulations, and implement medication with patient safety in mind.

Teaching Methods and Techniques:

Introduction – The concept, history, and importance of magistral and optional drugs
Legal Framework for Magistral Drug Preparation – National/International Regulations
Pharmaceutical Formulation Principles – Active ingredient, excipient, stability
Solid Magistral Preparations I – Powders, capsules
Solid Magistral Preparations II – Tablet crushing, dosage adjustment methods
Liquid Magistral Preparations I – Solutions, syrups, elixirs
Liquid Magistral Preparations II – Suspensions, emulsions
Semi-Solid Magistral Preparations – Ointments, creams, gels, pastes
Sterile Preparations I – Eye drops, sterile solutions
Sterile Preparations II – Parenteral solutions, aseptic techniques
Optional Preparation Techniques I – Pediatric dose adjustments
Optional Preparation Techniques II – Application in geriatric and special patient groups
Quality Control and Stability Tests – pH, particle size, shelf life
General Assessment and Case Studies – Preparation examples with clinical scenarios

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources	
Textbook	:
Resources	: USP (United States Pharmacopeia) ve European Pharmacopoeia rehberleri,Türkiye İlaç ve Tıbbi Cihaz Kurumu (TİTCK) Majistral İlaç Rehberi,Aulton
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Giriş – Majistral ve opsiyonel ilaç kavramı, tarihçe ve önemi		
2	Majistral İlaç Hazırlamanın Hukukî Çerçevesi – Ulusal/uluslararası düzenlemeler		
3	Farmasötik Formülasyon İlkeleri – Etkin madde, yardımcı madde, stabilite		
4	Katı Majistral Preparatlar I – Tozlar, kapsüller		
5	Katı Majistral Preparatlar II – Tablet kırma, doz ayarlama yöntemleri		
6	Sıvı Majistral Preparatlar I – Solüsyonlar, şuruplar, eliksirler		
7	Sıvı Majistral Preparatlar II – Süspansiyonlar, emülsiyonlar		
8	Yarı Katı Majistral Preparatlar – Merhemler, kremler, jeller, pastalar		
9	Steril Preparatlar I – Göz damlaları, steril solüsyonlar		
10	Steril Preparatlar II – Parenteral çözeltiler, aseptik teknikler		
11	Opsiyonel Hazırlama Teknikleri I – Pediatric doz ayarlamaları		
12	Opsiyonel Hazırlama Teknikleri II – Geriatrik ve özel hasta gruplarında uygulama		
13	Kalite Kontrol ve Stabilite Testleri – pH, partikül büyüklüğü, raf ömrü		
14	Genel Değerlendirme ve Vaka Uygulamaları – Klinik senaryolarla hazırlık örnekleri		

Recommended Optional Programme Components	
VET309 PHARMACOLOGY-I	

Course Learning Outcomes	
No	Learning Outcomes
C01	• Defines the concepts of magistral and optional drugs. • Explains national and international legal regulations. • Evaluates the selection criteria for active and excipient ingredients. • Prepares solid,

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	0	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	7	1	7
Assignment	0	%0	Assignments	7	1	7
Attendance	0	%0	Presentation	7	1	7
Practice	0	%0	Mid-terms	1	4	4
Project	0	%0	Practice	0	0	0
Final examination	0	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	7	7
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	4	5	4	5	4	5	4	4	5	5	4	5	4	5	4	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET339 MANDA CULTIVATION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET339	MANDA CULTIVATION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seğmeli

Goals:

Turkey and the World Water Buffalo Breeding and mandadan of having obtained information about products,

Teaching Methods and Techniques:

Mandate types of uses, Turkey and buffalo breeding in the world, mainly buffalo races, buffalo reproduction, feeding of buffalo, buffalo and equipment shelter

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Tuncay TUFAN

Instructors:

Asist Prof.Dr. Memiş BOLACALI

Assistants:

Recommended Sources	
Textbook	: Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH. FAO REGIONAL OFFICE FOR EUROPE INTERREGIONAL COOPERATIVE RESEARCH
Resources	: Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH. FAO REGIONAL OFFICE FOR EUROPE INTERREGIONAL COOPERATIVE RESEARCH
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 100

Course Content			
Week	Topics	Study Materials	Materials
1	The state of the world and raising buffalo in Turkey	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH
2	Some features of buffalo exterior appearance	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH
3	World and Turkey buffalo breeds	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH
4	World and Turkey buffalo breeds	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH
5	Buffalo reproduction	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH
6	Buffalo reproduction	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH
7	Buffalo cub growth	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH
8	Midterm		
9	Buffalo yield specifications	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH
10	Manda care-management	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH
11	Feeding buffalo	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH
12	Water buffalo milk and meat industry	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH
13	Buffalo products	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH
14	Protection of buffalo disease	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH
15	Protection of buffalo disease	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH	Course of the study subjects planned to Antonio Borghese, 2005. BUFFALO PRODUCTION AND RESEARCH

Course Learning Outcomes	
No	Learning Outcomes
C01	Having knowledge about the uses of buffalo buffalo breeding species in the world and Turkey
C02	Ability to recognize and know buffalo breeds
C03	Knowing the breeding and feeding of the buffalo
C04	To have information about buffalo products

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	6	6
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	1	1	1	1	1	5	1	1	1	1	1	1	1	5	1	1	1
C01	5	5	1	1	1	1	1	4	1	1	1	1	1	1	1	4	1	1	1
C02	5	4	1	1	1	1	1	5	1	1	1	1	1	1	1	5	1	1	1
C03	4	4	1	1	1	1	1	5	1	1	1	1	1	1	1	5	1	1	1
C04	5	5	1	1	1	1	1	4	1	1	1	1	1	1	1	5	1	1	1

FACULTY OF VETERINARY MEDICINE
Veterinary Medicine

Language of Instruction:
Turkish

Course Level:
Faculty

Work Placement(s):
No

Department / Program:
Veterinary Medicine

Course Type:
Seçmeli

Goals:
To teach students the English and Turkish equivalents of general terminology in related fields-to gain the ability to understand the parts of the profession

Teaching Methods and Techniques:
This course is a continuation of the vocational English IV course, which gives students the ability to teach general terminology in English and Turkish equivalents in related fields and to understand the parts of the profession.

Prerequisites:

Assistants:

Course Category		
Mathematics and Basic Sciences :	Education :	
Engineering :	Science :	
Engineering Design :	Health :	100
Social Sciences :	Field :	

Course Learning Outcomes	
No	Learning Outcomes
C01	Learning English terminology that can be encountered throughout the professional life.
C02	To gain the ability to understand medical articles at intermediate and advanced levels.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET361 MYCOLOGY AND MYCOTIC INFECTIONS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET361	MYCOLOGY AND MYCOTIC INFECTIONS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach students the biological characteristics of fungi significant in veterinary medicine and to convey the pathogenesis, clinical signs, laboratory diagnosis, and control methods of mycotic infections.

Teaching Methods and Techniques:

It covers the general structure and classification of fungi, as well as the diagnostic and therapeutic approaches for superficial, subcutaneous, and systemic mycoses and mycotoxicosis cases seen in animals.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Özgül GÜLAYDIN

Instructors:

Associate Prof.Dr. Özgül GÜLAYDIN Asist Prof. Dr. Muazzez YEŞİLYURTAsist Prof.Dr. Songül ÖTKÜN

Assistants:

Research Assist. Mustafa Berkan GÜL

Recommended Sources	
Textbook	: J. Glenn Songer, Karen W. Post: Veterinary Microbiology- Bacterial and Fungal Agents of Animal Disease Elsevier Saunders, USA, 2005. G.R.Carter,
Resources	: Arda, M. (2001):Temel Mikrobiyoloji. Medisan Yayınları.,Ankara Arda, M. Ve ark (2001): Özel Mikrobiyoloji.:Medisan Yayınları.,Ankara Euzeby J. (19
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to Mycology and General Fungal Structure		
2	Classification and Reproduction of Fungi		
3	Isolation and Identification Methods of Fungi		
4	Dermatophytosis (Ringworm) and Superficial Mycoses		
5	Yeasts: Candida, Malassezia, Cryptococcus		
6	Subcutaneous Mycoses and Agents		
7	Opportunistic Mycoses: Aspergillus and Mucor spp.		
8	Midterm Exam		
9	Dimorphic Fungi and Systemic Mycoses		
10	Mycotoxicosis and Important Mycotoxins		
11	Antifungal Drugs and Mechanisms of Action		
12	ve Gönderme Lab Diagnosis: Sampling and Transport Procedures		
13	Cultural Examination and Microscopic Evaluation		
14	Zoonotic Fungal Infections and Public Health		
15	Prevention and Control in Mycotic Infections		
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the morphological, biological characteristics and taxonomy of fungi.
C02	Defines the pathogenesis and epidemiology of major mycotic diseases.
C03	Collects mycological samples from suspected animals properly.
C04	Applies mycological culture media and direct microscopic examination methods.
C05	Differentiates mycotoxicosis cases through clinical and laboratory findings.
C06	Interprets the diagnostic results of mycotic infections within ethical rules.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	5	5
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	7	7
Total Work Load			54
ECTS Credit of the Course			2

Course Contribution To Program											
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant											
	P01	P03	P04	P06	P07	P11	P13	P15	P18	P19	
All	2	2	1	2	2	1	3	2	2	3	
C01	5	3			3						
C02	5	5		3	5		4	3			
C03		2	3	5			4		5	4	
C04			5	3			3		4	5	
C05		4			4		5	4		5	
C06						5		4	3	3	

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET323 MICROBIOLOGY-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET323	MICROBIOLOGY-II	4	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The objective of this course is to teach the morphological, cultural, and biochemical characteristics, pathogenesis, laboratory diagnosis methods, and control strategies of pathogenic bacteria and fungi significant in veterinary medicine.

Teaching Methods and Techniques:

It covers the systematic examination of specific bacterial and fungal agents causing infections in domestic animals, their virulence factors, epidemiology, and current diagnostic techniques.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. ÖZGÜL GÜLAYDIN

Instructors:

Asist Prof.Dr. Muazzez YEŞİLYURTAsist Prof.Dr. Songül ÖTKÜNAssociate Prof.Dr. ÖZGÜL GÜLAYDIN

Assistants:

Research Assist. Mustafa Berkan GÜL

Recommended Sources	
Textbook	: Aydın N, Paracıkoğlu J (2006) Veteriner Mikrobiyoloji, Ilke-Emek Yay., Ankara. 2- Carter GR (1984) Diagnostic Procedures in Veterinary Bacteriology
Resources	: Özel Mikrobiyoloji, 4. Baskı, Arda, M., Minbay, A., Leloğlu, N., Aydın, N., Kahraman, M., Akay, Ö., Ilgaz, A., İzgür, M, Diker, KS. (1997)
Documents	:
Assignments	:
Exams	:

Course Category		
Mathematics and Basic Sciences	Education	:
Engineering	Science	:
Engineering Design	Health	: 100
Social Sciences	Field	:

Course Content		
Week	Topics	Study Materials Materials
1	Introduction and Gram Positive Cocci	
2	Bacillus and Clostridium Species	
3	Listeria and Erysipelothrix	
4	Corynebacterium, Rhodococcus and Arcanobacterium	
5	Actinomyces, Nocardia and Dermatophilus	
6	Mycobacterium Species	
7	Enterobacteriaceae Family (E. coli, Salmonella etc.)	
8	MIDTERM EXAM	
9	Pseudomonas, Burkholderia and Actinobacillus	
10	Pasteurella, Mannheimia and Brucella Species	
11	Haemophilus, Taylorella and Bordetella	
12	Spirochetes (Leptospira, Brachyspira, Borrelia)	
13	Mycoplasma, Rickettsia and Chlamydia	
14	General Mycology and Dermatophytes	
15	Yeasts and Systemic Mycosis Agents	
16	FINAL EXAM	

Recommended Optional Programme Components
VET228 MICROBIOLOGY-I

Course Learning Outcomes	
No	Learning Outcomes
C01	Classifies bacterial and fungal agents causing diseases in animals taxonomically.
C02	Explains bacterial resistance mechanisms and antibiogram results.
C03	Collects clinical samples (blood, milk, swab, tissue, etc.) for microbiological analysis using correct methods to prevent contamination and ensures their transport to the laboratory.
C04	Applies isolation and identification protocols of bacterial agents from clinical samples.
C05	Works safely in the microbiology laboratory in accordance with biosafety rules and biomedical waste management procedures.
C06	Interprets disease diagnosis by correlating microbiological findings with clinical symptoms.
C07	Evaluates major bacterial and fungal zoonotic agents within the framework of public health and the "One Health" concept.
C08	Plans rational and ethical antimicrobial treatment protocols based on antibiogram results to prevent the development of resistance.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	3	3	4	4	1	3	2	3	1	5	5	4	1	3	3	5
C01	5	4	5	2	4	4	4	1	2	2	2	1	5	5	5	1	2	2	5
C02	4	4	5	5	3	5	4	1	2	2	2	1	5	5	5	1	4	5	5
C03	5	3	5	3	4	5	4	1	2	5	4	1	5	5	4	1	4	5	5
C04	5	4	5	3	3	5	5	1	3	2	3	1	5	5	4	1	3	4	5
C05	4	3	4	5	4	5	5	1	2	3	2	1	5	5	4	1	2	4	5
C06	4	5	5	3	4	3	4	1	2	1	2	1	5	5	4	1	3	5	5
C07	5	5	5	3	3	5	5	1	2	5	4	1	5	5	5	1	2	5	5
C08	5	5	5	2	2	5	3	1	2	2	1	1	5	5	4	1	2	2	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET349 MODIFIED DRUG DELIVERY SYSTEMS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET349	MODIFIED DRUG DELIVERY SYSTEMS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The goal is to teach the fundamental principles of modified release (controlled, sustained, prolonged, and targeted) drug systems. The goal is to equip students with an understanding of drug delivery technologies, the ability to select appropriate systems based on clinical needs, evaluate new drug delivery systems, and analyze them for patient safety and treatment efficacy.

Teaching Methods and Techniques:

• Introduction – Concept of drug delivery, differences between conventional and modified systems • Pharmaceutical Fundamentals – Physicochemical factors affecting release rate • Classification of Modified Release Systems • Slow/Prolonged Release Systems • Controlled Release Systems – Polymer-based carriers • Targeted Drug Delivery Systems I – Cell and tissue targeting • Targeted Drug Delivery Systems II – Nanoparticles, liposomes, microcapsules • Transdermal Systems – Patches, iontophoresis, microneedles • Mucosal and Local Delivery Systems – Eye, nasal, vaginal, rectal applications • Oral Modified Release Forms – Tablets, capsules, osmotic pump systems • Parenteral Modified Release Systems – Implants, depot injections • Next-Generation Systems I – Biodegradable polymers, hydrogels • Next-Generation Systems II – Smart drug delivery, biosensor-controlled systems • Overview – Clinical application examples, case discussions

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources	
Textbook	:
Resources	: Rathbone MJ et al. Modified-Release Drug Delivery Technology, Florence AT, Siepmann J. Modern Pharmaceutics, Robinson JR, Lee VHL. Controlled
Documents	:
Assignments	:
Exams	:

Course Category		
Mathematics and Basic Sciences	:	Education
Engineering	:	Science
Engineering Design	:	Health
Social Sciences	:	Field
		: 100

Course Content		
Week	Topics	Study Materials Materials
1	Giriş – İlaç salınım kavramı, klasik ve modifiye sistemler arasındaki fark	
2	Farmasötik Temeller – Salınım hızını etkileyen fizikokimyasal faktörler	
3	Modifiye Salınım Sistemlerinin Sınıflandırılması	
4	Yavaş / Uzatılmış Salınım Sistemleri	
5	Kontrollü Salınım Sistemleri – Polimer bazlı taşıyıcılar	
6	Hedeflendirilmiş İlaç Tasıma Sistemleri I – Hücre ve doku hedefleme	
7	Hedeflendirilmiş İlaç Tasıma Sistemleri II – Nanopartiküller, liposomlar, mikrokapsüller	
8	Transdermal Sistemler – Flasterler, iyonoforez, mikroijnerler	
9	Mukozal ve Lokal Salınım Sistemleri – Göz, burun, vajinal, rektal uygulamalar	
10	Oral Modifiye Salınım Formları – Tablet, kapsül, osmotik pump sistemleri	
11	Parenteral Modifiye Salınım Sistemleri – İmplantlar, depo enjeksiyonlar	
12	Yeni Nesil Sistemler I – Biyobozunur polimerler, hidrojeliler	
13	Yeni Nesil Sistemler II – Akıllı ilaç salınımı, biyosensör kontrollü sistemler	
14	Genel Değerlendirme – Klinik uygulama örnekleri, vaka tartışmaları	

Recommended Optional Programme Components	
VET309 PHARMACOLOGY-I	
VET304 PHARMACOLOGY-II	

Course Learning Outcomes	
No	Learning Outcomes
C01	• Defines and classifies modified drug delivery systems. • Explains the physicochemical factors affecting drug release. • Understands the design principles of controlled, slow, targeted, and next-gen

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	7	1	7
Assignments	5	1	5
Presentation	5	1	5
Mid-terms	1	6	6
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	9	9
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	4	4	4	4	4	5	4	5	4	5	3	5	3	5	3	4	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET329 ORGANIC ANIMAL FEEDING					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET329	ORGANIC ANIMAL FEEDING	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach the principles of organic animal nutrition, organic feed resources, organic livestock production regulations, and sustainable feeding practices.

Teaching Methods and Techniques:

This course covers the principles of organic livestock production, organic feed resources, organic feed production and utilization, organic livestock regulations, organic feeding practices in different animal species, and sustainable animal nutrition strategies.

Prerequisites:

Course Coordinator:

Prof.Dr. Tuncay TUFAN

Instructors:

Prof.Dr. Tuncay TUFAN

Assistants:

Recommended Sources	
Textbook	: Özgen, H. (1986). Hayvan besleme. Selçuk Üniversitesi.
Resources	: 1) Polat,E.S. (2008) Organik Hayvan Besleme Ders Notu Pond, P.g., Churh,P.D., Pond,K.R., 1997 Basic Animal Nutrition and Feeding.Jhon Wiley ar
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 25
Social Sciences	:	Field	: 75

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction of Organic Animal Nutrition	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
2	Importance of Organic Animal Nutrition	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
3	Production to organic feedstuffs - I	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
4	Production to organic feedstuffs - II	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
5	Feedstuffs that use the organic animal nutrition - I	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
6	Feedstuffs that use the organic animal nutrition - II	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
7	Organic broiler nutrition	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
8	Midterm exm.		
9	Organic laying hens nutrition	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
10	Organic nutrition for the other avians	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
11	Organic dairy cattle nutrition	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
12	Organic fattening cattle nutrition	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
13	Organic sheep and goat nutrition	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
14	Organic sheep and goat nutrition	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
15	Organic nutrition for the other ruminants	Course of the study subjects planned to 1)	Polat,E.S. (2008) Organik Hayvan Bes
16	Final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explain the basic principles of organic livestock production and organic animal nutrition.
C02	Identify feed resources used in organic production systems.
C03	Evaluate organic livestock regulations and certification requirements.
C04	Formulate organic feeding programs for different animal species.
C06	Interpret the quality characteristics and utilization of organic feeds.
C07	Analyze sustainable and environmentally friendly animal nutrition practices.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			48
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	5	4	5	5	5	3	2	3	5	5	4	4	4	4	4	4	4	1
C01	4	4	4	4	5	4	1	3	3	4	4	5	4	5	5	5	5	5	1
C02	1	5	3	4	5	5	3	3	2	5	4	5	3	3	5	4	5	5	1
C03	3	5	5	5	5	5	3	3	3	3	5	5	5	4	5	4	5	5	1
C04	5	5	3	5	5	5	3	5	5	5	5	5	5	5	5	5	5	5	1
C06	4	2	3	3	2	3	5	5	3	5	5	5	5	5	5	5	5	5	1
C07	5	5	4	5	5	5	2	5	2	5	5	5	4	5	5	5	5	5	1

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET313 PATHOLOGY-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET313	PATHOLOGY-II	4	3	4

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to teach the etiology, pathogenesis, macroscopic and microscopic findings of diseases affecting the digestive and respiratory systems in veterinary medicine and to enable students to correlate these findings with clinical data.

Teaching Methods and Techniques:

Within the scope of this course, infectious, inflammatory, degenerative, and neoplastic diseases of the digestive and respiratory systems are examined using a systematic approach. The pathogenesis, as well as the macroscopic and histopathological findings of these diseases, are evaluated.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Özgür ÖZÖNER

Instructors:

Asist Prof.Dr. Özgür ÖzönerAsist Prof.Dr. İhsan İşbilir

Assistants:

Research Assist. Betül Orhan

Recommended Sources	
Textbook	: Veterinary Systemic Pathology – Lecture Notes
Resources	: Veterinary Oncology (Erer, H., & Kıran, M. M.)
Documents	: Erer, H., Çiftçi, M. K., Ortatatlı, M., Hatipoğlu, F., & Özdemir, Ö. (2019). Veterinary systemic pathology (Vol. I). Selçuk University Press.
Assignments	: Veterinary systematic pathology I-II
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Veterinary Oncology - General information about tumors, causes and clinicopathologic effects of tumors	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
2	Veterinary Oncology ? Diagnosis and treatment principles of tumors, epithelial and mesenchymal tumors	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
3	Veterinary Oncology - Melanocytic, nervous, lymphoid and haemop. systems, and mix tumors	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
4	Alimentary system ? Pathology of oral cavity	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
5	Alimentary system ? Tonsils, pharynx, esophagus pathology	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
6	Alimentary system ? Forestomachs and stomach pathology	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
7	Alimentary system ? Small and large intestine pathology	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
8	Midterm		
9	Alimentary system ? The liver and biliary system pathology	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
10	Alimentary system ? The liver and biliary system pathology	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
11	Alimentary system ? Pancreas, peritoneum and peritoneal cavity pathology	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
12	Respiratory system ? Trachea, bronchi and bronchioli pathology	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
13	Respiratory system ? Pneumonias	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
14	Bone and joint pathology - Metabolic, degenerative, inflammatory disorders and tumors	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
15	Bone and joint pathology - Metabolic, degenerative, inflammatory disorders and tumors	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the basic concepts, etiology, and pathogenesis of digestive and respiratory system diseases.
C02	Identifies macroscopic and microscopic lesions observed in the digestive and respiratory systems.
C03	Analyzes the pathological findings associated with digestive and respiratory system diseases.
C04	Differentiates disease processes by evaluating histopathological findings.
C05	Performs differential diagnosis between inflammatory, infectious, and neoplastic lesions.
C06	Interprets pathological findings by correlating them with clinical data.
C07	Develops a systematic approach for the evaluation of digestive and respiratory system diseases.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	0	0	0
Assignment	0	%0	Assignments	0	0	0
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	1	30	30
Project	0	%0	Practice	14	2	28
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	30	30
			Total Work Load			116
			ECTS Credit of the Course			4

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	4	4	4	4	5	4	4	4	3	5	3	3	2	4	4	4
C01	4	4	5	4	4	4	4	5	4	4	4	3	4	3	3	2	4	4	4
C02	4	4	5	4	4	4	4	5	4	4	4	3	4	3	3	2	4	4	4
C03	4	4	5	4	4	4	4	5	5	4	4	3	5	3	3	1	4	4	4
C04	4	4	5	4	4	4	4	5	5	4	4	3	5	3	3	1	4	4	4
C05	4	4	5	4	4	4	4	5	5	4	4	3	5	4	3	2	4	4	4
C06	4	4	5	4	4	4	4	5	4	4	4	3	5	4	3	2	4	4	4
C07	4	4	5	4	4	4	4	5	4	5	4	3	5	4	3	2	4	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET331 PET ANIMAL BREEDING					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET331	PET ANIMAL BREEDING	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

Egzotic general characteristics of animals, care, shelter , reproduction , providing information about nutrition and behavior

Teaching Methods and Techniques:

Egzotic general characteristics of animals, care, shelter , reproduction , nutrition and behavior

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Memiş BOLACALI

Instructors:

Assistants:

Recommended Sources	
Textbook	:
Resources	: 1) POYRAZ Öznur (2000). Laboratuvar Hayvanları Bilimi. Ankara Üniversitesi Veteriner Fakültesi, Ankara. 2) KURU M (1987). Omurgalı hayvanlar Atz
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 25
Social Sciences	:	Field	: 75

Course Content			
Week	Topics	Study Materials	Materials
1	Exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	
2	The classification of exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	
3	General characteristics of cold-blooded exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	
4	Reproduction of Warm-blooded exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	
5	Shelter cage and types features of Cold-blooded exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	
6	Taking care of offspring of the Cold-blooded exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	
7	Taking care of Cold-blooded exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	
8	Midterm exam		
9	Behavior of cold-blooded Exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	
10	General characteristics of warm-blooded exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	
11	Reproduction of Warm-blooded exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	
12	Type, shelter cage and features of warm-blooded exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	
13	Taking care of Warm-blooded exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	
14	Taking care of offspring of the warm-blooded exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	
15	Behavior of warm-blooded Exotic animals	Course of the study subjects planned to 1) POYRAZ Öznur (2000). Laboratuvar t	

Course Learning Outcomes	
No	Learning Outcomes
C01	General characteristics of exotic animals Exotic animals and shelters
C02	Exotic animal care and shelters
C03	Reproduction, nutrition, and provide information on the behavior of Exotic animals

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	0,5	7
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	3	3
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	6	6
Total Work Load			30
ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	1	1	1	1	4	1	1	1	1	1	1	1	3	1	1	1	1
C01	4	5	1	1	1	1	4	1	1	1	1	1	1	1	4	1	1	1	1
C02	5	3	1	1	1	1	5	1	1	1	1	1	1	1	5	1	1	1	1
C03	4	5	1	1	1	1	4	1	1	1	1	1	1	1	4	1	1	1	1

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET311 PROTOZOOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET311	PROTOZOOLOGY	4	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of the course is to provide students with knowledge of the classification, life cycles, host relationships, and main characteristics of infections caused by protozoa of veterinary importance.

Teaching Methods and Techniques:

This course covers the taxonomic classification, morphological characteristics, developmental stages, life cycles, hosts, and veterinary importance of protozoa.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Burçak ASLAN ÇELİK

Instructors:

Associate Prof.Dr. Burçak ASLAN ÇELİK

Assistants:

Recommended Sources	
Textbook	: Levine, N. D. (1985). Veterinary protozoology.
Resources	: Morgan, B. B., & Hawkins, P. A. (1948). Veterinary protozoology.
Documents	: Dumanlı, N., & Karaer, Z. (Eds.). (2015). Veterinary protozoology. Medisan Publishing.
Assignments	: Göçmen, B. (n.d.). Protozoology: Eukaryotic microbiology. Palme Publishing.
Exams	: Dumanlı, N., & Karaer, Z. (Eds.). (2015). Veterinary protozoology. Medisan Publishing House. Göçmen, B. (n.d.). Protozoology: Eukaryotic microbiology.

Course Category	
Mathematics and Basic Sciences	:
Engineering	:
Engineering Design	:
Social Sciences	:
Education	:
Science	:
Health	: 100
Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to protozoology; definition, aim, importance and general morphological features of protozoa.		
2	Protective and supportive organelles in protozoa; physiology of movement, feeding, starvation and respiration.		
3	Secretion, excretion, reproduction, colonization, encystment, regeneration and ecology in protozoa.		
4	Development of parasitic protozoa; localization in hosts, transmission routes, immunity, diagnosis and classification.		
5	Trypanosoma and Leishmania species; morphology, biology, epidemiology, clinical signs, diagnosis, treatment and control.		
6	Giardia, Hexamita, Histomonas, Monocercomonas, Costia, Trichomonas, Tritrichomonas, Retortamonas, Chilomastix and Cc		
7	Entamoeba, Endolimax, Dientamoeba, Iodamoeba, Acanthamoeba, Hartmannella, Naegleria and Wahlkampia species.		
8	Midterm examination		
9	Eimeria, Isospora, Cystoisospora, Tyzzeria, Caryospora species and Klossiella equi.		
10	Cryptosporidium, Toxoplasma, Besnoitia and Hammondia species; clinical, pathological and epidemiological features.		
11	Sarcocystis, Frenkelia, Neospora species and Hepatozoon canis; diagnosis, treatment and control methods.		
12	Plasmodium, Haemoproteus, Leucocytozoon, Babesia and Theileria species; morphology, biology and epidemiology.		
13	Species of the family Nosematidae and Balantidium coli; clinical signs, pathology, diagnosis, treatment and control.		
14	Anaplasmosis; etiology, epidemiology, clinical signs, diagnosis, treatment and control.		
15	Ehrlichia, Eperythrozoon, Haemobartonella and Aegyptianella species; morphology, biology, epidemiology, diagnosis and ct		
16	Final examination		

Course Learning Outcomes	
No	Learning Outcomes
C01	Define the basic concepts of veterinary protozoology and the classification of protozoa.
C02	Explain the developmental stages, life cycles, and transmission routes of protozoa.
C03	Compare the basic characteristics of protozoan species of veterinary importance.
C04	Apply basic laboratory diagnostic methods used in protozoan infections.
C05	Explain host relationships and disease mechanisms of protozoa.
C06	Apply prevention and control approaches for protozoan infections.
C07	Explain veterinary protozoology knowledge using scientific terminology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	14	2	28
Project	0	0	0
Final examination	1	10	10
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	4	3	4	5	3	4	5	3	3	5	4	4	3	3	4	5
C01	5	4	4	3	3	3	4	3	3	5	4	3	4	3	3	2	3	3	4
C02	5	4	5	4	3	4	4	3	4	5	3	3	4	4	3	3	2	4	5
C03	5	3	5	4	2	4	5	3	4	5	3	3	5	4	4	3	3	4	5
C04	4	4	5	5	3	5	4	2	3	5	3	3	5	4	4	3	3	5	5
C05	4	3	5	4	3	5	5	3	4	4	3	3	5	5	5	3	3	5	5
C06	4	4	5	3	4	5	5	3	5	4	3	3	4	5	5	4	3	4	5
C07	5	5	4	3	3	4	4	3	3	5	4	2	4	3	4	3	3	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET319 RADIOLOGICAL					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET319	RADIOLOGICAL	1	1	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to provide students with knowledge and skills in radiation physics, imaging techniques, radiological safety, radiographic interpretation, and diagnostic imaging methods in line with the fundamental principles of veterinary radiology.

Teaching Methods and Techniques:

This course content includes radiation physics, radiographic equipment, radiological safety principles, image formation, contrast radiography techniques, ultrasonography, and basic diagnostic imaging methods. In addition, it aims to improve students' abilities in evaluating radiographic images and making clinical interpretations.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Banş AKGÜL

Instructors:

Prof.Dr. Nihat ŞINDAKAssociate Prof.Dr. Mustafa Banş AKGÜLAsist Prof.Dr. Onur YILDIRIMAsist Prof.Dr. Kadir SULUAssociate Prof.Dr. Ali GÜLAYDINProf.Dr. Mehmet SAĞLAM

Assistants:

Research Assist. Bahar ERDENResearch Assist. Maruf YILMAZ Research Assist. Sevdet KILIÇ

Recommended Sources

Textbook	:	Morgan, J. P., & Wolvekamp, P. (2004). Atlas of radiology of the traumatized dog and cat: The case-based approach (2nd ed.). Schlütersche.
Resources	:	Morgan, J. P., Doval, J., & Samii, V. (1998). Radiographic techniques: The dog. Schlütersche.
Documents	:	Riedesel, E. A., & Brawner, W. R. (2002). Abdominal radiology for the small animal practitioner. Teton NewMedia
Assignments	:	1) Alkan Z., "Veterinary Radiology" Ankara, 1999. 2) Arıcan M., "Veterinary General Radiology and Diagnostic Radiography Atlas for Cats and Dogs"
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction to veterinary radiology and basic terminology		
2	Radiation physics and X-ray production		
3	Radiographic equipment and imaging systems		
4	Radiological safety and protection methods		
5	Radiographic image formation and image quality		
6	Radiographic positioning techniques		
7	Contrast radiography techniques and applications		
8	MIDTERM EXAM		
9	Thoracic radiology		
10	Abdominal radiology		
11	Musculoskeletal system radiology		
12	Introduction to ultrasonography and basic principles		
13	Ultrasonographic evaluations in veterinary medicine		
14	Advanced imaging methods (CT and MRI)		
15	Clinical radiological case evaluations		
16	END OF SEMESTER EXAM		

Recommended Optional Programme Components

VET319 RADIOLOGICAL

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the basic terminology, radiation physics, and image formation principles used in veterinary radiology.
C02	Compares advanced imaging methods used in veterinary medicine discusses their areas of application.
C03	Uses radiographic devices, imaging equipment, and radiological positioning techniques appropriately.
C04	Analyzes thoracic, abdominal, and musculoskeletal radiographs and interprets them clinically.
C05	Plans and evaluates contrast radiography and ultrasonography applications for diagnostic purposes.
C06	Evaluates radiological safety rules and applies radiation protection methods.
C07	Acts in accordance with ethical rules, patient safety, and professional responsibilities during radiological examinations.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	5	5	5	3	4	4	4	4	3	5	5	5	3	3	2	4	5	5
C01	4	5	4	4	3	4	3	3	3	2	4	3	4	2	2	2	3	3	4
C02	3	4	5	5	3	4	4	4	4	3	4	5	5	3	3	2	4	5	4
C03	3	4	4	4	3	4	4	4	4	3	5	4	4	3	3	2	4	4	4
C04	4	4	5	5	3	5	5	4	5	3	4	5	5	3	3	2	5	5	5
C05	3	4	5	5	3	4	4	4	4	3	4	5	5	3	3	2	4	5	5
C06	4	4	4	4	3	4	3	4	3	3	4	4	4	3	4	2	4	4	4
C07	4	4	4	3	3	3	3	4	3	4	5	3	4	4	4	2	3	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET353 DISINFECTION IN RUMINANT FARMS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET353	DISINFECTION IN RUMINANT FARMS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The goal is to provide students with knowledge of disinfection methods, disinfectant groups, mechanisms of action, application strategies, and their importance for biosecurity in ruminant farms. The goal is to enable students to plan appropriate disinfection practices for hygiene management, outbreak control, and food safety.

Teaching Methods and Techniques:

• The importance of disinfection in ruminant farms • Sources of microbial contamination • Classification of disinfectants and their mechanisms of action • Physical, chemical, and biological disinfection methods • Biosecurity measures at the farm level • Barn, equipment, water, and feed hygiene • Environmental sustainability and ecotoxic effects of disinfectants • National and international legislation

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources

Textbook	:	
Resources	:	FAO & OIE Farm Biosecurity Guidelines,Block SS. Disinfection, Sterilization, and Preservation,McDonnell G, Russell AD. Antiseptics and Disinfectants
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:		Education	:	
Engineering	:		Science	:	
Engineering Design	:		Health	:	100
Social Sciences	:		Field	:	

Course Content

Week	Topics	Study Materials	Materials
1	Giriş – Ruminant işletmelerinde hijyen ve dezenfeksiyonun önemi		
2	Bulaşıcı hastalıkların yayılma yolları ve çevresel kontaminasyon		
3	Dezenfeksiyonun temel prensipleri – Temizlik vs. dezenfeksiyon		
4	Fiziksel dezenfeksiyon yöntemleri – Isı, ışık, radyasyon		
5	Kimyasal dezenfektanlar I – Klor, iyot, aldehytler		
6	Kimyasal dezenfektanlar II – Kuaterner amonyum bileşikleri, fenoller, peroksitler		
7	Biyolojik ve doğal dezenfektanlar – Probiyotikler, bitkisel ürünler		
8	Ahir ve ekipman dezenfeksiyonu – Uygulama örnekleri		
9	Su ve yem dezenfeksiyonu – Metodlar ve kritik kontrol noktaları		
10	Hayvan temas yüzeyleri ve çevre dezenfeksiyonu		
11	Biyogüvenlik protokolleri – Karantina, giriş-çıkış kontrolü, ziyaretçi hijyeni		
12	Dezenfektan direnci ve yanlış kullanımın sonuçları		
13	Çevresel etkiler ve sürdürülebilir dezenfeksiyon stratejileri		
14	Genel değerlendirme ve vaka analizleri – Salgın yönetiminde dezenfeksiyon planı		

Recommended Optional Programme Components

VET304 PHARMACOLOGY-II

VET415 TOXICOLOGY AND ENVIRONMENTAL PROTECTION

Course Learning Outcomes

No	Learning Outcomes
C01	• Explains the importance of disinfection in ruminant farms and its place in biosecurity. • Analyzes the sources and routes of microbial contamination. • Classifies disinfectants, learns their mechanisms

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	8	1	8
Assignment	0	%0	Assignments	2	1	2
Attendance	0	%0	Presentation	2	1	2
Practice	0	%0	Mid-terms	1	5	5
Project	0	%0	Practice	1	5	5
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	10	10
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	4	3	3	3	4	4	4	5	5	5	4	4	3	3	3	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET363 Digestion of nutrients and rumen microbiology in ruminants and monogastrics					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET363	Digestion of nutrients and rumen microbiology in ruminants and monogas	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach the digestion mechanisms of nutrients in ruminants and monogastric animals and to explain the importance of rumen microbiology in animal nutrition.

Teaching Methods and Techniques:

Covers the digestion of nutrients in ruminants and monogastric animals and the basic principles of rumen microbiology.

Prerequisites:

Course Coordinator:

Instructors:

Prof.Dr. Tuncay TUFAN

Assistants:

Recommended Sources	
Textbook	: Özel, O., & Sarıççek, B. (2009). Ruminantlarda rumen mikroorganizmalarının varlığı ve önemi (derleme). TÜBAV Bilim Dergisi, 2(3), 277-285.
Resources	: Özel, O., & Sarıççek, B. (2009). Ruminantlarda rumen mikroorganizmalarının varlığı ve önemi (derleme). TÜBAV Bilim Dergisi, 2(3), 277-285.
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 100

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to digestive physiology		
2	Digestive system anatomy in ruminants		
3	Digestive system anatomy in monogastric animals		
4	Digestion of carbohydrates		
5	Digestion of proteins		
6	Digestion of lipids		
7	Digestion and absorption of vitamins and minerals		
8	midterm exam		
9	Structure and functions of the rumen		
10	Rumen microorganisms		
11	Volatile fatty acids and metabolism		
12	Microbial protein synthesis		
13	Factors affecting digestion		
14	Rumen disorders and nutritional relationships		
15	Importance of digestive physiology in animal nutrition		
16	final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the structure of the digestive system in ruminants and monogastric animals.
C02	Analyzes the digestion mechanisms of nutrients.
C03	Identifies the functions of rumen microorganisms.
C04	Evaluates rumen fermentation processes
C05	Interprets the importance of digestive physiology in animal nutrition.
C06	Explains nutritional problems related to the digestive system and rumen microbiology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			48
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
C01	3	4	4	5	4	5	3	3	4	4	5	3	4	4	4	5	5	3	3
C02	3	3	3	3	3		3	4	5	5	4	3	5	5	4	4	4		4
C03	5	4	5	5	5	5	5	3	4	4	4	3	3	3	3	3	4		4
C04	4	5	4	4	4	3	3	4	4	3	3	3	3	5	4	3	3	4	5
C05	4	4	4	5	4	3	4	4	5	5	4	5	5	4	5	5	5	5	4
C06	5	5	5	5	5	5	5	5	3	3	3	3	5	4	4	4	5	3	3

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		%0

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			0
ECTS Credit of the Course			0

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant



Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET343 ULTRASOUND					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET343	ULTRASOUND	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The objective of this course is to teach the working principles of ultrasonography equipment used in veterinary surgery, the normal and pathological sonographic appearances of abdominal and thoracic organs, and diagnostic interpretation techniques.

Teaching Methods and Techniques:

This course covers the physical principles of ultrasonography, device and probe characteristics, image formation, artifacts, patient preparation, scanning techniques, and basic ultrasonographic anatomy. The diagnostic use of ultrasonography in small and large animals for the evaluation of the abdomen, urogenital system, thorax, musculoskeletal system, eye, superficial tissues, and pregnancy is addressed within the framework of distinguishing normal and pathological findings, reporting principles, patient safety, animal welfare, and professional ethics.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Barış AKGÜL

Instructors:

Associate Prof.Dr. Mustafa Barış AKGÜL Prof.Dr. Mehmet SAĞLAM Associate Prof.Dr. Ali GÜLAYDIN Assist Prof.Dr. Kadir SULU Prof.Dr. Nihat ŞINDAK

Assistants:

Research Assist. Sevdet KILIÇ Research Assist. Maruf YILMAZ Research Assist. Bahar ERDEN

Recommended Sources	
Textbook	: Mattoon, J. S., & Nyland, T. G. (2015). Small Animal Diagnostic Ultrasound. Saunders.
Resources	: Penninck, D., & d'Anjou, M. A. (2015). Atlas of Small Animal Ultrasonography. Wiley-Blackwell.
Documents	: Mannon, P. (2006). Diagnostic Ultrasound in Small Animal Practice. Blackwell.
Assignments	: Mattoon, J. S., & Nyland, T. G. (2015). Small Animal Diagnostic Ultrasound. Saunders. Penninck, D., & d'Anjou, M. A. (2015). Atlas of Small Animal
Exams	: Mattoon, J. S., & Nyland, T. G. (2015). Small Animal Diagnostic Ultrasound. Saunders. Penninck, D., & d'Anjou, M. A. (2015). Atlas of Small Anima

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Physics of ultrasonography and basic concepts		
2	Device settings (Knobology) and probe types		
3	Ultrasonographic artifacts and terminology		
4	Patient preparation and scanning techniques		
5	Ultrasonography of liver and biliary tract		
6	Evaluation of spleen and pancreas		
7	Examination of the gastrointestinal system		
8	Midterm Exam		
9	Ultrasonography of the urinary system (Kidneys, bladder)		
10	Adrenal glands and lymph nodes		
11	Ultrasonography of male and female genital systems		
12	Pregnancy diagnosis and fetal monitoring		
13	Thoracic ultrasonography (Excluding echocardiography)		
14	Musculoskeletal system and soft tissue scanning		
15	Interventional ultrasonography (Biopsy, aspiration)		
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the physical principles of ultrasonography and image formation mechanisms.
C02	Explains the normal echogenicities and anatomical relationships of abdominal organs.
C03	Selects appropriate probe and device settings to optimize image quality.
C04	Plans the preliminary diagnosis of diseases by combining sonographic findings with clinical data.
C05	Follows technological innovations in the field of imaging within the professional ethical framework.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
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P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	4	4	5	4	3	4	5	4	4	4	5	4	2	4	4	4
C01	5	4	4	4	4	4	3	3	4	5	4	4	4	4	3	2	4	4	4
C02	4	4	5	5	4	5	4	3	4	5	4	4	4	4	2	4	5	5	5
C03	4	4	5	4	4	5	4	3	5	5	5	5	4	5	4	4	4	4	4
C04	4	5	5	4	4	5	4	4	5	5	5	5	5	5	4	3	4	5	4
C05	4	5	4	4	5	4	4	4	4	4	5	4	5	5	5	3	4	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET307 VIROLOGY-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
5	VET307	VIROLOGY-II	4	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to provide students with advanced knowledge about the etiology, pathogenesis, epidemiology, diagnostic methods, prevention, and control strategies of viral diseases important in veterinary medicine.

Teaching Methods and Techniques:

This course covers diseases caused by important RNA and DNA viruses in veterinary medicine, including their clinical findings, pathogenesis, laboratory diagnostic methods, epidemiological characteristics, prevention, and control measures.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. AYFER FINDIK

Instructors:

Assistants:

Research Assist. Erdal Polat

Recommended Sources	
Textbook	: ÖZEL VİROLOJİ (Prof.Dr.İbrahim BURGU-Prof.Dr.Yılmaz AKÇA) Veterinary Virology (Murphy F.A., Gibbs E.P.J., Horzinek M.C., Studdert M.J. 1999)
Resources	: Virology-Prof.Dr.Kadir Yeşilbağ, Prof.Dr.Mehmet Çabalar
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to special virology and general characteristics of important viruses in veterinary medicine	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
2	Orthomyxoviridae, Paramyxoviridae, and Coronaviridae infections	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
3	Herpesviridae and Poxviridae infections	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
4	Adenoviridae, Circoviridae, and Parvoviridae infections	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
5	Retroviridae and Arboviral infections	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
6	Rhabdoviridae, Reoviridae, and Birnaviridae infections	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
7	Pestivirus, Flavivirus, and Togavirus infections	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
8	midterm exam		
9	Important viral infections of small ruminants	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
10	Important viral infections of cattle	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
11	Important viral infections of poultry	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
12	Important viral infections of horses, cats, and dogs	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
13	Viral zoonoses and their importance in public health	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
14	Laboratory diagnostic methods in veterinary virology	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
15	Prevention, vaccination, and biosafety practices in viral diseases	Research on the lesson.	OZEL VİROLOJİ (Prof.Dr.İbrahim BURGL
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the classification, structural characteristics, and replication mechanisms of viruses important in veterinary medicine.
C02	Interprets the pathogenesis, clinical findings, and epidemiological characteristics of important viral diseases observed in animals.
C03	Applies laboratory diagnostic methods used in veterinary virology and evaluates the obtained findings.
C04	Analyzes prevention, biosafety, and vaccination practices against viral diseases.
C05	Evaluates the importance of zoonotic viral infections in terms of animal and public health.
C06	Follows current scientific developments in veterinary virology and relates them to professional practices.
C07	Develops scientific and ethical solution proposals for the control and prevention of viral diseases.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	15	4	60
Hours for off-the-c.r.stud	9	2	18
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	6	6
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	6	6
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	5	5	4	3	5	5	3	3	4	5	2	5	5	5	3	4	5	5
C01	5	4	5	3	2	4	4	2	2	3	3	2	4	3	3	2	3	3	4
C02	4	4	5	3	2	4	5	3	3	3	3	2	5	4	4	2	3	4	4
C03	3	4	5	5	3	5	5	3	3	4	3	2	5	5	4	3	5	5	5
C04	3	3	4	4	3	5	5	3	3	4	4	2	5	5	5	3	4	5	5
C05	4	4	5	3	4	5	5	3	3	4	5	2	4	5	5	3	3	4	4
C06	4	5	4	3	3	4	4	3	3	5	5	2	4	4	4	3	3	4	4
C07	4	4	5	3	3	5	5	3	3	4	5	2	5	5	5	4	4	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET360 USE OF ANTIDEPRESSANT DRUGS IN THE VETERINARY FIELD					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET360	USE OF ANTIDEPRESSANT DRUGS IN THE VETERINARY FIELD	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The goal is to provide information on the recognition of behavioral disorders in animals and the pharmacological properties, indications, side effects, and field applications of antidepressant medications used in their treatment. Students will also learn about the ethical use of antidepressant medications, food safety, legal regulations, and the mental health aspects of human-animal interactions.

Teaching Methods and Techniques:

• Introduction to animal behavior disorders and psychopharmacology • Classification and mechanisms of action of antidepressant drugs • Tricyclic antidepressants (TCAs) • Selective serotonin reuptake inhibitors (SSRIs) • Monoamine oxidase inhibitors (MAOIs) • Other antidepressant groups (SNRIs, atypical agents, etc.) • Veterinary uses (anxiety, aggression, obsessive-compulsive behavior, separation anxiety, stereotypies) • Clinical case discussions • Side effects and drug interactions • Legal regulations and ethical aspects • Human-animal interactions and their importance for welfare

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources	
Textbook	:
Resources	: Landsberg GM, Hunthausen W, Ackerman L. Behavior Problems of the Dog and Cat,Overall KL. Manual of Clinical Behavioral Medicine for Dogs and
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Giriş – Veteriner davranış bozukluklarına genel bakış		
2	Psikofarmakolojinin temelleri – Nörotransmitterler ve reseptörler		
3	Antidepresan ilaçların sınıflandırılması ve etki mekanizmaları		
4	Trisiklik antidepresanlar (TCA) – Amitriptilin, klomipramin		
5	Seçici serotonin geri alım inhibitörleri (SSRI) – Fluoksetin, sertraline, paroksetin		
6	Monoamin oksidaz inhibitörleri (MAOI) – Selegilin ve kullanımı		
7	SNRI ve atipik antidepresanlar – Venlafaksin, trazodon vb.		
8	Köpeklerde davranış bozuklukları ve antidepresan kullanımı – Ayrılma anksiyetesi, asırı havlama, agresyon		
9	Kedilerde davranış bozuklukları ve antidepresan kullanımı – Uygunsuz idrar yapma, obsesif yalanma, anksiyete		
10	Atlarda ve egzotik hayvanlarda davranış sorunları ve ilaç tedavisi		
11	Yan etkiler, ilaç etkileşimleri ve saha uygulama zorlukları		
12	Kombine tedaviler – İlaç + davranış terapisi		
13	Etik, yasal düzenlemeler ve gıda güvenliği		
14	Genel değerlendirme ve vaka analizleri – Öğrenci sunumları		

Recommended Optional Programme Components	
VET309 PHARMACOLOGY-I	

Course Learning Outcomes	
No	Learning Outcomes
C01	• Describe behavioral disorders observed in animals. • Explain the classification and mechanisms of action of antidepressant drugs. • Identify and compare tricyclic antidepressants, SSRIs, MAOIs, a

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET358 ANTINEOPLASTIC AGENTS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET358	ANTINEOPLASTIC AGENTS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim is to teach the mechanisms of action, pharmacokinetic properties, indications, side effects, and usage protocols of antineoplastic agents (used in cancer treatment). The aim is also to equip students with knowledge of drug selection, combination therapies, toxicity management, and ethical issues in animal cancer treatment.

Teaching Methods and Techniques:

• Introduction to neoplasia and chemotherapy • Classification of antineoplastic agents • Alkylating agents • Antimetabolites • Plant-derived antitumor drugs • Antibiotic-derived antineoplastics • Platinum compounds • Hormones and antihormones • Biological agents and immunotherapy • Combination therapies and protocols • Side effects and toxicity management of antineoplastic agents • Current treatment approaches used in veterinary oncology • Ethics, food safety, and legal regulations

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources

Textbook	:	
Resources	:	Withrow SJ, Vail DM, Page R. Withrow and MacEwen's Small Animal Clinical Oncology, Plumb DC. Plumb's Veterinary Drug Handbook, Szot RJ, Haye
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:		Education	:	
Engineering	:		Science	:	
Engineering Design	:		Health	:	100
Social Sciences	:		Field	:	

Course Content

Week	Topics	Study Materials	Materials
1	Giriş – Kanser biyolojisine temel bakış, veteriner onkolojide kemoterapinin yeri		
2	Antineoplastik ajanların genel özellikleri – Farmakokinetik, farmakodinamik temeller		
3	Alkileyici ajanlar I – Siklofosamid, ifosfamid, klorambusil		
4	Alkileyici ajanlar II – Nitrosüreler, diğer türevler		
5	Antimetabolitler I – Metotreksat, 5-fluorourasil, sitarabin		
6	Antimetabolitler II – Gemcitabin, purin/pirimidin analogları		
7	Antibiyotik kökenli antineoplastikler – Doksorubisin, bleomisin, mitomisin		
8	Bitkisel kökenli antitümör ilaçlar – Vinka alkaloidleri, taksanlar		
9	Platin bileşikler – Sisplatin, karboplatin, oksaliplatin		
10	Hormonlar ve antihormonlar – Glukokortikoidler, östrojen/progesteron antagonistleri		
11	Immunoterapiler ve biyolojik ajanlar – Monoklonal antikorlar, sitokinler		
12	Kombinasyon tedavileri ve protokoller – CHOP, COP, diğer protokoller		
13	Toksite yönetimi ve yan etkilerin azaltılması – Miyelosupresyon, GIS yan etkiler, nefro/ hepatotoksite		
14	Etik, gıda güvenliği ve güncel gelişmeler – Hayvan refahı, kalıntı sorunları, onkolojiye yeni yaklaşımlar		

Recommended Optional Programme Components

VET309 PHARMACOLOGY-I

VET304 PHARMACOLOGY-II

Course Learning Outcomes

No	Learning Outcomes
C01	• Explains the basic principles of chemotherapy in cancer biology and veterinary oncology. • Classifies antineoplastic agents and describes their mechanisms of action. • Explains the use of different

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET338 FISH BREEDING					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET338	FISH BREEDING	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

Understand the importance of fish farming , fish culture to say matters to be considered in site selection , seed production , description of the care and feeding method.

Teaching Methods and Techniques:

Ecological characteristics of fish grown in the area , intensive and extensive fish farming , seed production , maintenance and feeding techniques

Prerequisites:

Course Coordinator:

Prof.Dr. NİHAT ŞİNDAK

Instructors:

Assistants:

Recommended Sources	
Textbook	: Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği. Nobel Yayın Dağıtım, Ankara
Resources	: Alpbaz, A. 2005. Su Ürünleri Yetiştiriciliği. İkinci Baskı, Alp Yayınları, Bornova-İzmir.
Documents	: Tekelioğlu, N. 2005. İç Su Balıkları Yetiştiriciliği, Nobel Kitabevi, Adana. ,Tekelioğlu, N. 1998. Deniz Balıkları Yetiştiriciliği. Baki Kitabevi, Adana.,Atay
Assignments	:
Exams	:

Course Category		
Mathematics and Basic Sciences	:	Education
Engineering	:	Science
Engineering Design	:	Health
Social Sciences	:	Field
		: 100

Course Content			
Week	Topics	Study Materials	Materials
1	Aquaculture in the world and Turkey	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği
2	Alan İnceleme	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği
3	Alabalık Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği
4	Alabalık Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği
5	Sazan Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği
6	Sazan Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği
7	Tilapia Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği
8	midterm		
9	Yayın Balığı Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği
10	Ara Sınav	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği
11	Sudak, Mersin Balığı Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği
12	Teknik Gezi	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği
13	Turna, Kadife Balığı Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği
14	Canlı Balık Nakli	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği
15	Balık Sağlığı	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği	Course of the study subjects planned to 1) Çağıltay, F. 2007. İçsu Balıkları Yetiştiriciliği

Course Learning Outcomes	
No	Learning Outcomes
C01	Explain the importance of fish farming , fish production site features explanations sought .
C02	Explain the growing economic importance of different fish species .
C03	The causes of fish diseases , symptoms and ways of protection description .

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			30
ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	3	2	2	2	2	4	2	4	4	2	2	2	2	3	2	2	2
C01	4	5	3	2	3	2	2	3	2	5	4	2	2	2	3	2	3	2	2
C02	5	4	4	2	2	2	2	4	1	4	5	3	2	2	2	3	2	2	2
C03	5	5	3	2	2	2	2	4	2	4	4	2	2	2	3	3	2	2	2

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET354 MEDICINE USE IN FISH					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET354	MEDICINE USE IN FISH	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim is to provide students with knowledge of the pharmacokinetic properties, administration routes, treatment strategies, and environmental/food safety aspects of drug use in fish. Furthermore, the aim is to develop competence in drug selection, correct dosing, prevention of drug residues, and rational drug use in fish diseases.

Teaching Methods and Techniques:

• Importance of drug use in fish • Effect of fish physiology on drug administration • Antibacterial, antiparasitic, and antifungal drugs • Anesthetics and sedatives • Drug administration routes: water addition, feeding, injection • Drug residues and food safety • Environmental impacts and sustainability • National/international legislation

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources	
Textbook	:
Resources	: Noga EJ. Fish Disease: Diagnosis and Treatment, Stoskopf MK. Fish Medicine, Alderman DJ, Hastings TS. Antibiotic Use in Aquaculture, Plumb JA. He
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Giriş – Balıklarda ilaç kullanımının önemi, temel kavramlar		
2	Balık anatomisi ve fizyolojisinin ilaç kinetiğine etkisi		
3	İlaç uygulama yolları I – Suya katma (immersion) yöntemi		
4	İlaç uygulama yolları II – Yem ile ilaç uygulaması		
5	İlaç uygulama yolları III – Enjeksiyonla ilaç uygulamaları		
6	Antibakteriyel ilaçlar – Mekanizmalar, endikasyonlar, çekilme süreleri		
7	Antiparaziter ilaçlar – Kullanım alanları, sahadaki örnekler		
8	Antifungal ilaçlar ve antiseptikler		
9	Balıklarda anestezi ve sedatifler – Trikaïn (MS-222), karanfil yağı vb.		
10	Balıklarda farmakokinetik özellikler – Emilim, dağılım, metabolizma, atılım		
11	İlaç kalıntılar ve gıda güvenliği – MRL, çekilme süreleri		
12	Cevresel etkiler – Su ekosistemine ilaç yayılımı, direnç gelişimi		
13	Ulusal ve uluslararası mevzuat – AB, FDA, FAO, Türkiye'deki düzenlemeler		
14	Genel değerlendirme ve vaka tartışmaları – Balık hastalıklarında ilaç seçimi		

Recommended Optional Programme Components	
VET309 PHARMACOLOGY-I	
VET304 PHARMACOLOGY-II	
VET415 TOXICOLOGY AND ENVIRONMENTAL PROTECTION	

Course Learning Outcomes	
No	Learning Outcomes
C01	• Explain the importance and basic principles of drug use in fish. • Analyze the effects of fish physiology on drug pharmacokinetics. • Learn different administration routes such as adding to water, etc.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	11	1	11
Assignment	0	%0	Assignments	3	1	3
Attendance	0	%0	Presentation	3	1	3
Practice	0	%0	Mid-terms	1	5	5
Project	0	%0	Practice	0	0	0
Final examination	1	%60	Laboratory	0	0	0
Total		100	Project	0	0	0
			Final examination	1	10	10
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	5	5	5	5	5	4	5	5	4	5	4	5	4	5	4	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET314 NUTRITIONAL DISORDERS AND METABOLIC DISEASES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET314	NUTRITIONAL DISORDERS AND METABOLIC DISEASES	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

-Teaching of nutritional disorders and metabolic diseases encountered in farm animals. -Teaching of mechanism of diseases resulting from carbohydrate, protein, vitamin and mineral metabolism in farm animal.

Teaching Methods and Techniques:

Ruminants , include disorders that may occur depending on the feeding of poultry and horses.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Memiş BOLACALI

Instructors:

Assistants:

Recommended Sources	
Textbook	:
Resources	: Çiftlik Hayvanlarında Beslenme Hastalıkları (Umucalılar HD, Gülşen N) Bovine Medicine, Disease and Husbandry of Cattle (Andrews AH, Blowey RW,
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 50
Social Sciences	:	Field	: 50

Course Content			
Week	Topics	Study Materials	Materials
1	Nutritional disorders and metabolic diseases of Ruminants	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	
2	Nutritional disorders and metabolic diseases of Ruminants	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	
3	Nutritional disorders and metabolic diseases of Ruminants	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	
4	Nutritional disorders and metabolic diseases of Ruminants	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	
5	Nutritional disorders and metabolic diseases of Ruminants	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	
6	Nutritional disorders and metabolic diseases of Ruminants	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	
7	Nutritional disorders and metabolic diseases of Ruminants	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	
8	Midterm exm.		
9	Nutritional disorders and metabolic diseases of Ruminants	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	
10	Nutritional disorders and metabolic diseases of Poultry	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	
11	Nutritional disorders and metabolic diseases of Poultry	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	
12	Nutritional disorders and metabolic diseases of Poultry	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	
13	Nutritional disorders and metabolic diseases of Poultry	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	
14	Nutritional disorders and metabolic diseases of Horse	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	
15	Atlarda beslemeye bağlı olarak oluşabilecek bozukluklar	Course of the study subjects planned to Çiftlik Hayvanlarında Beslenme Hastalıkları	

Course Learning Outcomes	
No	Learning Outcomes
C01	The occurrence mechanisms and prevention methods of carbohydrate metabolism disorders are thought
C02	The occurrence mechanisms and prevention methods of protein metabolism disorders are thought
C03	The occurrence mechanisms and prevention methods of vitamin and mineral metabolism disorders are thought
C05	In horses, learns the metabolism of carbohydrates, proteins, vitamins, and minerals, feeding-related nutritional physiology, and the mechanisms of metabolic diseases caused by nutritional errors, a
C06	In poultry, learns the metabolism of carbohydrates, proteins, vitamins, and minerals, feeding physiology related to ration formulation, and the mechanisms of metabolic and production diseases cau
C07	In cats and dogs, learns the metabolism of carbohydrates, proteins, vitamins, and minerals, feeding physiology related to ration planning, and the mechanisms of metabolic diseases caused by nutr

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows; located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	7	7
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	9	9
Total Work Load			30
ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	3	2	3	2	5	5	5	5	1	4	2	1	4	1	3	3
C01	4	5	5	4	2	2	2	4	3	4	5	1	4	2	1	3	1	3	3
C02	5	4	5	3	2	2	2	5	4	5	5	1	4	2	1	3	1	3	3
C03	5	5	5	4	2	2	1	5	5	5	5	1	4	2	1	4	1	3	3
C05	5	5	5	3	2	3	2	5	5	5	5	1	4	2		3	1	3	3
C06	5	5	4	3	2	3	2	5	5	5	5	1	4	2		4	1	3	3
C07	5	4	5	3	2	3	2	5	5	5	5	1	4	2		4	1	3	3

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET326 Surgical-					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET326	Surgical-	3	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to provide students with the ability to recognize, evaluate, analyze, and plan appropriate surgical approaches for surgical diseases of the head-neck, digestive, urinary, and respiratory systems in veterinary medicine.

Teaching Methods and Techniques:

This course covers the etiopathogenesis, clinical findings, diagnostic methods, and surgical treatment approaches of surgical diseases related to the head-neck, cranium, ear, salivary glands, esophagus, stomach, intestines, perineum, abdominal cavity, umbilical region, urinary, and respiratory systems.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Banş AKGÜL

Instructors:

Asist Prof.Dr. Kadir SULLU

Assistants:

Research Assist. Maruf YILMAZ

Recommended Sources

Textbook	: Aslanbey, D., & Candaş, A. (1987). Veterinary special operations.
Resources	: Görgül, O. S., Yavru, N., Atalan, G., Bilgili, H., Demirkan, İ., Kılıç, N., Sarıerler, M., Taş, A., Altuğ, M. E., Çeçen, G., Kibar, M., Pekcan, Z., Salcı, H.,
Documents	: Fossum, T. W. (2013). Small Animal Surgery (4th ed.). Ankara: Medipres.
Assignments	: Tobias, K. M., & Johnston, S. A. (2012). Veterinary surgery: Small animal (Vol. 1). St. Louis, MO: Elsevier Saunders. Tobias, K. M., & Johnston, S. A.
Exams	:

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Head and neck surgical diseases I (nerve paralysis, myositis, infections)		
2	Head and neck surgical diseases II (sinus, horn, guttural pouch, nasal disorders)		
3	Cranium surgery (traumatic brain injury, hydrocephalus)		
4	Ear surgery		
5	Salivary gland surgery		
6	Esophageal surgery		
7	Gastric surgery		
8	Midterm Exam		
9	Intestinal surgery		
10	Perineum, rectum, and anus surgery		
11	Abdominal cavity surgery		
12	Umbilical region lesions		
13	Urinary system surgery I (upper and lower urinary tract)		
14	Urinary system surgery II (genital organs and related pathologies)		
15	Respiratory system and liver-spleen surgery		
16	Final Exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the anatomical, pathological, and clinical knowledge related to head-neck region, ear, salivary gland, and esophageal surgery.
C02	Applies diagnostic and surgical approaches used in gastric, intestinal, perineal, and abdominal cavity surgeries.
C03	Determines appropriate surgical techniques in urinary system surgeries.
C04	Evaluates clinical findings related to respiratory system and liver-spleen surgeries.
C05	Acts in accordance with asepsis-antiseptis principles, ethical rules, and animal welfare in surgical diseases.
C06	Interprets laboratory and imaging findings in surgical cases.
C07	Analyzes scientific data related to diagnosis, treatment, and prognosis processes of surgical diseases.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	4	4
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	4	4
Total Work Load			92
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	3	5	4	3	5	3	4	3	3	3	4	5	2	2	1	4	3	3
C01	4	3	5	3	2	4	3	4	2	2	2	5	4	1	1	1	2	2	2
C02	4	2	5	5	3	5	3	4	3	2	2	5	5	2	1	1	3	3	3
C03	4	2	5	5	3	5	3	4	3	2	2	5	5	2	1	1	3	3	3
C04	4	3	5	4	3	5	4	4	4	3	2	4	5	2	2	1	4	3	3
C05	3	2	4	3	3	4	3	3	3	4	5	3	4	2	2	1	2	2	2
C06	4	3	5	4	3	5	4	4	4	3	2	4	5	2	2	1	5	4	5
C07	4	5	4	3	2	4	3	3	3	3	3	3	4	2	2	2	5	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET356 MEDICATION USE IN SKIN DISEASES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET356	MEDICATION USE IN SKIN DISEASES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The goal is to teach the pharmacological properties, routes of administration, indications, and potential side effects of drugs used in the treatment of skin diseases. Students are expected to learn topical, systemic, and combined treatment approaches, as well as gain awareness of rational drug use, resistance development, and food safety.

Teaching Methods and Techniques:

• Skin structure and its pharmacological importance • Topical and systemic drug applications • Antibacterial, antifungal, and antiparasitic drugs • Anti-inflammatory and immunomodulatory agents • Antipruritics and supportive treatments • Use of corticosteroids and biological drugs in skin diseases • Drug resistance, side effects, and complications • Rational drug use in skin diseases

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources

Textbook	:	
Resources	:	Scott DW, Miller WH, Griffin CE. Muller & Kirk's Small Animal Dermatology,Hnilica KA, Patterson AP. Small Animal Dermatology: A Color Atlas and T
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:	
Engineering	:	Science	:	
Engineering Design	:	Health	:	100
Social Sciences	:	Field	:	

Course Content

Week	Topics	Study Materials	Materials
1	Giriş – Deri hastalıklarında ilaç kullanımının önemi, temel kavramlar		
2	Deri anatomisi ve fizyolojisi – Farmakokinetik açıdan deri		
3	İlaç uygulama yolları – Topikal, sistemik ve kombine uygulamalar		
4	Topikal ilaç formları – Merhem, krem, losyon, solüsyon, şampuanlar		
5	Antibakteriyel ilaçlar – Topikal ve sistemik kullanım		
6	Antifungal ilaçlar – Lokal ve yaygın mantar enfeksiyonlarında tedavi		
7	Antiparaziter ilaçlar – Ektoparazitlere yönelik topikal ve sistemik ilaçlar		
8	Antiinflamatuvar ilaçlar – Kortikosteroidler, NSAID'ler		
9	İmmünomodülatör ilaçlar ve biyolojik ajanlar		
10	Antipruritik ilaçlar ve destek tedavileri		
11	Deri hastalıklarında kombine tedavi stratejileri		
12	İlaç yan etkileri, toksisite ve direnç gelişimi		
13	Vaka analizi – Deri hastalıklarında ilaç seçimi ve klinik uygulamalar		
14	Genel değerlendirme – Akılcı ilaç kullanımı ve güncel tedavi yaklaşımları		

Recommended Optional Programme Components

VET309 PHARMACOLOGY-I

VET304 PHARMACOLOGY-II

Course Learning Outcomes

No	Learning Outcomes
C01	• Explains the impact of skin anatomy and physiology on drug administration. • Identifies topical, systemic, and combination drugs used in skin diseases. • Classifies antibacterial, antifungal, antipar

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	8	1	8
Assignment	0	%0	Assignments	8	1	8
Attendance	0	%0	Presentation	5	1	5
Practice	0	%0	Mid-terms	1	4	4
Project	0	%0	Practice	0	0	0
Final examination	1	%60	Laboratory	0	0	0
Total		100	Project	0	0	0
			Final examination	1	7	7
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	5	4	5	4	4	4	4	5	4	5	4	5	5	4	5	4	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET340 DENTAL DISEASES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET340	DENTAL DISEASES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seğmeli

Goals:

he objective of this course is to teach the anatomical structure of teeth and surrounding tissues, the etiology and clinical diagnosis of dental diseases, and basic dental operations in domestic animals.

Teaching Methods and Techniques:

It covers clinical anatomy of teeth, periodontal diseases, tooth extraction techniques, and methods for maintaining dental health.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Barış AKGÜL

Instructors:

Prof.Dr. Nihat ŞINDAKAssociate Prof.Dr. Mustafa Barış AKGÜL Asist Prof.Dr. Onur YILDIRIMProf.Dr. Mehmet SAĞLAMAsist Prof.Dr. Kadir SULU Associate Prof.Dr. Ali GÜLAYDIN

Assistants:

Research Assist. Bahar ERDEN Research Assist. Maruf YILMAZ Research Assist. Sevdet KILIÇ

Recommended Sources

Textbook	: Gorrel, C. (2013). Veterinary Dentistry for the General Practitioner. Saunders.
Resources	: Holmstrom, S. E. (2018). Veterinary Dentistry: A Team Approach. Elsevier.
Documents	: Verstraete, F. J., & Lommer, M. J. (2012). Oral and Maxillofacial Surgery in Dogs and Cats. Saunders.
Assignments	: Gorrel, C. (2013). Veterinary Dentistry for the General Practitioner. Saunders. Holmstrom, S. E. (2018). Veterinary Dentistry: A Team Approach. Els
Exams	: Gorrel, C. (2013). Veterinary Dentistry for the General Practitioner. Saunders. Holmstrom, S. E. (2018). Veterinary Dentistry: A Team Approach. El

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Dental terminology		
2	Tooth numbers and tiadan numbering system		
3	Oral examination in cats and dogs		
4	Gingivitis and its treatment		
5	Periodontal diseases and treatment options		
6	Gingivostomatitis and its treatment		
7	oral papillomatosis		
8	Midterm Exam		
9	Tooth resorption in cats		
10	Ordotandic diseases		
11	Tooth decay in dogs		
12	Gingivostomatitis in cats		
13	Sorting and numbering in large animals		
14	Dental diseases in large animals		
15	Treatment options for dental diseases in large animals		
16	Final Exam		

Recommended Optional Programme Components

VET525 ANATOMY

Course Learning Outcomes

No	Learning Outcomes
C01	Defines the morphological structures of teeth and anatomical differences between species.
C02	Explains the pathogenesis and classification of periodontal diseases.
C03	Selects basic instruments and radiographic imaging techniques used in dental examination.
C04	Plans appropriate treatment or surgical intervention protocols for encountered dental pathologies.
C05	Evaluates the current literature on oral and dental health with a critical approach.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P02	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	3	4	5	5	4	4	4	4	4	4	4	4	4	4	4
C01	5	5	5	5	4	5	4	5	3	5	4	4	4	4	4	4	4	4	4
C02	5	5	5	5	3	4	5	4	4	4	4	4	4	4	4	4	4	4	4
C03	5	5	5	5	2	5	5	5	5	5	5	5	4	4	4	4	4	4	4
C04	5	5	5	5	2	5	5	4	5	4	4	4	5	5	5	5	5	5	5
C05	5	5	5	5	3	3	4	5	5	3	3	3	4	4	4	4	4	4	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET362 EXOTIC ANIMAL ANATOMY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET362	EXOTIC ANIMAL ANATOMY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach the anatomical structures of exotic animal species and to enable students to gain the ability to relate species-specific anatomical characteristics to clinical, surgical, and diagnostic applications.

Teaching Methods and Techniques:

This course covers the systematic anatomy, organ systems, and interspecies anatomical differences of exotic mammals, reptiles, amphibians, avian species, and other exotic animals. In addition, clinically important anatomical structures and adaptation features are examined.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Fatma İŞBİLİR

Instructors:

Associate Prof.Dr. Barış Can GÜZELAssociate Prof. Dr. Fatma İŞBİLİR

Assistants:

Research Assist. Muhammed Zahid ATLI

Recommended Sources	
Textbook	: Dyce, K. M., Sack, W. O., & Wensing, C. J. G. (2017). Textbook of Veterinary Anatomy (5th ed.). Elsevier.
Resources	:
Documents	: König, H. E., & Liebich, H. G. (2020). Veterinary Anatomy of Domestic Animals: Textbook and Colour Atlas (7th ed.). Thieme.
Assignments	:
Exams	: O'Malley, B. (2005). Clinical Anatomy and Physiology of Exotic Species. Elsevier.

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 100
Social Sciences	: 0	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction, concept and classification of exotic animals		
2	General anatomical terminology and comparative anatomy		
3	Skeletal system in reptiles		
4	Muscular and digestive systems in reptiles		
5	Respiratory and circulatory systems in reptiles		
6	Skeletal system and flight adaptations in birds		
7	Digestive and respiratory systems in birds		
8	Mid exam		
9	Circulatory and urogenital systems in birds		
10	General anatomy in small mammals (rabbit, rodents, etc.)		
11	Systemic anatomy in small mammals		
12	Comparative anatomy among species		
13	Clinically important anatomical structures		
14	Dissection/demonstration practices		
15	General review and clinical case evaluations		
16	FINAL EXAM		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the fundamental characteristics of anatomical structures belonging to exotic animal species.
C02	Explains the anatomical characteristics of organ systems in exotic mammals, reptiles, amphibians, and avian species.
C03	Compares anatomical differences among different exotic species.
C04	Relates knowledge of exotic animal anatomy to clinical and surgical applications.
C05	Analyzes anatomical structures of exotic animals using imaging methods.
C06	The student uses anatomical terminology related to exotic animals accurately.
C07	Expresses knowledge related to exotic animal anatomy verbally and in writing using scientific terminology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	12	12
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			66
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	4	4	5	4	5	4	4	5	3	3	3	4	4	4	3
C01	5	5	5	3	4	5	5	3	4	5	4	5	4	5	4	5	5	4	5
C02	5	5	5	2	4	4	4	3	3	3	5	5	4	2	5	5	3	5	4
C03	5	3	5	4	5	3	5	4	5	5	4	5	4	3	5	4	5	3	5
C04	4	5	5	5	4	5	5	3	4	3	5	4	5	3	5	4	4	4	4
C05	4	4	4	4	3	5	4	5	4	5	4	5	5	5	5	3	3	3	3
C06	5	4	4	5	3	5	4	3	5	4	3	5	5	3	4	5	5	4	3
C07	5	5	5	5	4	5	3	3	3	3	5	5	4	4	4	4	5	5	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET342 EXOTIC ANIMAL DISEASES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET342	EXOTIC ANIMAL DISEASES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

In this course; it is aimed for students to comprehend the anatomical and physiological characteristics of exotic pet animals such as small mammals (rabbits, rodents, etc.), reptiles, birds, and amphibians, to apply specific diagnostic and treatment methods for these species, and to manage husbandry- and nutrition-related diseases at a clinical level.

Teaching Methods and Techniques:

The course covers clinical examination, restraint, and injection techniques of exotic pet animals, their common infectious and metabolic diseases, radiological/laboratory diagnostic methods, and basic anesthesia/surgical approaches.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Prof.Dr. Tekin ŞAHİN

Assistants:

Research Assist. mahsum Başak

Recommended Sources	
Textbook	: 1-Reptil Hayvan Hastalıkları Ed. Prof. Dr. Arif Kurtde
Resources	: 2-Kafes Kuşlarının Muayenesi ve Hastalıkları Ed. Prof. Dr. Arif Kurtde
Documents	: Barrie MT(1999) Chameleon medicine. Zoo and Wild Animal Medicine, Current Therapy. W.B. Saunders Comp. Philadelphia, Toronto.,Coles BH(198
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Reptil Animal diseases, Anatomy and physiology of Reptiles		
2	Nutrition of reptile, Retention, gender determination, Clinical examination		
3	Nutritional disorders		
4	Diseases caused by bacteria		
5	Diseases caused by viruses		
6	Diseases caused by fungi and parasites		
7	Metabolic and endocrine diseases		
8	MIDTERM EXAM		
9	Cage birds and diseases		
10	Physical examination of birds, Clinical signs of birds (digestive, respiratory, urinary, eye, nerve and musculoskeletal system		
11	Bacteria, viruses, fungi and parasitic diseases		
12	Metabolic, kidney, liver, endocrine and vitamin mineral diseases		
13	Care, feeding and diseases of bird offspring		
14	Turtle diseases		
15	Shell problems		
16	FINAL EXAM		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the anatomical, physiological, and metabolic differences of exotic animal species (birds, reptiles, rodents).
C02	Applies safe restraint techniques for different exotic species to minimize stress and trauma.
C03	Clinically differentiates between pathologies formed due to husbandry and nutritional errors in exotic animals.
C04	Demonstrates the skill of collecting blood, urine, or fecal samples from birds and reptiles and interpreting laboratory analyses.
C05	Selects appropriate fluid therapy and stabilization protocols in emergency and critical conditions (dehydration, trauma, etc.) of exotic animals.
C06	Prepares safe anesthesia protocols in small mammals and birds and manages basic surgical processes (castration, abscess treatment, etc.).
C07	Provides professional preventive medicine counseling to clients regarding zoonotic diseases originating from exotic animals (Psittacosis, Salmonellosis, etc.).

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
C01	3	3	3	2	5	4	5	2	3	2	5	4	5	2	3	2	5	4	5
C02	5	4	2	3	3	3	2	5	2	3	2	2	2	3	3	2	5	4	2
C03	2	3	3	2	5	4	2	3	2	5	4	2	3	2	5	4	2	3	3
C04	3	2	5	4	2	3	2	5	2	3	3	3	2	5	4	2	3	2	2
C05	5	4	4	4	2	3	2	5	4	2	2	3	3	2	5	4	2	3	3
C06	2	5	4	2	2	3	2	5	4	2	3	2	5	4	2	2	2	3	2
C07	5	4	4	5	4	2	3	3	2	5	4	3	2	5	4	2	3	2	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET302		ENTOMOLOGY			
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET302	ENTOMOLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

eaching of General Introduction to Arthropods of Veterinary and Medical Importance, extenal and internal morphology,biology, harmfulness,control measuremnets. Arthropoda which are importance for veterinary medicine such as lice, bugs, flies, fleas, hard and soft ticks, mites and their morphological, biological and epidemiological features, veterinary and medical importance, diagnosis, treatment and control strategies. The student would identifie arthropoda at least at the level ordo, family genus. They will diagnosis and treatment of ectoparasitic diseases and develop control strategies to the ectoparasites.

Teaching Methods and Techniques:

Introduction to the Entomology, General features of Arthropoda,Classification, General external morphology, General internal morphology, biology, behaviour etc., Collecetion and preservation of arthropods, medical and veterinary importance, Control measurments of arthropods, İnsektisides and Acaricides, Introduction to Antennata, Insecta Morphological and biological features, veterinary importance, diagnosis, treatment and control, Morphological and biological features, veterinary importance, diagnosis, treatment and control, Morphological and biological features, veterinary importance, diagnosis, treatment and control, Introduction to Diptera, Morphological and biological features, veterinary importance, diagnosis, treatment and control of the flies belonging to the families, Morphological and biological features, myiasis, veterinary importance, diagnosis, treatment and control

Prerequisites:

Course Coordinator:

Associate Prof.Dr. BURÇAK ASLAN ÇELİK

Instructors:

Associate Prof.Dr. Ceylan CEYLAN

Assistants:

Recommended Sources

Textbook	:	Prof. Dr. Bilal DİK Veteriner Entomoloji 2012
Resources	:	1.Medikal ve Veteriner Entomoloji, Mullen G,Durden L, Akademik Baskı, 2002 2.Veteriner Ektoparazitler,Wall R, Shearer D. 2001
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathmatics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction to the Entomology. General features of Arthropoda,Classification, General external morphology		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
2	General internal morphology, biology, behaviour etc.		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
3	Collection and preservation of arthropods, medical and veterinary importance		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
4	Control measurments of arthropods, İnsektisides and Acaricides		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
5	Introduction to Antennata, Insecta Morphological and biological features, veterinary importance, diagnosis, treatment and		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
6	Morphological and biological features, veterinary importance, diagnosis, treatment and control		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
7	Morphological and biological features, veterinary importance, diagnosis, treatment and control		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
8	Midterm exam		
9	Introduction to Diptera, Morphological and biological features, veterinary importance, diagnosis, treatment and control of t		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
10	Morphological and biological features, myiasis, veterinary importance, diagnosis, treatment and control		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
11	Hypodermatidae ,Hippoboscidae, Muscidae etc. (Musca, Stomoxys, Fannia, Haematobia)Glossinidae Morphological and bi		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
12	Chelicerata hakkında genel bilgi, akrep ve örümceklerin iç ve dış yapıları, gelişmeleri, zararları ve mücadele yolları		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
13	Ixodidae Morphological and biological features, veterinary importance, diagnosis, treatment and control		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
14	Argasidae Morphological and biological features, veterinary importance, diagnosis, treatment and control		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
15	Trombiculidae, Pyemotidae, Cheyletiellidae, Mesositiqmata; Dermanyssidae, VarroaidaeMorphological and biological feature		Prof. Dr. Bilal DİK Veteriner Entomoloji 2
16	Final Exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Classifies arthropods important in veterinary medicine according to their morphological characteristics.
C02	Explains the biological developmental processes of arthropods.
C03	Evaluates the effects of arthropods on animal and public health.
C04	Analyzes diseases transmitted by vector arthropods.
C05	Examines entomological specimens under laboratory conditions.
C06	Compares arthropod control methods.
C07	Interprets current developments in veterinary entomology.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	3	42
Quizzes	0	%0	Hours for off-the-c.r.stud	14	0,5	7
Assignment	0	%0	Assignments	0	0	0
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	1	4	4
Project	0	%0	Practice	0	0	0
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	7	7
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	4	3	5	5	1	4	3	1	1	5	4	4	1	1	3	4
C01	4	4	4	3	3	5	2	4	5	3	2	3	5	2	4	4	3	5	3
C02	4	5	5	3	3	3	2	3	3	2	3	4	4	3	4	5	4	3	2
C03	4	5	3	3	4	5	4	3	3	2	3	4	3	3	2	3	4	4	4
C04	3	5	2	3	4	3	2	4	3	4	4	5	4	4	3	5	3	5	3
C05	3	3	2	3	3	4	4	5	5	5	5	4	3	2	4	3	4	3	4
C06	3	4	5	3	4	3	3	3	4	3	3	3	4	3	3	4	3	5	3
C07	4	3	4	5	4	4	4	2	3	2	3	2	5	4	2	2	4	3	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET350 PHARMACOKINETIC AND PHARMACODYNAMIC INTERACTIONS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET350	PHARMACOKINETIC AND PHARMACODYNAMIC INTERACTIONS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with a fundamental understanding of pharmacokinetic and pharmacodynamic interactions among drug-drug, drug-nutrient, and drug-environmental factors. Students will learn to analyze the clinical consequences of these interactions, prevent them, and develop rational treatment plans.

Teaching Methods and Techniques:

1. Introduction and Basic Concepts – Review of Pharmacokinetics (ADME) and Pharmacodynamics 2. Definition and Clinical Significance of Drug Interactions 3. Interactions in the Absorption Phase – pH, complex formation, transporters 4. Interactions in the Distribution Phase – Plasma protein binding, tissue distribution 5. Interactions in the Metabolism Phase I – Liver enzymes (CYP450 system) 6. Interactions in the Metabolism Phase II – Enzyme induction and inhibition 7. Interactions in the Excretion Phase – Renal excretion, transporters, ion traps 8. Pharmacodynamic Interactions I – Additive, synergistic, and antagonistic effects 9. Pharmacodynamic Interactions II – Interactions at the receptor and system level 10. Drug-Food Interactions – Alcohol, caffeine, grapefruit juice, milk, etc. 11. Drug-Herbal Product Interactions – Examples: Ginseng, St. John's Wort, Ginkgo 12. Polypharmacy and Risk Management 13. Clinical Examples in Veterinary and Human Medicine – Antibiotics, anticoagulants, NSAIDs, etc. 14. General Review and Case Discussions – Preventing Interactions and Rational Drug Use

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources

Textbook	:	
Resources	:	Kayaalp SO. Rasyonel Tedavi Yönünden Tıbbi Farmakoloji,Tiryaki O. Farmakoloji Ders Kitabı,Goodman & Gilman's The Pharmacological Basis of The
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Giriş ve Temel Kavramlar – Farmakokinetik (ADME) ve farmakodinamik temellerin tekrar		
2	İlaç Etkileşimlerinin Tanımı ve Klinik Önemi		
3	Emilim Aşamasında Etkileşimler – pH, kompleks oluşumu, taşıyıcılar		
4	Dağılım Aşamasında Etkileşimler – Plazma protein bağlanması, doku dağılımı		
5	Metabolizma Aşamasında Etkileşimler I – Karaciğer enzimleri (CYP450 sistemi)		
6	Metabolizma Aşamasında Etkileşimler II – Enzim indüksiyonu ve inhibisyonu		
7	Atılım Aşamasında Etkileşimler – Böbrek atılımı, taşıyıcılar, iyon tuzağı		
8	Farmakodinamik Etkileşimler I – Aditif, sinerjik, antaonistik etkiler		
9	Farmakodinamik Etkileşimler II – Reseptör düzeyinde ve sistem düzeyinde etkileşimler		
10	İlaç-Besin Etkileşimleri – Alkol, kafein, greyfurt suyu, süt vb.		
11	İlaç-Bitkisel Ürün Etkileşimleri – Örnekler: Ginseng, san kantaron, ginkgo		
12	Coklu İlaç Kullanımı (Polifarmasi) ve Risk Yönetimi		
13	Veteriner ve İnsan Hekimliğinde Klinik Örnekler – Antibiyotikler, antikoagulanlar, NSAID'ler vb.		
14	Genel Değerlendirme ve Vaka Tartışmaları – Etkileşimlerin önlenmesi ve akıllı ilaç kullanımı		

Recommended Optional Programme Components

VET309 PHARMACOLOGY-I

VET304 PHARMACOLOGY-II

Course Learning Outcomes

No Learning Outcomes

C01 • Explains pharmacokinetic and pharmacodynamic concepts in detail. • Classifies drug interactions according to ADME processes. • Analyzes the clinical consequences of enzyme induction and inhib

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	11	1	11
Assignments	4	1	4
Presentation	4	1	4
Mid-terms	1	4	4
Practice	0	0	0
Laboratory	0	0	0
Project	1	1	1
Final examination	1	8	8
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	4	5	4	5	4	5	5	5	5	5	4	5	4	5	4	5	5

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET304 PHARMACOLOGY-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET304	PHARMACOLOGY-II	4	4	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The basic principles of chemotherapy The use of drugs in treatment of infectious diseases The use of drugs in treatment of systemic diseases The use of drugs in supportive therapy of diseases

Teaching Methods and Techniques:

Antibacterial drugs, Anthelmintics, Antiprotozoal drugs, Narcotic and non-narcotic analgesics Drugs acting on the digestive system, Drugs acting on fluid and electrolyte balance, Drugs acting on the respiratory system and diuretics, Corticosteroids and other local hormones, Antiseptics and disinfectants

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Devran COŞKUN

Instructors:

Associate Prof.Dr. Devran COŞKUN

Assistants:

Recommended Sources	
Textbook	: Veteriner İlaç(2013, Ed:Prof.Dr. Enver YAZAR)
Resources	: SPECIAL PHARMACOLOGY Selahattin KAYA
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Antibacterial drugs		Veterinary Medicine E-Book: A textbook
2	Antibacterial drugs		Veterinary Medicine E-Book: A textbook
3	Antibacterial drugs		Veterinary Medicine E-Book: A textbook
4	Antifungal drugsAnthelmintic drugs		Veterinary Medicine E-Book: A textbook
5	Anthelmintic Drugs		Veterinary Medicine E-Book: A textbook
6	Antiprotozoal drugs		Veterinary Medicine E-Book: A textbook
7	Narcotic and Non-narcotic Analgesic Drugs		Veterinary Medicine E-Book: A textbook
8	Middle exam		
9	Drugs Used in Cardiovascular System Diseases		Veterinary Medicine E-Book: A textbook
10	Narcotic and non-narcotic analgesics		Veterinary Medicine E-Book: A textbook
11	Drugs acting on the digestive system		Veterinary Medicine E-Book: A textbook
12	Drugs acting on the digestive system		Veterinary Medicine E-Book: A textbook
13	Drugs acting on Fluid-electrolyte Balance and Diuretics		Veterinary Medicine E-Book: A textbook
14	Corticosteroids and other local hormones		Veterinary Medicine E-Book: A textbook
15	Antiseptics and disinfectants		Veterinary Medicine E-Book: A textbook

Course Learning Outcomes	
No	Learning Outcomes
C01	Properties of the drugs acting body systems
C02	Doses and usage drugs in the patients animal
C03	The correct and conscious drug use
C04	The correct and conscious drug use

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	12	12
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	24	24
Total Work Load			120
ECTS Credit of the Course			4

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	4	4	2	4	4	1	4	3	4	1	4	4	4	1	1	4	3
C01	5	4	4	4	2	4	4	1	4	3	4	1	4	4	4	1	1	4	3
C02	5	4	4	4	2	4	4	1	4	3	4	1	4	4	4	1	1	4	3
C03	5	4	5	4	3	4	4	1	4	3	4	1	4	4	4	2	2	4	3
C04	5	4	4	4	3	4	4	2	3	3	4	2	4	4	4	2	2	4	3

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET324 EYE DISEASES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET324	EYE DISEASES	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to enable students to understand ocular anatomy, physiology, and the diagnosis and treatment principles of common eye diseases in animals.

Teaching Methods and Techniques:

This course covers the anatomy and physiology of the eye, ophthalmic examination techniques, and diseases of the eyelids, conjunctiva, cornea, sclera, uvea, lens, retina, and optic nerve, as well as traumatic, infectious, degenerative, and surgical ocular disorders. Diagnostic, differential diagnostic, medical, and surgical treatment approaches to eye diseases in small and large animals are also addressed.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Banş AKGÜL

Instructors:

Associate Prof.Dr. Ali GÜLAYDIN

Assistants:

Research Assist. Maruf Yılmaz

Recommended Sources	
Textbook	: Veterinary Ophthalmology
Resources	: Slatter's Fundamentals of Veterinary Ophthalmology
Documents	: American College of Veterinary Ophthalmologists
Assignments	: recent articles (Veterinary Ophthalmology Journal)
Exams	: Veterinary Ophthalmology Slatter's Fundamentals of Veterinary Ophthalmology American College of Veterinary Ophthalmologists recent articles (Veterinary Ophthalmology Slatter's Fundamentals of Veterinary Ophthalmology American College of Veterinary Ophthalmologists Güncel makaleler)

Course Category	
Mathematics and Basic Sciences	:
Engineering	:
Engineering Design	:
Social Sciences	:
Education	:
Science	:
Health	: 100
Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to ocular anatomy	Review basic anatomy	Lecture notes
2	Ocular physiology	Review physiology	Book chapters
3	Ophthalmic examination techniques	Clinical examination	Clinical videos
4	Eyelid diseases	Review anatomy	Images
5	Conjunctival diseases	Tissue structure	Case examples
6	Corneal diseases	Corneal structure	Clinical cases
7	Lens diseases	Lens anatomy	Images
8	Midterm exam	Review first 7 weeks	Lecture notes
9	Retinal diseases	Retinal anatomy	Images
10	Glaucoma	Intraocular pressure	Clinical cases
11	Uveitis	Immune system	Articles
12	Ophthalmic emergencies	Emergency cases	Clinical examples
13	Diagnostic methods	Tests	Guidelines
14	Treatment approaches	Medications	Protocols
15	Current literature	Article review	Recent articles
16	Final exam	General review	All materials

Recommended Optional Programme Components	
VET250 GENERAL SURGERY	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the anatomical and physiological structure of the eye in domestic animals.
C02	Classifies diseases of ocular adnexa and intraocular structures.
C03	Applies ophthalmic examination methods in clinical cases.
C04	Interprets clinical and laboratory findings in ophthalmic diagnosis.
C05	Plans medical and surgical treatment options for ocular diseases.
C06	Evaluates the clinical decision-making process in traumatic and emergency ophthalmic cases.
C07	Adopts the principles of professional ethics, animal welfare, and owner communication in ophthalmic practice.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	6	6
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			30
ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	4	4	5	4	2	4	5	4	4	4	4	4	2	4	4	4
C01	5	5	5	4	4	4	3	2	4	5	4	4	4	4	3	2	4	4	4
C02	5	5	5	5	4	5	4	2	4	5	4	4	4	4	3	2	4	5	5
C03	5	5	5	4	4	5	4	2	4	5	4	4	4	5	4	2	4	4	4
C04	5	5	5	5	5	4	5	2	5	4	5	4	4	4	4	2	4	5	5
C05	5	5	5	5	4	4	5	2	4	5	5	5	4	5	4	2	4	4	4
C06	5	5	5	4	4	5	4	2	5	5	5	5	5	5	4	3	4	5	4
C07	5	5	5	4	5	4	4	2	4	4	5	4	5	5	5	3	4	4	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

BIOTECHNOLOGY AND NANOTECHNOLOGY IN ANIMAL NUTRITION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET372	BIOTECHNOLOGY AND NANOTECHNOLOGY IN ANIMAL NUTRITION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach biotechnology and nanotechnology applications in animal nutrition and to explain the effects of these technologies on animal health and productivity.

Teaching Methods and Techniques:

Covers biotechnology and nanotechnology applications in animal nutrition and the effects of these technologies on animal health and productivity.

Prerequisites:

Course Coordinator:

Instructors:

Prof.Dr. Tuncay TUFAN

Assistants:

Recommended Sources

Textbook	:	Budak, D. (2018). Hayvan beslemede nanoteknoloji. Journal of Advances in VetBio Science and Techniques, 3(3), 90-97.
Resources	:	Budak, D. (2018). Hayvan beslemede nanoteknoloji. Journal of Advances in VetBio Science and Techniques, 3(3), 90-97.
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 100

Course Content

Week	Topics	Study Materials	Materials
1	Introduction to biotechnology and nanotechnology		
2	Basic principles of biotechnology in animal nutrition		
3	Basic principles of nanotechnology in animal nutrition		
4	Biotechnological feed additives		
5	Probiotic and prebiotic applications		
6	Enzyme technologies and areas of use		
7	Genetic engineering and feed technologies		
8	midterm exam		
9	Effects of nanotechnology on animal health		
10	Effects of biotechnology on productivity performance		
11	Microbial fermentation technologies		
12	Functional feeds and next-generation additives		
13	Sustainable technology applications in animal nutrition		
14	Biosafety and ethical issues		
15	Current studies and applications		
16	Final exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains biotechnology applications in animal nutrition.
C02	Identifies nanotechnology applications in animal nutrition.
C03	Evaluates biotechnological feed additives.
C04	Analyzes the effects of nanotechnological applications on animal health.
C05	Interprets the effects of new technologies on animal productivity
C06	Applies biotechnology and nanotechnology usage areas in animal nutrition.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			48
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
C01	3	3	3	2	3	2	3	3	2	2	3	2	3	3	3	3	3	2	3
C02	2	4	3	3	3	2	3	3	3	3	2	2	2	3	3	3	3	3	3
C03	3	3	2	3	3	2	3	3	3	3	3	3	3	3	2	3	3	3	3
C04	3	3	3	3	3	3	3	3	3	2	3	3	2	3	2	2	2	3	2
C05	2	3	3	3	2	2	3	2	3	2	2	2	3	3	3	2	2	3	3
C06	3	3	3	3	3	3	3	3	3	3	3	2	3	2	3	3	3	3	3

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET312 ANIMAL BREEDING					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET312	ANIMAL BREEDING	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

Teaching of methods for increasing animal production with example of the species and breeds.

Teaching Methods and Techniques:

Includes general informations on character, variation, variation coefficient phenotype, genotype, environmental factors, degrees of heritability and repeatability, selection and selection methods, mating methods, phenotype and genotype correlations

Prerequisites:

Course Coordinator:

Instructors:

Associate Prof.Dr. Ali Osman TURGUTAsist Prof.Dr. Mehmet EROĞLU

Assistants:

Recommended Sources	
Textbook	: 1) EVRİM Mehmet, GÜNEŞ Halil (1995). Hayvan Islahı. İstanbul Üniversitesi Veteriner Fakültesi, İstanbul. 2) TUNCEL Erdoğan (1991). Hayvan Islah
Resources	: 1) EVRİM Mehmet, GÜNEŞ Halil (1995). Hayvan Islahı. İstanbul Üniversitesi Veteriner Fakültesi, İstanbul. 2) TUNCEL Erdoğan (1991). Hayvan Islah
Documents	:
Assignments	:
Exams	:

Course Category		
Mathematics and Basic Sciences	:	Education
Engineering	:	Science
Engineering Design	:	Health
Social Sciences	:	Field
		: 100

Course Content		
Week	Topics	Study Materials Materials
1	Historical Development of Animal Breeding	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).
2	Animal Breeding in the World	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).
3	Animal Breeding in Turkey, Genetic and Animal Breeding	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).
4	Deleterious Genes and Animal Breeding	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).
5	Characters and their characteristics, Introduction of the Population Genetic	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).
6	Gene, Gene Frequency and their calculation, Variation and their components	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).
7	Phenotypic Variation, Genetic Variation and their components	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).
8	Heritability and their calculation methods	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).
9	Degree of Repeatability and their calculation, Selection and their Genetic Effects	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).
10	Genetic Improvement and their components	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).
11	Selection and their Methods	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).
12	Phenotypic and Genetic Correlations	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).
13	Breeding Methods	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).
14	Factors of Environment Effects and their Eradications	Course of the study subjects planned to 1) EVRİM Mehmet, GÜNEŞ Halil (1995).

Course Learning Outcomes	
No	Learning Outcomes
C01	Getting basic knowledge in areas related to Character, Phenotype, genotype, variation, variation coefficient and environmental factors
C02	Understanding degrees of heritability and repeatability
C03	To provide information about Selection and selection methods with mating methods.
C04	To provide information about Phenotype and Genotype correlations

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	6	6
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	1	1	1	1	1	5	1	1	1	1	1	1	1	5	1	1	1
C01	4	4	1	1	1	1	1	5	1	1	1	1	1	1	1	4	1	1	1
C02	5	4	1	1	1	1	1	4	1	1	1	1	1	1	1	5	1	1	1
C03	4	5	1	1	1	1	1	5	1	1	1	1	1	1	1	5	1	1	1
C04	5	5	1	1	1	1	1	4	1	1	1	1	1	1	1	5	1	1	1

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET318 INTERNAL MEDICINE-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET318	INTERNAL MEDICINE-I	4	4	4

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

This course aims to teach students the etiology, pathogenesis, diagnostic methods, and treatment principles of digestive system, liver, and metabolic diseases in domestic animals (especially ruminants and equids).

Teaching Methods and Techniques:

The course covers gastrointestinal tract diseases starting from the oral cavity, liver disorders, and economically important metabolic diseases at both clinical and theoretical levels.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Asist Prof.Dr. kerem ercan

Assistants:

Research Assist. Mahsum BAŞAK

Recommended Sources	
Textbook	: İmren, H. Y., & Şahal, M. (1991). Veteriner iç hastalıkları. Medisan.Ankara.
Resources	: Gül, Y. (2022). Geviş getiren hayvanların iç hastalıkları (Sığır, koyun-keçi). Medipres. Malatya.
Documents	: Ceylan, E. (Ed.). (2025). Kedi köpek iç hastalıkları. Akademisyen Kitabevi.Ankara.
Assignments	: Aytuğ, N. (2021). Köpek ve kedilerin iç hastalıkları klinik el kitabı. Medipres.Malatya.
Exams	: İmren, H. Y. (1998). Kedi ve köpek hastalıkları. Medisan.Ankara. Ettinger S.J., Feldman E.C. (2000) Textbook of veterinary internal medicine: diseases of the dog and cat,5 th Ed., W.B.Saunders Company, Volume

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction: Digestive System Symptomatology		
2	Diseases of the Mouth, Esophagus, and Pharynx		
3	Ruminant Forestomach Diseases - I (Indigestions)		
4	Ruminant Forestomach Diseases - II (Tympany, TRP)		
5	Abomasal Diseases (Displacement and Ulcers)		
6	Digestive System Diseases and Colic in Horses - I		
7	Digestive System Diseases and Colic in Horses - II		
8	midterm exam		
9	Diseases of the Small and Large Intestines (Enteritis)		
10	Diseases of the Peritoneum and Abdominal Cavity		
11	Diseases of the Liver and Pancreas		
12	Disorders of Carbohydrate and Fat Metabolism		
13	Digestive system diseases in dogs and cats I		
14	Digestive system diseases in dogs and cats II		
15	Digestive system diseases in dogs and cats III		
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the etiologic factors and pathogenesis of digestive system diseases.
C02	Performs differential diagnosis of forestomach diseases in ruminants.
C03	Conducts colic examination in horses and evaluates the urgency of the condition.
C04	Analyzes laboratory findings of metabolic diseases (ketosis, hypocalcemia, etc.).
C05	Plans and manages appropriate treatment protocols for liver diseases.
C06	Establishes the relationship between ration and diseases arising from nutritional errors.
C07	Applies rational drug use and animal welfare principles in clinical cases.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	14	14
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	14	14
Total Work Load			112
ECTS Credit of the Course			4

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	3	4	3	5	4	3	4	2	5	4	4	3	2	5	5
C01	5	5	5	4	3	4	3	3	4	3	3	2	4	4	3	3	3	4	4
C02	5	4	5	5	3	4	3	3	4	3	3	2	5	4	3	3	2	5	4
C03	5	4	5	5	3	4	3	3	4	3	3	3	5	4	3	3	2	5	4
C04	4	4	5	5	3	4	3	3	4	3	3	2	5	4	4	3	3	5	5
C05	5	5	5	4	3	4	3	4	5	4	4	2	5	4	4	3	2	4	5
C06	4	4	4	3	3	3	3	5	5	3	3	1	4	3	4	4	3	3	4
C07	4	4	4	4	4	4	4	4	4	5	5	2	4	5	5	3	2	4	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET352 IMMUNOMODULATOR DRUGS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET352	IMMUNOMODULATOR DRUGS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The goal is to provide students with knowledge of the mechanisms of action, pharmacokinetic properties, indications, and adverse effects of drugs that regulate the immune system (immunosuppressive, immunostimulant, and immunomodulatory). Furthermore, the goal is to provide students with skills in selecting medications for the treatment of immunological diseases, evaluating drug-drug interactions, and rational use.

Teaching Methods and Techniques:

1. Introduction and Basic Concepts – The immune system, regulation of the immune response with drugs 2. Clinical Importance of Immunomodulation – Applications in human and animal health 3. Corticosteroids – Mechanism, pharmacokinetics, clinical use, side effects 4. Cytotoxic Agents – Azathioprine, cyclophosphamide, etc. 5. Calcineurin Inhibitors – Cyclosporine, tacrolimus 6. mTOR Inhibitors – Sirolimus, everolimus 7. Biological Agents I – Monoclonal antibodies (anti-TNF, anti-IL-10 drugs, etc.) & Biological Agents II – Cytokines, interferons, interleukins 9. Immunostimulants I – Vaccine adjuvants, bacterial products 10. Immunostimulants II – Herbal products, vitamins, new agents 11. Immunomodulator Use in Veterinary Medicine – Applications in dogs, cats, and farm animals 12. Adverse Effects and Drug Interactions of Immunomodulator Drugs 13. New Generation Immunotherapies – Cell-based therapies, gene therapies, cancer immunotherapies 14. General Review and Case Discussions – Clinical examples, rational use

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources	
Textbook	:
Resources	: Kuby Immunology,Kayaalp SO. Rasyonel Tedavi Yönünden Tıbbi Farmakoloji,Goodman & Gilman's The Pharmacological Basis of Therapeutics,Katz
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Giriş ve Temel Kavramlar – Bağışıklık sistemi, immün yanıtın ilaçlarla düzenlenmesi		
2	İmmünomodülasyonun Klinik Önemi – İnsan ve hayvan sağlığında kullanım alanları		
3	Kortikosteroidler – Mekanizma, farmakokinetik, klinik kullanım, yan etkiler		
4	Sitotoksik Ajanlar – Azatiyoprin, siklofosfamid vb.		
5	Kalsinörin İnhibitörleri – Siklosporin, takrolimus		
6	mTOR İnhibitörleri – Sirolimus, everolimus		
7	Biyojik Ajanlar I – Monoklonal antikorlar (anti-TNF, anti-IL ilaçlar vb.)		
8	Biyojik Ajanlar II – Sitokinler, interferonlar, interleukinler		
9	İmmünostimulanlar I – Aşı adjuvanları, bakteriyel ürünler		
10	İmmünostimulanlar II – Bitkisel ürünler, vitaminler, yeni ajanlar		
11	Veteriner Hekimlikte İmmünomodülatör Kullanımı – Köpek, kedi ve çiftlik hayvanlarında uygulamalar		
12	İmmünomodülatör İlaçların Advers Etkileri ve İlaç Etkileşimleri		
13	Yeni Nesil İmmünoterapiler – Hücre bazlı tedaviler, gen terapileri, kanser immünoterapileri		
14	Genel Değerlendirme ve Vaka Tartışmaları – Klinik örnekler, akılcı kullanım		

Recommended Optional Programme Components	
VET309 PHARMACOLOGY-I	
VET304 PHARMACOLOGY-II	

Course Learning Outcomes	
No	Learning Outcomes
C01	• Explains the mechanisms of immune system regulation by drugs. • Classifies immunosuppressive, immunostimulant, and immunomodulatory drugs. • Learns the mechanisms of action of corticoid

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	4	1	4
Presentation	4	1	4
Mid-terms	1	4	4
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	6	6
Total Work Load			60
ECTS Credit of the Course			2

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET348 DISEASE SYSTEM DISEASES OF CATS AND DOGS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET348	DISEASE SYSTEM DISEASES OF CATS AND DOGS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

In this course, it is aimed to teach the etiopathogenesis, clinical symptoms, diagnosis using modern laboratory and imaging methods, and current treatment approaches for diseases of the oral cavity, esophagus, stomach, intestines, liver, and pancreas in cats and dogs.

Teaching Methods and Techniques:

It covers the pathophysiological basis, differential diagnosis steps, and medical/dietary management of gastrointestinal tract, liver, and exocrine pancreatic diseases in cats and dogs.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Asist Prof.Dr. kerem ercan

Assistants:

Research Assist. Mahsum BAŞAK

Recommended Sources

Textbook	: Arıcan M.(2011) Veteriner Genel Radyoloji ve Kedi, Köpek için Tanısal Radyografi Atlası Cilt I Ceylan, E. (Ed.). (2025). Kedi köpek iç hastalıkları. Aka
Resources	: Aytuğ, N. (2021). Köpek ve kedilerin iç hastalıkları klinik el kitabı. Medipres.Malatya.
Documents	: İmren, H. Y. (1998). Kedi ve köpek hastalıkları. Medisan.Ankara.
Assignments	: Altan, Y., & Şendil, Ç. (1983). İç hastalıkları kliniğine giriş. İstanbul Üniversitesi Veteriner Fakültesi Yayınları.İstanbul.
Exams	: İmren, H. Y. (1985). Evcil hayvanların iç hastalıklarında klinik tanı. Ankara Üniversitesi Veteriner Fakültesi Yayınları.Ankara.
	Gül, Y. (2022). Veteriner iç hastalıklarında klinik muavene ve tanı yöntemleri. Nobel Tıp Kitabevleri. Ankara.

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Gastrointestinal Symptomatology (Vomiting, Diarrhea, Regurgitation)		
2	Diseases of the Oral Cavity and Salivary Glands		
3	Esophageal Diseases (Megaeosophagus and Esophagitis)		
4	Acute and Chronic Gastric Diseases (Gastritis, Ulcers)		
5	Gastric Dilatation-Volvulus (GDV) and Pyloric Stenosis		
6	Small Intestinal Diseases (IBD, Lymphangiectasia, PLE)		
7	Large Intestinal Diseases (Colitis, Megacolon)		
8	Midterm Exam		
9	Exocrine Pancreatic Insufficiency (EPI)		
10	Acute and Chronic Pancreatitis (Species Differences)		
11	Inflammatory Liver Diseases of Dogs		
12	Hepatobiliary Diseases of Cats (Lipidosis, Cholangitis)		
13	Vascular Liver Diseases (Portosystemic Shunts)		
14	Neoplasia of the Digestive System		
15	Enteral/Parenteral Nutrition in Digestive System Diseases		
16	Final Exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the pathophysiology and basic clinical signs of digestive system diseases in cats and dogs
C02	Performs differential diagnosis between small intestinal and large intestinal diarrhea.
C03	Applies the diagnostic algorithm in patients presenting with acute and chronic vomiting.
C04	Interprets biochemical tests and specific biomarkers (fPLP/cPLP, etc.) in liver and pancreatic diseases.
C05	Plans appropriate dietary and drug protocols for inflammatory bowel disease (IBD) and food sensitivities.
C06	Manages the clinical decision-making process in gastrointestinal emergencies (GDV, foreign bodies, etc.).
C07	Evaluates the importance of rational antibiotic use and probiotic support in digestive system patients.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	8	8
Total Work Load			58
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	2	4	3	5	4	3	4	2	5	4	3	1	1	5	5
C01	5	5	5	4	2	4	3	4	4	3	3	2	4	4	3	1	1	4	4
C02	5	4	5	5	2	4	3	5	4	3	3	2	5	4	3	1	1	5	5
C03	5	4	5	5	2	4	3	4	4	3	4	2	5	4	3	1	1	5	5
C04	5	5	5	5	2	4	3	4	4	3	3	2	5	3	3	1	1	5	5
C05	5	5	5	4	2	4	4	5	5	4	4	2	5	4	4	1	1	4	5
C06	5	4	5	5	2	3	3	3	4	3	5	3	5	4	4	1	1	5	4
C07	4	4	5	4	3	4	3	4	4	4	5	2	4	5	4	2	1	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET322 CLINICAL PRACTICE-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET322	CLINICAL PRACTICE-I	8	4	4

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

This course aims to enable students to apply theoretical knowledge acquired in clinical disciplines (Internal Medicine, Surgery, Obstetrics) on patients in a clinical setting, and to gain skills in performing systematic examinations, diagnostic testing, and case management.

Teaching Methods and Techniques:

The course includes practical applications covering patient admission in polyclinic and hospital environments, anamnesis taking, application of physical examination methods, laboratory sampling, and maintaining clinical records.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Asist Prof.Dr. kerem ercan

Assistants:

Research Assist. Mahsum BAŞAK

Recommended Sources	
Textbook	: 1. Introduction to Veterinary Internal Diseases, İmren H.Y., Ankara, 1994
Resources	: 2. Introduction to Internal Medicine Clinic, Atlan, Y., Şendil, Ç., İstanbul, 1983
Documents	: 3.Special Surgery, Samsar, E., Akin, F., Tamer Matbacılık, Ankara, 1998
Assignments	: 4. Clinical Examination, Başoğlu, A.Konya, 1998
Exams	: 5. External Diseases Introduction, Görgül, S., Seyrek-İntaş, D., U.Ü.Vet.Fak.Post, Bursa, 2004 6. Clinical Diagnosis Methods in External Diseases, Samsar, E., Akin, F.Ankara, 2000

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Obtaining anamnesis and signalement information of the patient, detailed examination of the patients using the primary ar		
2	Examination of the head organs, mouth, teeth, pharynx, larynx, esophagus and trachea, probing of the esophagus and tra		
3	Direct and otoscopic examination by cleaning the outer ear canal (Surgery)		
4	Urinary catheterization and cystosynthesis (Surgery)		
5	Injections and intravenous catheterization (Surgery)		
6	Laparotomy, gastrostomy, rumenotomy, enterotomy etc. operations (Surgery)		
7	Orthopedic examinations in dogs and cats (Surgery)		
8	General information about clinical diagnosis, some definitions, symptoms, general examination methods		
9	Special Examination Methods (microscopic examination, diagnostic operation, endoscopy, image diagnostic methods, etc.)		
10	General condition examination: body temperature, normal heat, fever and hyperthermia, hypothermia, febrile diseases. Lyr		
11	Examination of the skin: hair cover, skin color, humidity, odor, elasticity; lesions of the skin: itching, bloating, edema, empl		
12	Examination of the respiratory system: examination of the pharynx, larynx, trachea, lung, pleura		
13	Examination of the circulatory system: pulse, examination of the heart (auscultation, percussion, ECG), examination of bloc		
14	Examination of the digestive system: chewing, salivation, swallowing, mouth / pharynx mucosa, esophageal examination, r		
15	Praenesthetic monitoring and complications, anesthesia in animals at risk (Surgery)		
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines biosafety and animal welfare rules in the clinical working environment.
C02	Communicates effectively with the animal owner and takes a complete anamnesis.
C03	Independently performs systematic physical examination in different animal species.
C04	Selects appropriate diagnostic tests (blood, urine, imaging) in light of clinical findings.
C05	Synthesizes obtained clinical and laboratory data to perform differential diagnosis.
C06	Monitors the patient's clinical progress and professionally fills out patient follow-up forms.
C07	Cooperates with colleagues and auxiliary staff in solving clinical cases.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	0	%0	Course Duration	14	4	56
Quizzes	0	%0	Hours for off-the-c.r.stud	14	4	56
Assignment	0	%0	Assignments	0	0	0
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	0	0	0
Project	0	%0	Practice	0	0	0
Final examination	1	%100	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	8	8
			Total Work Load			120
			ECTS Credit of the Course			4

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	4	5	4	3	4	5	5	5	5	5	5	2	1	5	5
C01	5	4	4	4	4	5	5	3	3	5	5	4	4	5	5	2	1	4	4
C02	5	5	5	4	3	4	3	3	5	4	5	3	5	4	4	2	1	3	3
C03	5	4	5	5	3	4	4	4	4	4	4	5	5	5	4	2	1	5	4
C04	5	5	5	5	4	5	4	3	4	4	4	4	5	4	4	2	2	5	5
C05	5	5	5	5	4	5	4	4	5	4	4	5	5	5	5	2	1	5	5
C06	5	4	4	4	3	4	3	3	4	5	5	4	5	4	4	2	1	4	4
C07	4	5	4	4	4	4	4	3	4	5	5	4	4	4	4	3	1	4	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET370 NUTRITION OF LABORATORY ANIMALS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET370	NUTRITION OF LABORATORY ANIMALS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach the nutrient requirements of laboratory animals and to explain the effects of appropriate feeding practices on experimental studies.

Teaching Methods and Techniques:

Covers the nutrient requirements of laboratory animals and the effects of feeding practices on experimental studies.

Prerequisites:

Course Coordinator:

Instructors:

Prof.Dr. Tuncay TUFAN

Assistants:

Recommended Sources

Textbook	:	Genç, B. (2017). Laboratuvar Hayvanı Diyetleri ve Hayvan Besleme Bilimindeki Yeri. Lalahan Hayvancılık Araştırma Enstitüsü Dergisi, 57(2), 105-11
Resources	:	GENÇ, B. (2022). Laboratuvar Hayvanları Diyetlerinin Üretim, Depolama ve Teminindeki Sorunlar ve Hayvan Besleme Bilimi Çerçevesindeki Çözüm (
Documents	:	GENÇ, B. (2022). Laboratuvar Hayvanları Diyetlerinin Üretim, Depolama ve Teminindeki Sorunlar ve Hayvan Besleme Bilimi Çerçevesindeki Çözüm (
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	: 100

Course Content

Week	Topics	Study Materials	Materials
1	Introduction to laboratory animal production		
2	Digestive system and physiology in laboratory animals		
3	Nutrient requirements of laboratory animals		
4	Energy and protein requirements		
5	Vitamin and mineral requirements		
6	Laboratory animal feeds		
7	Nutrition of mice		
8	Midterm exam		
9	Nutrition of rats		
10	Nutrition of rabbits		
11	Nutrition of guinea pigs and hamsters		
12	Importance of nutrition in experimental studies		
13	Nutrition-related metabolic problems		
14	Special feeding practices in laboratory animals		
15	Ethics and welfare in laboratory animals		
16	Final exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the nutrient requirements of laboratory animals.
C02	Prepares appropriate feeding programs for laboratory animals.
C03	Evaluates the effects of nutrition on experimental results.
C04	Explains feed hygiene and feed safety in laboratory animals.
C05	Analyzes nutritional differences among laboratory animal species.
C06	Interprets nutrition-related health problems in laboratory animals.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			48
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
C01	4	4	4	4	3	3	4	4	5	3	3	5	4	5	5	5	3	3	3
C02	5	5	3	3	4	4	4	4	4	4	3	3	5	3	5	4	5	4	4
C03	4	4	4	5	5	3	4	5	5	3	5	5	3	4	4	5	4	5	4
C04	4	4	4	4	4	5	5	5	3	5	4	3	4	4	4	5	5	5	5
C05	3	5	5	4	5	3	5	5	5	5	5	5	5	5	5	5	5	4	3
C06	3	4	4	4	3	3	4	3	3	4	4	4	4	4	5	5	4	5	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET364 CLINICAL BIOCHEMISTRY OF LABORATORY ANIMALS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET364	CLINICAL BIOCHEMISTRY OF LABORATORY ANIMALS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seğmeli

Goals:

The purpose of this course is to provide students with a general understanding of the biochemical changes that occur in diseases and how these changes are identified.

Teaching Methods and Techniques:

The content of this course focuses on the analysis of the building blocks of living organisms using analytical techniques (such as spectroscopy, chromatography, and electroanalytical techniques), as well as the importance and applications of clinical biochemistry.

Prerequisites:

Course Coordinator:

Prof.Dr. Kıvanç İRAK

Instructors:

Prof.Dr. Kıvanç İRAK

Assistants:

Recommended Sources	
Textbook	: Marshall, W. J., & Bangert, S. K. (1995). Clinical biochemistry. Elsevier Health Sciences.
Resources	:
Documents	: Murray, R. K., Bender, D. A., Botham, K. M., Kennelly, P. J., Rodwell, V. W., & Weil, P. A. (2009). Harper's illustrated biochemistry (28th ed.). McG
Assignments	: K1. Marshall, W.,J., Bangert, S., K. 1995. Clinical Biochemistry. Elsevier Health Sciences.U.S.A. K2.R.K. Murray, D.A. Bender, K.M. Botham, P.J. Ken
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Definition of Clinical Biochemistry		K1. Marshall, W.,J., Bai
2	Biochemical sample collection techniques		K1. Marshall, W.,J., Bangert, S., K. 1995
3	Selection of biochemical parameters related to clinical conditions		K1. Marshall, W.,J., Bangert, S., K. 1995
4	Clinical biochemistry methods		K1. Marshall, W.,J., Bangert, S., K. 1995
5	Metabolic disorders		K1. Marshall, W.,J., Bangert, S., K. 1995
6	Protein metabolism disorders		K1. Marshall, W.,J., Bangert, S., K. 1995
7	Inherited disorders of purine and pyrimidine metabolism		K1. Marshall, W.,J., Bangert, S., K. 1995
8	Midterm exam		K1. Marshall, W.,J., Bangert, S., K. 1995
9	Lipid-lipoprotein metabolism disorders		K1. Marshall, W.,J., Bangert, S., K. 1995
10	Inherited disorders of carbohydrate metabolism		K1. Marshall, W.,J., Bangert, S., K. 1995
11	Mineral metabolism disorders		K1. Marshall, W.,J., Bangert, S., K. 1995
12	Enzymes in clinical biochemistry		K1. Marshall, W.,J., Bangert, S., K. 1995
13	Bilirubin metabolism disorders		K1. Marshall, W.,J., Bangert, S., K. 1995
14	Immunity and its importance		K1. Marshall, W.,J., Bangert, S., K. 1995
15	Immunity and its importance.		K1. Marshall, W.,J., Bangert, S., K. 1995
16	Midterm exam		K1. Marshall, W.,J., Bangert, S., K. 1995

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the physiological characteristics of clinical biochemical parameters in laboratory animals.
C02	Interprets sampling and analytical methods used in biochemical analyses of laboratory animals.
C03	Evaluates biological samples obtained from laboratory animals according to appropriate procedures.
C04	Analyzes biochemical findings related to organ functions in laboratory animals.
C05	Relates biochemical alterations observed in experimental models to disease mechanisms.
C06	Uses clinical biochemical data in experimental research.
C07	Evaluates current biochemical studies conducted on laboratory animals.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	16	16
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	16	16
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	4	5	5	4	4	4	4	5	3	5	2	2	5	5	5	5
C01	5	5	4	3	5	5	3	3	2	4	2	3	4	2	3	4	4	4	5
C02	4	4	5	4	5	5	4	4	3	3	5	2	5	2	2	4	5	4	5
C03	4	4	5	5	5	5	4	4	4	3	5	2	5	2	2	5	5	5	5
C04	4	4	5	4	5	5	4	4	4	4	5	3	5	2	2	4	5	5	5
C05	4	4	5	4	5	5	5	4	4	4	5	3	5	2	2	5	5	5	5
C06	4	4	5	4	5	5	4	4	4	4	5	3	5	2	2	5	5	5	5
C07	5	5	4	4	4	4	4	4	3	3	5	2	4	2	2	5	4	4	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET344 PROFESSIONAL ENGLISH-VI					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET344	PROFESSIONAL ENGLISH-VI	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach students the general terminology in English and Turkish equivalents in related fields .To gain the ability to understand the parts related to the profession.

Teaching Methods and Techniques:

This course is a continuation of the vocational English V course, where students are taught the general terminology in English and Turkish equivalents and the ability to understand the parts of the profession.

Prerequisites:

Course Coordinator:

Asist. Prof.Dr. Ayfer FINDIK PAKROOH

Instructors:

Assistants:

Recommended Sources	
Textbook	: Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Resources	: Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
2	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
3	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
4	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
5	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
6	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
7	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
8	Midterm exam	Course of the study subjects planned to	Medical Passages & Vocabulary for UDS
9	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
10	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
11	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
12	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
13	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
14	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
15	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS

Course Learning Outcomes	
No	Learning Outcomes
C01	Learning English terminology that can be encountered throughout the professional life
C02	To gain the ability to understand medical articles at intermediate and advanced levels

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET306 PATHOLOGY-III					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET306	PATHOLOGY-III	4	4	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to teach the etiology, pathogenesis, macroscopic and microscopic findings of diseases affecting the nervous, cardiovascular, hematopoietic, urinary, genital, and integumentary systems in veterinary medicine and to enable students to correlate these findings with clinical data.

Teaching Methods and Techniques:

This course covers infectious, inflammatory, degenerative, and neoplastic diseases of the nervous, cardiovascular, hematopoietic, urinary, genital, and integumentary systems through a systematic approach. The pathogenesis, macroscopic, and histopathological findings of these diseases are evaluated.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Özgür Özöner

Instructors:

Asist Prof.Dr. Özgür Özöner Asist Prof.Dr. İhsan İşbilir

Assistants:

Research Assist. Betül Orhan

Recommended Sources	
Textbook	: Veterinary Systemic Pathology – Lecture Notes
Resources	: Veterinary Pathology, Volume I and II (R. Hazroğlu & Ü. H. Milli)
Documents	: Pathology of Domestic Animals, Volume I, II, III.(Jubb, Kennedy, Palmer) ,Pathologic Basis of Veterinary Disease (McGavin, MD, Zay, JF)
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	nervous system pathology	Introduction to the nervous system; str	Erer, H., Ciftci, M. K., Ortatatlı, M., Hatir
2	nervous system pathology	Histology of the nervous system; neuror	Erer, H., Ciftci, M. K., Ortatatlı, M., Hatir
3	nervous system pathology	Viral diseases of the CNS	Erer, H., Ciftci, M. K., Ortatatlı, M., Hatir
4	Urinary system pathology	Urinary system; renal diseases	Erer, H., Ciftci, M. K., Ortatatlı, M., Hatir
5	Urinary system pathology	Urinary system; renal diseases	Erer, H., Ciftci, M. K., Ortatatlı, M., Hatir
6	Female genital system pathology	Female genital system; uterus, ovary, ai	116Erer, H., Ciftci, M. K., Ortatatlı, M., f
7	Female genital system pathology	Female genital system; uterus, ovary, ai	116Erer, H., Ciftci, M. K., Ortatatlı, M., Hatir
8	Midterm		
9	Male genital system pathology	Male genital system; testis and accessor	Erer, H., Ciftci, M. K., Ortatatlı, M., Hatir
10	Skin and its appendages pathology	Skin diseases	Erer, H., Ciftci, M. K., Ortatatlı, M., Hatir
11	Cardiovascular system pathology	Diseases of the cardiovascular system (e	Erer, H., Ciftci, M. K., Ortatatlı, M., Hatir
12	Haematopoietic and lymphatic system pathology	Hematopoietic system; anemias and her	Erer, H., Ciftci, M. K., Ortatatlı, M., Hatir
13	Haematopoietic and lymphatic system pathology	Pathology of spleen and lymph nodes	Erer, H., Ciftci, M. K., Ortatatlı, M., Hatir
14	Endocrines system, eye and ear pathology	Research on the subject	Erer, H., Ciftci, M. K., Ortatatlı, M., Hatir
15	Endocrine system, eye and ear pathology	Research on the subject	Veteriner Sistemik Patoloji- Ders Notu V
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the basic concepts and pathogenesis of diseases affecting the nervous, cardiovascular, hematopoietic, urinary, genital, and integumentary systems.
C02	Describes the macroscopic and microscopic pathological findings of these organ systems.
C03	Analyzes pathological findings of systemic diseases.
C04	Evaluates histopathological findings to differentiate various disease processes.
C05	Performs differential diagnosis between neoplastic and non-neoplastic lesions.
C06	Interprets pathological findings by correlating them with clinical data.
C07	Develops a systematic approach for the evaluation of diseases affecting different organ systems.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
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P12	All surgical interventions in the field of scientific methods and meticulous
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P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	0	0	0
Assignment	0	%0	Assignments	0	0	0
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	1	10	10
Project	0	%0	Practice	14	2	28
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	10	10
			Total Work Load			76
			ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	4	2	4	4	5	4	4	4	3	5	3	3	2	4	4	4
C01	4	4	5	4	2	4	4	5	4	4	4	3	4	3	3	2	4	4	4
C02	4	4	5	4	4	4	4	5	4	4	4	3	4	3	3	2	4	4	4
C03	4	4	5	4	4	4	4	5	5	4	4	3	5	3	3	2	4	4	4
C04	4	4	5	4	3	4	4	5	5	4	4	3	5	3	3	1	4	4	4
C05	4	4	5	4	3	4	4	5	5	4	4	3	5	4	3	1	4	4	4
C06	4	4	5	4	4	4	4	5	4	4	4	3	5	4	3	2	4	4	4
C07	4	4	5	4	3	4	4	5	4	5	4	3	5	4	3	1	4	4	4

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
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P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
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P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		%0

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			0
ECTS Credit of the Course			0

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant



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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET346 LIQUID -ELECTROLITE TREATMENT					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET346	LIQUID -ELECTROLITE TREATMENT	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

Transfer of fluid and electrolyte treatment to the student

Teaching Methods and Techniques:

Evaluation of liquid treatment methods in terms of internal diseases.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources

Textbook	:	liquid treatment, Tank BİLAL
Resources	:	sıvı sağaltımım, Tank BİLAL
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Distribution and dehydration of body fluids		
2	Sodium balance, hypernatremia, hyponatremia, vasopressin, polyuria, polydipsia		
3	Hyperchloreaemia, hypocalcemia, hypokalemia, hyperkalemia		
4	Parathyroid hormone, vitamin D, calcitonin, hypercalcemia, hypocalcemia, hypoparathyroidism		
5	Hypophosphatemia, hyperphosphatemia, hypomagnesemia, hypermagnesemia		
6	Acid base balance, acidosis, respiratory acidosis, metabolic acidosis, mixed acidosis		
7	Alkalosis, metabolic alkalosis, respiratory alkalosis		
8	Midterm		
9	Powerful ion model		
10	Liquid treatment and infusion routes		
11	Infusion solutions		
12	Liquid treatment in calves, acute viral calves diarrhea, diarrhea cases caused by protozoa, bacterial diarrhea cases		
13	Fluid-electrolyte and acid-base balance disorders in dogs and cats, fluid selection in vomiting and diarrhea, monitoring of fl		
14	Liquid-electrolyte and acid-base balance in diseases: acute renal failure, chronic renal failure, gastric dilatation-volvulus, ac		
15	Fluid treatment in adult ruminants: Acute diarrhea, rumen acidosis, alkalosis, ketosis, pregnancy toxemia in sheep		

Course Learning Outcomes

No Learning Outcomes

C01 The student learns the methods and theory of fluid and electrolyte treatment.

Program Learning Outcomes

No Learning Outcome

P04 Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17 Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13 In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09 Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03 The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02 Contains up to date information in the field of textbooks, magazines and follow the web site
P01 Understand the relationships between concepts and concepts related to the field
P16 Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18 The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15 Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12 All surgical interventions in the field of scientific methods and meticulous
P11 Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08 In animal breeding and feeding areas will have theoretical and practical knowledge
P07 Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06 Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05 Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10 Understand the national and international legislation about the area
P14 Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19 Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment	Quantity	Percentage
In-Term Studies		
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	15	1	15
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	5	5
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			30
ECTS Credit of the Course			1

Course Contribution To Program

[illegible][illegible][illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET328 WATER PRODUCTS AND DISEASES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET328	WATER PRODUCTS AND DISEASES	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of the course is to provide students with knowledge of the basic biological characteristics of fish and other aquatic organisms important in aquaculture, as well as the causes, signs, and control of diseases observed in these species.

Teaching Methods and Techniques:

This course covers infectious and non-infectious diseases of aquatic organisms, causative agents, diagnosis, and prevention-control methods.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Burçak ASLAN ÇELİK

Instructors:

Asist Prof.Dr. Muhammed Ahmed SELÇUK

Assistants:

Recommended Sources	
Textbook	: Woo, P. T. K., & Bruno, D. W. (1999). Fish diseases and disorders: Vol. 3. Viral, bacterial and fungal infections. CABI Publishing.
Resources	: Buller, N. B. (2004). Bacteria from fish and other aquatic animals. CABI Publishing.
Documents	: Arda, M., Seçer, S., & Sarıyüboğlu, M. (2005). Fish diseases. Medisan Publishing.
Assignments	: Pike, A. W., & Lewis, J. W. (1994). Parasitic diseases of fish. Samara Publishing Ltd.
Exams	: Roberts, R. J. (2001). Fish pathology. W. B. Saunders Harcourt Publishers Ltd. Erer, H. (2002). Fish diseases. Selçuk University Press.

Course Category	
Mathematics and Basic Sciences :	Education :
Engineering :	Science :
Engineering Design :	Health : 100
Social Sciences :	Field :

Course Content		
Week	Topics	Study Materials
1	Basic biological and physiological characteristics of aquatic organisms.	
2	Basic principles of rainbow trout, seabream and seabass production.	
3	Basic principles of shrimp, mussel, oyster, crayfish and lobster production.	
4	Systematic examination methods in fish diseases; antemortem, postmortem, external and visceral examinations.	
5	Transport of diseased fish and tissue samples to the laboratory for diagnosis.	
6	Furunculosis, columnaris disease, peduncle disease, bacterial gill disease and bacterial fin disease.	
7	Bacterial kidney disease, bacterial hemorrhagic septicemia, vibriosis, tuberculosis, enteric redmouth disease, streptococcosis	
8	Midterm examination	
9	Enteric redmouth disease, streptococcosis and lactococcosis; diagnosis, treatment, prevention and control.	
10	Viral hemorrhagic septicemia, infectious pancreatic necrosis, infectious hematopoietic necrosis and spring viremia of carp.	
11	Infectious salmon anemia, swim bladder inflammation, channel catfish disease, lymphocystis, cauliflower disease and fish r	
12	Fungal diseases and nutritional, toxic and non-infectious diseases in fish.	
13	Protozoan infections in freshwater and marine fish.	
14	Diseases caused by Platyhelminthes and Nematelminthes in freshwater and marine fish.	
15	Protozoan, Platyhelminthes and Nematelminthes infections in crustaceans and arthropods.	
16	Final examination	

Course Learning Outcomes	
No	Learning Outcomes
C01	Define the basic concepts and classification of aquatic animal diseases.
C02	Explain the general characteristics of infectious and non-infectious diseases observed in fish and other aquatic organisms.
C03	Compare bacterial, viral, fungal, and parasitic agents causing diseases in aquatic organisms.
C04	Apply basic diagnostic methods used in aquatic animal diseases.
C05	Explain environmental and aquaculture-related factors affecting disease occurrence.
C06	Apply prevention and control approaches for aquatic animal diseases.
C07	Explain knowledge of aquatic animal diseases using scientific terminology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			30
ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	5	4	4	5	4	5	4	3	3	5	4	5	3	3	5	5
C01	5	4	4	3	4	3	5	4	3	5	2	3	4	3	4	2	3	3	4
C02	4	5	5	3	4	4	5	3	5	4	3	2	4	4	3	3	3	4	5
C03	5	2	5	4	3	5	5	4	4	4	3	3	5	4	5	3	2	5	5
C04	4	4	5	5	2	5	4	3	3	4	3	3	5	4	4	3	3	5	5
C05	4	3	5	4	5	4	4	5	5	3	2	2	4	3	5	3	3	4	4
C06	5	4	4	3	4	5	5	4	5	3	3	3	5	5	5	2	3	4	5
C07	5	5	4	3	3	4	4	2	3	5	4	3	4	3	3	3	3	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET330 TOPOGRAPHIC ANATOMY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	VET330	TOPOGRAPHIC ANATOMY	3	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to teach the regional localization of anatomical structures in the animal body and their topographic relationships with each other, and to enable students to gain anatomical evaluation skills required in clinical, surgical, and diagnostic applications.

Teaching Methods and Techniques:

This course covers the regional relationships, surface anatomy, topographic organization, and clinically important anatomical structures of the head, neck, thorax, abdomen, pelvis, and extremities. In addition, neighboring relationships of organ systems are examined through practical applications.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Fatma İŞBİLİR

Instructors:

Associate Prof.Dr. Fatma İŞBİLİR Associate Prof. Dr. Barış Can GÜZEL

Assistants:

Research Assist. Muhammed Zahid ATLI

Recommended Sources	
Textbook	: 1. Dursun, N.(2008). Veteriner Topografik Anatomi. Medisan Yayınevi, Ankara. 2. Yıldız, H., Yıldız, B., Bahadır, A. (2003). U.Ü. Vet.Fak.Yay., Bursa.
Resources	: Dyce, K.M., Sack, W.O., Wensing, C.J.G. Textbook of Veterinary Anatomy, 5th Edition, Elsevier, 2017
Documents	: Dyce, K.M., Sack, W.O., Wensing, C.J.G. Textbook of Veterinary Anatomy, 5th Edition, Elsevier, 2017.
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 100
Social Sciences	: 0	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Regiones faciei	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
2	Regiones colli	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
3	Regio scapularis	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
4	Regio costalis	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
5	Regio celiac	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
6	Regiones dorsi	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
7	Regiones abdominis	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
8	MID EXAM		
9	Regio pelvis	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
10	Regio pelvis	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
11	Regio glutea	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
12	Regio perinealis	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
13	Regio inguinalis	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
14	Regiones membri thoracici	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
15	Regiones membri pelvini	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf	Course of the study subjects planned to 1. Dursun, N.(2008). Veteriner Topograf
16	Final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines the regional localization and topographic relationships of anatomical structures in the animal body.
C02	Explains the characteristics of anatomical regions related to the head, neck, thorax, abdomen, pelvis, and extremities.
C03	Compares neighboring relationships and regional organization of organ systems.
C04	Relates topographic anatomical knowledge to clinical examination and surgical applications.
C05	Analyzes the topographic positions of anatomical structures in imaging modalities.
C06	Acts in accordance with ethical principles and laboratory safety rules in topographic anatomy practices.
C07	Expresses knowledge related to topographic anatomy verbally and in writing using scientific terminology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	8	8
Total Work Load			72
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	4	3	4	4	4	5	5	5	5	3	3	3	5	5	4	4	4
C01	5	5	5	4	3	5	5	3	4	4	5	3	5	5	5	5	5	4	4
C02	4	4	3	3	3	5	5	5	4	5	5	5	4	5	5	4	3	4	5
C03	4	5	5	4	4	5	5	5	5	3	3	3	4	4	4	4	4	4	4
C04	3	3	3	5	5	4	5	5	3	5	4	3	4	3	5	5	4	4	4
C05	4	4	5	3	5	4	3	2	4	5	3	5	5	5	5	4	3	5	4
C06	5	4	3	5	5	4	3	5	4	5	3	5	4	5	4	5	4	5	3
C07	5	4	5	3	4	5	5	4	4	4	4	5	5	3	5	4	5	4	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

STJ302 COMPULSORY SUMMER INTERNSHIP-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
6	STJ302	COMPULSORY SUMMER INTERNSHIP-I	0	0	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

Siirt University Veterinary Faculty to improve the knowledge and skills of students, to increase their professional visibility

Teaching Methods and Techniques:

to increase students' knowledge and skills in participating in routine applications made in selected institutions

Prerequisites:

Course Coordinator:

Prof.Dr. Tekin ŞAHİN

Instructors:

Assistants:

Recommended Sources

Textbook	:	veterinary faculty textbooks
Resources	:	veterinary faculty textbooks.
Documents	:	Veteriner Fakültesi ders kitapları
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
2	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
3	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
4	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
5	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
6	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
7	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
8	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
9	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
10	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
11	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
12	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
13	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
14	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.

Course Learning Outcomes

No	Learning Outcomes
C01	Siirt University Veterinary Faculty to improve the knowledge and skills of students, to increase their professional visibility

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows; located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%20
Practice	0	%80
Project	0	%0
Final examination	0	%0
Total		%100

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET447 Andrology					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET447	Andrology	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The objective of this course is to provide students with comprehensive knowledge about the reproductive anatomy, physiology, endocrinology, and reproductive system diseases of male domestic animals, and to equip them with practical skills for clinical examination, infertility diagnosis, and treatment methods in male animals.

Teaching Methods and Techniques:

There is no prerequisite for the course. Anatomy and physiology of male reproductive organs, spermatogenesis and endocrine control, clinical andrological examination in male animals, semen collection methods, semen examination, male reproductive system diseases, and causes of infertility.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Ahmet ESER

Instructors:

Asist Prof.Dr. Ahmet ESERAsist Prof.Dr. Aslıhan ÇAKIR CİHANGİROĞLU

Assistants:

Research Assist. Abdurrahman ALAKUŞResearch Assist. Kemal BAĞCI

Recommended Sources	
Textbook	: Alaçam, E. (Editör). Evcil Hayvanlarda Reprodüksiyon, Suni Tohumlama, Doğum ve İnfertilite. Medisan Yayınevi. 2. Noakes, D. E., Parkinson, T. J.,
Resources	: Biotechnology For Livestock Production Prepared. Fao. Pp.: 1-42, 63-120.,Hayvanlarda Reprodüksiyon, Androloji ve Yardımcı Üreme Teknikleri Ankara
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Male Reproductive System	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
2	Examination of Male Reproductive System	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
3	Examination of Andrology System and Infertility	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
4	Examination of Spermatozoon Morphology	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
5	Spermatozoa and Fertilization	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
6	Semen Collection Methods	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
7	Semen Examination	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
8	Midterm Exam		
9	Cryopreservation of Sperm	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
10	Hereditary Diseases and Congenital Anomalies	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
11	Management of Male Breeders	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
12	Reproductive Control in Male Animals	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
13	Sex Determination in Spermatozoa	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
14	Reproduction and Animal Welfare	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
15	Emergency Andrological Diseases and Their Treatments	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
16	End-of-Term Exam	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explain the reproductive physiology and endocrinology of male domestic animals.
C02	Describe the process and stages of spermatogenesis in different animal species.
C03	Perform semen collection and spermatological examination techniques in a laboratory setting.
C04	Apply andrological clinical examination methods on male animals in the field.
C05	Analyze male reproductive system diseases and infertility problems using clinical data.
C06	Develop appropriate treatment and herd management strategies for andrological cases.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
C01	5	5	5	5	1	1	5	2	3	5	5	2	4	4	2	4	1	2	3
C02	5	5	5	5	2	1	3	2	1	5	4	1	2	3	2	4	1	3	2
C03	5	5	5	5	1	2	2	1	1	5	3	2	4	4	3	5	1	5	5
C04	5	5	5	5	1	3	4	1	3	5	3	3	5	4	4	5	1	4	4
C05	5	5	5	5	2	5	5	2	2	5	3	3	5	5	4	5	1	4	4
C06	5	5	5	5	1	5	4	3	4	5	3	2	4	5	4	5	1	4	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET411 FOOD HYGIENE					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET411	FOOD HYGIENE	3	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to provide students with fundamental knowledge of food chemistry, food microbiology, food safety, and food hygiene, and to enable them to evaluate food-borne risks.

Teaching Methods and Techniques:

The course includes basic concepts of food chemistry, microbial ecology of foods, pathogenesis of food-borne infections and intoxications, food-borne pathogenic bacteria, viruses, prions and parasites, food spoilage, food preservation methods, food allergies, and cleaning, sanitation, and HACCP applications.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Kübranur YILDIZ BAYHAN

Instructors:

Asist Prof.Dr. Kübranur YILDIZ BAYHAN

Assistants:

Recommended Sources	
Textbook	: 1) Erol, İ. (2007). Gıda Hijyeni ve Mikrobiyolojisi. Ankara.
Resources	: 2) Heperkan, D. (2014). Gıdalarda Mikotoksinler. Sidas
Documents	: 3) Kutluay Merdol, T.; Beyhan, Y.; Çiğirim, N.; Sağlam, F.; Tayfur, M.; Baş, M.; Dağ, A. (2003). Toplu Beslenme Yapılan Kurumlarda Çalışan Perso
Assignments	: 1) Erol, İ. (2007). Gıda Hijyeni ve Mikrobiyolojisi. Ankara. 2) Heperkan, D. (2014). Gıdalarda Mikotoksinler. Sidas
Exams	: 1) Erol, İ. (2007). Gıda Hijyeni ve Mikrobiyolojisi. Ankara. 2) Heperkan, D. (2014). Gıdalarda Mikotoksinler. Sidas 3) Kutluay Merdol, T.; Beyhan, Y.

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 60
Social Sciences	:	Field	: 40

Course Content			
Week	Topics	Study Materials	Materials
1	Definitions and Food Chemistry	The subjects of the future week have been	
2	Food Chemistry	The subjects of the future week have been	
3	Microbial Ecology of Foods	The subjects of the future week have been	
4	Pathogenesis of Food-borne Infections and Intoxications	The subjects of the future week have been	
5	Food-borne Pathogenic Bacteria	The subjects of the future week have been	
6	Food-borne Pathogenic Bacteria	The subjects of the future week have been	
7	Food-borne Pathogenic Bacteria	The subjects of the future week have been	
8	Midterm examination		
9	Food-borne Viruses and Prions	The subjects of the future week have been	
10	Food-borne Parasites	The subjects of the future week have been	
11	Food Spoilage	The subjects of the future week have been	
12	Food Preservation	The subjects of the future week have been	
13	Food Preservation	The subjects of the future week have been	
14	Food Allergies	The subjects of the future week have been	
15	Cleaning, Sanitation and HACCP	The subjects of the future week have been	
16	Mid-term exam	The final lesson.	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the basic concepts within the scope of the food hygiene course.
C02	Evaluates the microbial ecology of foods and the factors affecting microbial growth.
C03	Explains the mechanisms of food-borne infections and intoxications.
C04	Identifies food-borne bacteria, viruses, prions, and parasites and evaluates their importance in public health.
C05	Explains food spoilage and the factors causing spoilage.
C06	Compares food preservation methods and evaluates them in terms of food safety.
C07	Explains food allergies and their importance in public health.
C08	Explains the importance of cleaning, sanitation, and HACCP practices in terms of food safety.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	8	3	24
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	14	14
Practice	14	1	14
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	2	2	5	2	4	1	1	4	1	1	2	1	5	1	4	3	3
C01	5	5	2	2	5	2	4	1	1	4	1	1	2	1	5	1	3	2	2
C02	5	5	2	2	5	2	4	1	1	4	1	1	2	1	5	1	4	3	3
C03	5	5	3	2	5	2	5	1	1	4	1	1	2	1	5	1	5	3	3
C04	5	5	3	2	5	2	5	1	1	4	1	1	3	1	5	1	4	3	4
C05	5	5	2	2	5	2	4	1	1	4	1	1	2	1	5	1	3	2	1
C06	5	5	2	2	5	2	4	1	1	4	1	1	2	1	5	1	5	2	2
C07	5	5	2	2	5	2	4	1	1	4	1	1	2	1	5	1	4	2	2
C08	5	5	2	2	5	2	4	1	1	4	1	1	2	1	5	1	5	3	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET401 SURGERY-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET401	SURGERY-II	3	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to enable students to analyze locomotor system diseases (lameness, joint, tendon, and nerve disorders) within veterinary surgery, to establish diagnosis, and to apply appropriate medical and surgical treatment approaches.

Teaching Methods and Techniques:

This course focuses on locomotor system disorders in veterinary surgery, including lameness, joint inflammations, bursitis, tendon and tendon sheath diseases, nerve paralysis, conformational disorders, exostoses, and muscular diseases, covering their etiopathogenesis, diagnosis, and medical/surgical treatment approaches.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Banş AKGÜL

Instructors:

Asist Prof.Dr. Kadir SULLU

Assistants:

Research Assist. Bahar ERDEN

Recommended Sources	
Textbook	: Kaya, M. (2004). Small Animal Surgery I: Lecture Notes. Bursa: Uludağ University Faculty of Veterinary Medicine.
Resources	: Fossum, T. W. (2013). Small Animal Surgery (4th ed.). Ankara: Medipres.
Documents	: İzci, C. (2018). Foot Diseases and Lameness Control in Cattle. Konya: Selçuk University Press.
Assignments	: Samsar, E. (2000). General surgery (external diseases).
Exams	: Aslanbey, D., & Candaş, A. (1987). Veterinary special operations. Auer, J. A., Stick, J. A., Kümmeler, J. M., & Prange, T. (2019). Equine surgery (5th ed.). Elsevier..Fubini, S. L., & Ducharme, N. G. (2004). Farm an

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Concept and classification of lameness		
2	Joint inflammations I (Omarthritis, Coxitis, Coxarthrosis)		
3	Joint inflammations II (Carpitis, Gonitis, elbow and tarsal arthritis, OCD)		
4	Bursitis and general characteristics		
5	Bursitis in forelimbs and hindlimbs (clinical presentations)		
6	Tendon and tendon sheath diseases I (Tendinitis, Tendovaginitis)		
7	Tendon ruptures and muscle injuries		
8	Midterm Exam		
9	Nerve paralysis I (Suprascapular, brachial plexus, radial nerve)		
10	Nerve paralysis II (Tibial, fibular, sciatic, obturator nerves, Wobbler syndrome, spastic paresis)		
11	Conformational disorders (Argure, Bouleture, Arthrogyrosis)		
12	Exostoses I (Osselet, Splint, Bone spavin)		
13	Exostoses II (Jard, Hydarthrosis, Caplet, Curb, Sore shin)		
14	Muscle diseases (Myasthenia gravis, Azoturia)		
15	Clinical approach, differential diagnosis, and treatment planning		
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains basic clinical knowledge related to lameness, joint diseases, and bursitis.
C02	Applies diagnostic methods used in tendon, tendon sheath, and muscle diseases.
C03	Determines appropriate surgical approaches in nerve paralyses and conformational disorders.
C04	Evaluates clinical findings related to exostoses and muscle diseases.
C05	Acts in accordance with ethical rules and animal welfare principles in surgical orthopedic diseases.
C06	Interprets findings related to clinical approach, differential diagnosis, and treatment planning.
C07	Analyzes scientific data related to surgical orthopedic diseases.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	3	3
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	3	3
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	3	5	4	3	5	4	4	3	3	3	4	5	2	2	1	4	3	3
C01	4	3	5	3	2	4	3	4	2	2	2	4	4	1	1	1	2	2	2
C02	4	2	5	5	3	5	3	4	3	2	2	5	5	2	1	1	3	3	3
C03	4	2	5	5	3	5	3	4	3	2	2	5	5	2	1	1	3	3	3
C04	4	3	5	4	3	5	4	4	4	3	2	4	5	2	2	1	4	3	3
C05	3	2	4	3	3	4	3	3	3	4	5	3	4	2	2	1	2	2	2
C06	4	3	5	4	3	5	4	4	4	3	2	4	5	2	2	1	5	4	5
C07	4	5	4	3	2	4	3	3	3	3	3	3	4	2	2	2	5	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET403		BIRTH-I			
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET403	BIRTH-I	3	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to enable students in the field of veterinary medicine to acquire fundamental knowledge and skills regarding the female reproductive anatomy, reproductive physiology, reproductive control, pregnancy physiology, and pregnancy diagnosis processes of domestic animals.

Teaching Methods and Techniques:

The course content includes the anatomy and physiology of female genital organs, reproductive regulation according to animal species, pregnancy diagnosis, pregnancy physiology, and pregnancy pathology.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Öznur YILMAZ KOÇ

Instructors:

Asist Prof.Dr. Öznur YILMAZ KOÇ

Assistants:

Research Assist. Merve BULUT

Recommended Sources

Textbook	:	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
Resources	:	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	: 0

Course Content

Week	Topics	Study Materials	Materials
1	Introduction to obstetrics and basic concepts	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
2	Anatomy of the female reproductive system	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
3	Reproductive physiology in domestic animals - Puberty and sexual cycles in cows.	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
4	Reproductive physiology in domestic animals - Puberty and sexual cycles in mares.	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
5	Reproductive physiology in domestic animals - Puberty and sexual cycles in sheep and goats.	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
6	Reproductive physiology in domestic animals - Puberty and sexual cycles in cats and dogs.	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
7	Controlling reproduction in cows	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
8	Midterm Exam		
9	Controlling reproduction in mares	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
10	Controlling reproduction in sheep and goats	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
11	Controlling reproduction in cat and dogs	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
12	Pregnancy pathology in domestic animals	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
13	Examination of female reproductive organs	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
14	Pregnancy physiology in domestic animals	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
15	pregnancy diagnosis and methods in domestic animal	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
16	Final Exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the causes and formation processes of animal diseases.
C02	Applies diagnostic methods used in animal diseases.
C03	Evaluates treatment and prevention methods of animal diseases.
C04	Performs proper sampling techniques from animals
C05	Interprets laboratory analysis results related to animal diseases.
C06	Adopts ethical principles related to animal health and welfare.
C07	Analyzes the economic and social impacts of animal diseases.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	3	5	4	4	5	5	4	4	3	3	4	5	5	4	4	5	5	5
C01	4	3	5	3	4	5	5	4	4	2	2	3	4	4	3	3	4	4	4
C02	3	3	5	5	4	5	5	3	4	3	2	4	5	5	3	4	5	5	5
C03	3	3	5	4	4	5	5	4	5	3	3	4	5	5	3	4	5	5	5
C04	3	3	5	4	4	5	5	4	5	3	3	3	5	5	4	4	4	4	4
C05	3	2	4	5	4	4	5	3	4	2	2	4	5	5	3	4	5	5	5
C06	4	4	3	3	4	4	3	5	4	4	5	3	4	4	5	4	3	3	3
C07	4	4	4	3	5	5	4	4	5	4	4	3	5	5	5	4	4	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET459 DOPING DRUGS AND THEIR USE IN THE VETERINARY FIELD					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET459	DOPING DRUGS AND THEIR USE IN THE VETERINARY FIELD	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To teach the pharmacological properties of doping drugs, their intended use in animals, their physiological and toxicological effects, ethical and legal problems in racing and sport animals, laboratory detection methods and preventive medicine practices.

Teaching Methods and Techniques:

• The concept of doping, its historical development, and its importance • Reasons for doping practices in veterinary medicine • Drug groups used in doping (steroids, stimulants, analgesics, hormones, etc.) • Doping substances commonly used in racing animals • Physiological and toxicological effects • Detection methods of doping drugs (biological sampling, laboratory analyses) • National and international regulations (WADA, FEI, IFHA, Turkish Jockey Club regulations) • Ethical aspects, animal welfare, and veterinarians' responsibilities • Doping prevention, education, and preventive medicine

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources

Textbook	:	
Resources	:	Higgins AJ, Wright IM. The Equine Manual (doping ve yarış atı bölümleri),Lees P, Toutain PL. Pharmacology of Drugs Used in Veterinary Sports Mex
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:		Education	:	
Engineering	:		Science	:	
Engineering Design	:		Health	:	100
Social Sciences	:		Field	:	

Course Content

Week	Topics	Study Materials	Materials
1	Doping kavramı ve tarihçesi: İnsan ve hayvanlarda doping		
2	Veteriner sahada doping ilaçlarının kullanım amaçları		
3	Uyarıcı ilaçlar (stimulanlar) ve hayvanlardaki etkileri		
4	Anabolik steroidler ve büyüme hormonları		
5	Analjezikler ve antiinflamatuvar ilaçlar		
6	Sedatif ve sakinleştirici ilaçların doping amaçlı kullanımı		
7	Kan parametrelerini etkileyen ilaçlar (eritropoietin, kan dopingi vb.)		
8	Diüretikler ve maskeliyici maddeler		
9	Yarış ve spor hayvanlarında en sık görülen doping uygulamaları		
10	Biyolojik numune alma (kan, idrar, saç/kıl, tükürük) yöntemleri		
11	Laboratuvar analiz yöntemleri (ELISA, LC-MS/MS, kromatografi vb.)		
12	Ulusal ve uluslararası düzenlemeler (WADA, FEI, IFHA, TJK vb.)		
13	Etik sorunlar, hayvan refahı ve veteriner hekimin sorumlulukları		
14	Vaka tartışmaları ve saha uygulamaları (örnek olay analizleri)		

Recommended Optional Programme Components

VET309 PHARMACOLOGY-I

VET304 PHARMACOLOGY-II

VET415 TOXICOLOGY AND ENVIRONMENTAL PROTECTION

Course Learning Outcomes

No	Learning Outcomes
C01	• Explains the concept of doping and its historical development. • Analyzes the reasons for the use of doping drugs in veterinary medicine. • Classifies the drug groups used for doping purposes (st

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	7	1	7
Assignment	0	%0	Assignments	7	1	7
Attendance	0	%0	Presentation	7	1	7
Practice	0	%0	Mid-terms	1	4	4
Project	0	%0	Practice	0	0	0
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	7	7
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	5	4	5	4	5	4	5	4	4	5	4	5	4	5	4	5	4	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET407 REPRODUCTION AND ARTIFICIAL INSEMINATION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET407	REPRODUCTION AND ARTIFICIAL INSEMINATION	3	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

Teaching of artificial inseminations in domestic animals, evaluation of semen by microsocbic and macroscopic methods, practise in semen freezing, synchronization of estrus, estrus detection, usage of hormones

Teaching Methods and Techniques:

There is no prerequisite for the course. At the end of this course; Reproduction in cases of pet anatomical , hormonal, physiological and semen and sperm production technologies will gain the ability to solve problems experienced in growth will have information about . It will also acquire the knowledge and skills necessary for optimal fertility in domestic animals .

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Ahmet ESER

Instructors:

Asist Prof.Dr. Ahmet ESER Asist Prof.Dr. Aslıhan ÇAKIR CİHANGİROĞLU

Assistants:

Research Assist. Kemal BAĞCIResearch Assist. Abdurrahman ALAKUŞ

Recommended Sources	
Textbook	: Evcil Hayvanlarda Reprodüksiyon ve Suni Tohumlama, İleri İK, Ak K, Pabuççuoğlu S, Birlir S (1998), 189-205, İÜ Vet. Fak. Yayınları, İstanbul, Hay
Resources	: Bioteknology For Livestock Production Prepared. Fao. Pp.: 1-42, 63-120.,Reproduction in Farm Animals. (1993) Ed: Hafez ESE 5. Baskı.,Evcil Hayva
Documents	:
Assignments	:
Exams	:

Course Category			
Mathmatics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Male reproductive system	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
2	Examination of male reproductive system	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
3	Gametogenesis	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
4	Morphology of Spermatozoon	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
5	Collection of semen	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
6	Semen examination	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
7	Freezing of Semen	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
8	ARA SINAV		
9	Andrological examination	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
10	Reproductive anatomy in cows	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
11	Reproductive Physiology	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
12	Practical methods in estrus detection	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
13	Technique rectal examination	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
14	Technique of Artificial Insemination	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
15	The usage of reproductive hormones in cows	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
16	Yarıyl Sonu Sınavı		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explain the anatomical and hormonal physiology of the reproductive systems in domestic animals.
C02	Identify signs of estrus in different species and determine the optimal time for insemination.
C03	Apply methods of semen collection, macroscopic, and microscopic examination in a clinical setting.
C04	Utilize technologies involved in the dilution and freezing (cryopreservation) of semen.
C05	Perform artificial insemination techniques properly in various domestic animals.
C06	Analyze potential problems encountered in the reproductive process and develop solutions.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	4	56
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	3	3
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	3	3
Total Work Load			90
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
C01	5	5	4	4	2	5	5	2	3	5	2	1	4	2	1	5	1	2	1
C02	5	5	2	3	3	2	2	1	2	5	1	1	3	2	3	5	1	2	1
C03	5	5	2	4	2	3	2	1	2	5	1	1	2	1	3	5	1	3	1
C04	5	5	3	4	1	5	2	1	2	5	1	1	1	1	3	5	1	2	1
C05	5	5	2	4	3	5	5	1	2	5	2	4	3	2	4	5	1	2	1
C06	5	5	1	4	1	5	5	1	3	5	1	3	5	2	2	5	1	1	1

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET441 FOOD BUSINESS ESTABLISHMENT AND MANAGEMENT					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET441	FOOD BUSINESS ESTABLISHMENT AND MANAGEMENT	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide knowledge and skills related to the establishment, management, hygiene, quality assurance, and sustainable operation of food enterprises within the framework of legal regulations.

Teaching Methods and Techniques:

This course covers the establishment stages of food enterprises, physical planning, equipment selection, hygiene and sanitation practices, quality management systems, occupational health and safety, personnel management, and relevant legislation. In addition, sustainable management approaches and inspection processes in food enterprises are examined.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Kübranur YILDIZ BAYHAN

Instructors:

Asist Prof.Dr. Sefa ÜNER

Assistants:

Recommended Sources

Textbook	:	Luning, P. A., Marcelis, W. J., & Jongen, W. M. F. (2002). Food safety management systems: A techno-managerial approach. Wageningen Academ
Resources	:	Fellows, P. J. (2017). Food processing technology: Principles and practice (4th ed.). Woodhead Publishing.
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	0	Education	:	0
Engineering	:	0	Science	:	0
Engineering Design	:	0	Health	:	100
Social Sciences	:	0	Field	:	0

Course Content

Week	Topics	Study Materials	Materials
1	Definition, classification, and basic characteristics of food enterprises		
2	Establishment stages and feasibility studies of food enterprises		
3	Site selection and physical planning in food enterprises		
4	Workflow diagrams, production areas, and equipment planning		
5	Food hygiene, sanitation, and disinfection practices		
6	Food safety management systems (HACCP, ISO 22000, etc.)		
7	Personnel management and occupational health and safety in food enterprises		
8	Midterm Exam		
9	Food legislation and official inspection practices		
10	Storage, logistics, and cold chain management		
11	Quality control and quality assurance practices in food enterprises		
12	Waste management, environmental protection, and sustainability practices		
13	Risk management and crisis management in food enterprises		
14	Economic management and cost analysis in food enterprises		
15	Current approaches, sector practices, and case studies		
16	Final Exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Defines the establishment processes and technical infrastructure requirements of food enterprises.
C02	Explains the fundamental principles of hygiene, sanitation, and food safety systems in food enterprises.
C03	Applies quality management systems and legal regulations in food enterprises.
C04	Analyzes organizational structures and management processes of food enterprises.
C05	Evaluates production, storage, and inspection processes in food enterprises.
C06	Acts in accordance with occupational health, safety, and environmental sustainability principles in food enterprises.
C07	Expresses knowledge related to the establishment and management of food enterprises verbally and in writing using scientific terminology.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	5	5	5	4	4	4	5	4	5	4	5	4	5	4	4
C01	5	4	4	4	5	4	4	3	3	3	4	3	4	3	4	3	4	3	3
C02	5	5	5	4	5	5	5	4	4	4	4	3	5	4	5	3	4	4	4
C03	4	4	5	5	5	5	5	4	4	4	5	4	5	4	5	4	5	4	4
C04	4	4	4	5	5	5	4	4	4	4	5	4	5	4	5	4	5	4	4
C05	4	4	5	4	5	5	5	4	4	4	4	4	5	4	5	4	5	4	4
C06	4	4	4	4	4	4	4	4	4	4	5	4	4	4	5	4	4	4	4
C07	5	5	4	4	4	4	5	4	4	4	5	4	5	4	5	4	5	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET429 FOOD ADDITIVES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET429	FOOD ADDITIVES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with fundamental knowledge about the classification, purposes of use, permitted limits, and applications of food additives in the food industry.

Teaching Methods and Techniques:

The course includes the definitions, purposes of use, and functional classification of food additives, permitted limits in their use, sweeteners, colorants, preservatives, antioxidants, acidity regulators, emulsifiers, thickeners, stabilizers, modified starches, gases, flour treatment agents, and the properties of other food additives.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Kübranur YILDIZ BAYHAN

Instructors:

Asist Prof.Dr. Kübranur YILDIZ BAYHANAsist Prof.Dr. Sefa ÜNER

Assistants:

Recommended Sources	
Textbook	: 1) Demirci, M. (2016). Gıda Kimyası. Gıda Teknolojisi Derneği.
Resources	: 2) Altuğ, T., (2002). Introduction to Toxicology and Food, CRC Press. Florida, 152 s.
Documents	: 3) Altuğ, T. (Ed.),, 2009. Gıda Katkı Maddeleri.Sidas Medya Ltd. Şti. İzmir. 268 s.
Assignments	: Altuğ, T., 2002. Introduction to Toxicology and Food, CRC Press. Florida, 152 s. Altuğ, T. (Ed.),, 2009. Gıda Katkı Maddeleri.Sidas Medya Ltd. Şti. İ.
Exams	: 1) Demirci, M. (2016). Gıda Kimyası. Gıda Teknolojisi Derneği. 2) Altuğ, T., (2002). Introduction to Toxicology and Food, CRC Press. Florida, 152 s.

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 80
Social Sciences	:	Field	: 20

Course Content			
Week	Topics	Study Materials	Materials
1	Definitions and Purposes of Food Additives		
2	Functional Classification of Food Additives		
3	Permitted Limits and Precautions in the Use of Food Additives		
4	Sweeteners and Colorants		
5	Preservatives and Antioxidants		
6	Chelating Agents, Acids, and Acidity Regulators		
7	Anti-caking and Anti-foaming Agents		
8	Midterm Exam		
9	Bulking Agents, Emulsifiers, and Thickeners		
10	Gelling Agents and Stabilizers		
11	Humectants and Modified Starches		
12	Firming Agents and Glazing Agents		
13	Gases and Emulsifying Salts		
14	Flour Treatment Agents		
15	Labeling information		
16	Mid-term exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the basic concepts related to food additives.
C02	Evaluates the purposes of use and functional classification of food additives.
C03	Explains the permitted limits and precautions regarding the use of food additives.
C04	Evaluates the properties and purposes of use of sweeteners, colorants, preservatives, and antioxidants.
C05	Evaluates the properties and technological applications of emulsifiers, thickeners, stabilizers, gelling agents, and modified starches.
C06	Explains the purposes of use and technological functions of acidity regulators, anti-caking agents, anti-foaming agents, gases, and flour treatment agents.
C07	Evaluates the importance of food additives in terms of food safety and public health.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	7	2	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	7	7
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	11	11
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	2	1	5	1	3	1	1	4	2	1	1	1	5	1	4	2	3
C01	5	4	1	1	5	1	3	1	1	3	2	1	1	1	4	1	3	1	2
C02	4	4	1	1	5	1	3	1	1	3	2	1	1	1	4	1	4	1	2
C03	4	4	1	1	5	1	3	1	1	5	2	1	1	1	5	1	4	1	2
C04	4	4	1	1	5	1	3	1	1	3	2	1	1	1	5	1	4	1	3
C05	4	4	1	1	5	1	3	1	1	3	2	1	1	1	4	1	4	1	3
C06	4	4	1	1	5	1	3	1	1	3	2	1	1	1	4	1	3	1	2
C07	4	4	3	1	5	3	4	1	1	4	3	1	3	1	5	1	4	3	3

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET405 INTERNAL MEDICINE-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET405	INTERNAL MEDICINE-II	4	4	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

In this course, it is aimed to provide students with in-depth knowledge and skills regarding the etiology, pathogenesis, clinical signs, diagnosis, and current treatment methods of digestive, respiratory, and urinary system diseases in domestic animals.

Teaching Methods and Techniques:

This course covers clinical examination methods and treatment protocols for digestive tract, liver, upper/lower respiratory, and excretory system diseases in large and small animals. Differential diagnosis processes are examined through case-based approaches.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar Çelik

Instructors:

Asist Prof.Dr. Vedat Baldaz

Assistants:

Research Assist. Mahsum Başak

Recommended Sources

Textbook	: İmren, H. Y., & Şahal, M. (1991). Veteriner iç hastalıkları. Medisan.Ankara.
Resources	: Ceylan, E. (Ed.). (2025). Kedi köpek iç hastalıkları. Akademisyen Kitabevi.Ankara.
Documents	: Ruminants' Internal Medicine
Assignments	:
Exams	:

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction: Clinical approach in internal medicine		
2	Fore-stomach diseases and dysfunctions in ruminants		
3	Gastric and intestinal diseases in horses and ruminants		
4	Digestive system diseases of cats and dogs		
5	Diseases of the liver and exocrine pancreas		
6	Upper respiratory tract diseases and infections		
7	Lower respiratory tract (lungs and pleura) diseases		
8	Midterm Exam		
9	Urinary system diseases: Nephritis and renal failure		
10	Lower urinary tract and urolithiasis		
11	Introduction to metabolic and endocrine system diseases		
12	Fluid-electrolyte balance and acid-base disorders		
13	Clinical hematology and approach to anemias		
14	Poisonings and toxicology cases		
15	Case discussions and general review		
16	final exam		

Recommended Optional Programme Components

VET527 BIOCHEMISTRY

VET529 PHYSIOLOGY

VET251 LABORATORY WORKING PRINCIPLES

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the pathophysiological mechanisms of digestive and respiratory system diseases.
C02	Performs specific clinical examination techniques for internal organ systems.
C03	Synthesizes clinical findings and laboratory data to reach an accurate diagnosis.
C04	Evaluates the prognosis of diseases and plans appropriate treatment protocols.
C05	Analyzes the differences between herd health and individual patient management.
C06	Communicates effectively with animal owners within the framework of professional ethics.
C07	Evaluates treatment methods critically using current scientific literature.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment	Quantity	Percentage
In-Term Studies		
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	5	5
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	3	3
Total Work Load			92
ECTS Credit of the Course			3

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET413 DISEASES OF POULTRY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET413	DISEASES OF POULTRY	3	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

To provide students with in-depth knowledge and skills regarding the etiology, epidemiology, diagnosis, treatment, and prevention methods of viral, bacterial, fungal, and parasitic diseases in poultry.

Teaching Methods and Techniques:

It covers the examination of infectious and non-infectious diseases of poultry along with biosecurity and vaccination strategies.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. ÖZGÜL GÜLAYDIN

Instructors:

Asist Prof.Dr. Muazzez YEŞİLYURTAsist Prof.Dr. Songül ÖTKÜNAssociate Prof.Dr. ÖZGÜL GÜLAYDIN

Assistants:

Recommended Sources	
Textbook	: Kanatlı hayvan hastalıkları. Arda, M., Minbay, A., Leloğlu, N., Aydın, N., Akay, Ö., İzgür, M, Yardımcı, H., Esendal, Ö., Paracıkoğlu, J., Akan, M. (20
Resources	: Kanatlı hayvan hastalıkları. Arda, M., Minbay, A., Aydın, N., Akay, Ö., İzgür, M, 3. Baskı (1997),Carlı K.T., Kanatlı Hayvanların Enfeksiyon Hastalıkları
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	General introduction to the course, general concepts, biosecurity in poultry farms		
2	Newcastle Disease		
3	Infectious Bronchitis Disease		
4	Marek Disease		
5	Infectious Bursal Disease		
6	Poultry Leukosis		
7	Epidemic Tremor, Egg Drop Syndrome Diseases		
8	Poultry Pox, Chicken Infectious Anemia Diseases		
9	Midterm Exam		
10	Poultry Reovirus Infections, Poultry Influenza		
11	Poultry Salmonella infections; Typhoid, Pullorum and Paratyphoid infections		
12	Poultry Mycoplasma Infections		
13	Escherichia coli infections		
14	Streptococcus infection, Staphylococcus infection, Necrotic Enteritis infections		
15	Fowl Cholera, Infectious Coryza		
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the etiological agents and pathogenesis of poultry diseases.
C02	Defines biosecurity and preventive medicine principles in poultry enterprises.
C03	Distinguishes macroscopic lesions by performing necropsy on poultry.
C04	Applies systemic examination and pathological sampling techniques for disease diagnosis.
C05	Plans appropriate vaccination programs for poultry flocks.
C06	Evaluates the public health risks of zoonotic poultry diseases.
C07	Interprets laboratory results to make a differential diagnosis of diseases.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	3	3
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	5	5
Total Work Load			92
ECTS Credit of the Course			3

Course Contribution To Program																
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P13	P14	P15	P18	P19	
All	2	2	5	1	1	5	2	1	1	1	3	1	1	1	1	
C01	5	4	5			4	3				4					
C02	4		4		5	5	5	3	4	5		5	5			
C03			5	5		5					5			5		
C04			5	5		5					5			5	5	
C05			4			5			3			5				
C06	3	4	4		5	4	5			4			5			
C07	4	4	5			5					5				5	

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET451 Reproduction in Poultry					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET451	Reproduction in Poultry	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The objective of this course is to equip students with fundamental theoretical knowledge and field-oriented practical skills regarding reproductive anatomy, physiology, egg formation, incubation biology, and artificial insemination practices in domestic avian species.

Teaching Methods and Techniques:

There is no prerequisite for the course. Anatomy and physiology of male and female reproductive systems in poultry, reproductive endocrinology, egg formation, semen collection and evaluation methods, artificial insemination techniques, incubation principles, and factors affecting hatchability.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Ahmet ESER

Instructors:

Asist Prof.Dr. Ahmet ESERAsist Prof.Dr. Aslıhan ÇAKIR CİHANGİROĞLU

Assistants:

Research Assist. Abdurrahman ALAKUŞResearch Assist. Kemal BAĞCI

Recommended Sources	
Textbook	: Evcil Hayvanlarda Reprodüksiyon ve Suni Tohumlama, İleri İK, Ak K, Pabuççuoğlu S, Birlir S (1998), 189-205, İÜ Vet. Fak. Yayınları, İstanbul, Ther
Resources	: Hayvanlarda Reprodüksiyon, Androloji ve Yardımcı Üreme Teknikleri, Soylu MK, Ak K, Akçay E, Baran A, Evcecen M, Tırpan MB (2023)
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Genital Anatomy in Female Birds.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
2	Genital Anatomy in Male Birds.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
3	Reproductive Physiology in Poultry.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
4	Hormonal Regulation of Reproduction in Poultry.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
5	Sexual Cycles in Birds.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
6	Structure of Spermatozoa in Poultry.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
7	Seminal Plasma in Poultry.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
8	Midterm Exam		
9	Sperm Collection Techniques in Poultry.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
10	Spermatological Examinations in Poultry.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
11	Sperm Diluents Used in Poultry.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
12	Mating in Poultry.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
13	Artificial Insemination in Poultry.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
14	Artificial Insemination Techniques in Poultry.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
15	Determining the Optimal Time for Insemination in Poultry.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
16	End-of-Term Exam	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explain the anatomical and physiological structure of reproductive systems in avian species.
C02	Detail the egg formation process and reproductive endocrinology.
C03	Apply semen collection and spermatological examination methods in male poultry.
C04	Perform artificial insemination techniques used in the poultry industry properly.
C05	Analyze the principles of incubation biology and the factors affecting hatchability.
C06	Evaluate reproductive problems and incubation issues encountered at the flock level and develop solutions.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
C01	5	3	2	1	2	1	1	4	2	1	1	1	1	1	1	4	1	1	1
C02	5	3	2	1	3	1	1	4	2	1	1	1	1	1	1	4	1	1	1
C03	4	3	2	5	1	1	1	3	2	1	2	1	2	1	1	5	1	4	5
C04	4	3	2	5	2	1	1	4	3	1	2	1	2	1	1	5	1	2	2
C05	4	4	2	2	4	1	1	5	5	1	1	1	2	1	1	5	1	1	1
C06	5	5	4	2	3	2	1	5	5	1	2	1	4	1	1	5	1	2	2

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET449 ASSISTED REPRODUCTIVE TECHNIQUES IN CATS AND DOGS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET449	ASSISTED REPRODUCTIVE TECHNIQUES IN CATS AND DOGS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The objective of this course is to provide students with comprehensive and up-to-date theoretical knowledge on the control of reproductive physiology, semen collection and preservation methods, and assisted reproductive technologies such as artificial insemination in cats and dogs, and to equip them with practical skills for the clinical application of these techniques.

Teaching Methods and Techniques:

There is no prerequisite for the course. Reproductive anatomy and physiology in cats and dogs, monitoring and manipulation of the estrus cycle, semen collection and evaluation in dogs, short and long-term preservation of semen (chilling and freezing), artificial insemination techniques in cats and dogs, recent advances in reproductive biotechnology.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Ahmet ESER

Instructors:

Asist Prof.Dr. Ahmet ESER Asist Prof.Dr. Aslıhan ÇAKIR CİHANGİROĞLU

Assistants:

Research Assist. Abdurrahman ALAKUŞ Research Assist. Kemal BAĞCI

Recommended Sources

Textbook	:	Evcil Hayvanlarda Reprodüksiyon ve Suni Tohumlama, İleri İK, Ak K, Pabuççuoğlu S, Birler S (1998), 189-205, İÜ Vet. Fak. Yayınları, İstanbul, Hay
Resources	:	Hayvanlarda Reprodüksiyon, Androloji ve Yardımcı Üreme Teknikleri, Soyul MK, Ak K, Akçay E, Baran A, Evcen M, Tırpan MB (2023)
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Reproductive Anatomy and Physiology in Female.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
2	Reproductive Anatomy and Physiology in Male.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
3	Puberty in Female and Male Animals.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
4	Mating and Mating Season in Cats and Dogs.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
5	The Estrus Cycle in Cats and Dogs.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
6	Techniques Used to Determine the Optimal Timing of Insemination in Cats and Dogs.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
7	Artificial Insemination Techniques in Cats and Dogs.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
8	Ara Sınav		
9	Methods of Sperm Collection in Cats and Dogs and Examination of Spermatological Characteristics.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
10	Cryopreservation of Sperm.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
11	Inducing Estrus in Female Dogs.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
12	Hormone Administration Before and After Insemination in Female Cats.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
13	Infertility in Male Cats and Dogs.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
14	Hormone Treatments in Male Cats and Dogs.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
15	Reproductive Monitoring and Neutering in Male Cats and Dogs.	Course of the study subjects planned to Evcil Hayvanlarda Reprodüksiyon ve Sur	
16	Yarı Yıl Sonu Sınavı		

Course Learning Outcomes

No	Learning Outcomes
C01	Explain the reproductive physiology and species-specific estrus cycle of cats and dogs in detail.
C02	Interpret vaginal cytology and hormone (progesterone) analyses to determine the optimal time for insemination.
C03	Apply techniques for semen collection, macroscopic/microscopic examination, and preservation (chilling/freezing) in dogs.
C04	Select and perform artificial insemination methods (vaginal, transcervical, etc.) appropriate for cat and dog anatomy in a clinical setting.
C05	Analyze the causes of failure in assisted reproductive technologies using clinical data and develop patient-specific alternative reproductive strategies.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
C01	5	3	2	1	1	1	1	4	2	1	1	1	2	1	1	5	1	1	1
C02	4	4	3	4	1	1	1	3	2	1	2	1	4	1	1	5	1	5	5
C03	4	4	2	5	1	1	1	4	3	1	3	1	4	1	1	5	1	5	5
C04	4	4	2	5	1	1	1	4	3	1	4	3	4	1	1	5	1	2	1
C05	5	5	4	3	1	1	1	4	4	1	4	2	5	1	1	5	1	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET453 CLINICAL PHARMACOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET453	CLINICAL PHARMACOLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To provide competence in rational and safe drug use by teaching the clinical uses of drugs, pharmacokinetic and pharmacodynamic properties, treatment principles and side effect/risk management.

Teaching Methods and Techniques:

• Klinik farmakolojinin tanımı ve kapsamı • Klinik pratikte ilaç seçimi kriterleri • Dozaj, doz ayarlama ve bireysel farklılıklar • Farmakokinetik (absorpsiyon, dağılım, metabolizma, eliminasyon) • Farmakodinamik prensipler ve reseptör etkileşimleri • İlaç-ilaç ve ilaç-hastalık etkileşimleri • Klinik toksikoloji ve yan etki yönetimi • Antibakteriyel ilaçların klinik kullanımı • Antiparaziter ilaçların klinik kullanımı • Antiviral, antifungal ve immünomodülatör ilaçların klinik kullanımı • Analjezikler, anestezikler ve sedatiflerin klinik uygulamaları • Kardiyovasküler ve solunum sistemi ilaçlarının klinik kullanımı • Gastrointestinal, renal ve endokrin sistem ilaçları • Klinik farmakolojide vaka analizleri ve kanıta dayalı ilaç kullanımı

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources	
Textbook	:
Resources	: Riviere JE, Papich MG. Veterinary Pharmacology and Therapeutics, Papich MG. Saunders Handbook of Veterinary Drugs, Giguère S. Antimicrobial Therapeutics
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Klinik farmakolojiye giriş: Tanımı, kapsamı, önemi		
2	Farmakokinetik temeller: Absorpsiyon, dağılım, metabolizma, eliminasyon		
3	Farmakodinamik temeller: Reseptörler, agonist-antagonist ilişkisi		
4	Dozaj hesaplama ve klinikte doz ayarlama		
5	İlaç etkileşimleri ve klinik önemi		
6	Antibakteriyel ilaçların klinik kullanımı		
7	Antiparaziter ilaçların klinik kullanımı		
8	Antifungal ve antiviral ilaçların klinik kullanımı		
9	Analjezikler ve anesteziklerin klinik uygulamaları		
10	Kardiyovasküler ilaçlar (antiaritmik, antihipertansif, diüretikler)		
11	Solunum sistemi ilaçları (bronkodilatörler, mukolitikler)		
12	Gastrointestinal sistem ilaçları (antiemetikler, laksatifler, antasitler)		
13	Endokrin ve metabolik sistem ilaçları (hormonlar, insülin, tiroid ilaçları)		
14	Klinik farmakolojide vaka çalışmaları ve kanıta dayalı ilaç kullanımı		

Recommended Optional Programme Components	
VET309 PHARMACOLOGY-I	
VET304 PHARMACOLOGY-II	

Course Learning Outcomes	
No	Learning Outcomes
C01	• Describes the basic principles of clinical pharmacology. • Interprets the pharmacokinetic and pharmacodynamic properties of drugs. • Applies dose calculation and dose adjustment methods in clinical practice.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	7	1	7
Assignments	7	1	7
Presentation	9	1	9
Mid-terms	1	3	3
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	6	6
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	4	5	4	5	4	5	4	5	5	5	5	4	4	4	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET419 CLINICAL PRACTICE-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET419	CLINICAL PRACTICE-II	8	4	4

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of the course is to provide the students with the experience and skills in the field of clinical sciences, to improve the ability and knowledge to solve the problems encountered in the clinical field, and to teach the relationship between patient, patient and physician.

Teaching Methods and Techniques:

Animal hospital in the process of examination and treatment of animals

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar Çelik

Instructors:

Asist Prof.Dr. Vedat Baldaz

Assistants:

Research Assist. Mahsum Başak

Recommended Sources	
Textbook	: 1. Veterinary Medicine, Radostits, O.M. et all, WBSaunders, London, 2004 2. Birth and Infertility, Alaçam, E. Medisan, Ankara, 1999 3. Special Surg
Resources	: 1.Veteriner İç Hastalıklarına Giriş, İmren H.Y., Ankara, 1994,2.İç Hastalıkları Kliniğine Giriş, Atlan, Y., Şendil, Ç., İstanbul, 1983
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Trauma, Burn and Freezing		
2	Sampling for routine laboratory examinations (Internal diseases)		
3	Evaluation of clinical meaning of laboratory findings (Internal diseases)		
4	Case discussion (Internal diseases)		
5	Orthopedic examinations in dogs and cats (Surgery)		
6	Catheterization of the bladder and examination of the prostate in dogs and cats (Surgery)		
7	Praenesthetic monitoring and complications, anesthesia in animals at risk (Surgery)		
8	midterm exam		
9	Genital organ examination and intrauterine catheter application in slaughterhouse material (Obstetrics and Gynecology)		
10	Presentation and position exercises on phantom, aid in normal and difficult labor, fetotomy (Obstetrics and Gynecology)		
11	Ovariohysterectomy applications in cats and dogs (Obstetrics and Gynecology)		
12	Macroscopic examination of male genital organs, sperm collection methods, preparation of artificial vagina (Dölerme and A		
13	Spermatological examination, semen dilution methods, macroscopic examination of female genital organs (Dölerme and Ar		
14	Gynecological examination, recto-vaginal inspection, artificial insemination techniques, artificial insemination and sperm stc		
15	An overview		
16	final exam		

Recommended Optional Programme Components
VET527 BIOCHEMISTRY

Course Learning Outcomes	
No	Learning Outcomes
C01	Learns how to approach sick animals and how they are taken from animal owners,
C02	Recognize the structural, functional and behavioral characteristics of animal species and races
C03	Learns the application of examination methods as taught in theoretical courses
C04	Learns the interpretation of general and special examination techniques, system examinations, clinical and laboratory examinations in different animal species.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
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P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	15	8	120
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	3	3
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	3	3
Total Work Load			126
ECTS Credit of the Course			4

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	5	5	4	1	5	5	2	2	5	5	5	5	4	5	5
C01	4	5	4	4		4	4	4	5	4	4	4	4	5	5	5	4	4	5
C02	5	4	4	4	4	5	4	5	3	5	5	5	4	4	5	4	5	4	5
C03	4	4	5	5	4	4	4	5	5	5	5	4	5	3	5	4	5	5	5
C04	4	5	4	5	4	5	5	5	5	3	4	4	5	4	3	4	4	4	5

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET431 DOG AND CAT CLINIC CARDIOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET431	DOG AND CAT CLINIC CARDIOLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

In this course; it is aimed for students to understand the pathophysiology of congenital and acquired heart diseases in dogs and cats, to apply current diagnostic methods (ECG, Echocardiography, etc.), and to manage appropriate treatment protocols.

Teaching Methods and Techniques:

The course covers basic examination techniques in small animal cardiology, arrhythmia management, valvular diseases, cardiomyopathies, and current drug use in heart failure.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Associate Prof.Dr. Gülşah AKGÜL

Assistants:

Research Assist. mahsum Başak

Recommended Sources	
Textbook	: Tarık Bilal, Köpek ve Kedilerde Kardiyoloji ISBN: 9789754208283, 2011
Resources	: cat and dog clinical cardiology
Documents	: köpek ve kedilerde elektrokardiyografi
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Cardiovascular anatomy , physiology and blood circulation	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
2	Examination of the cardiovascular system	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
3	Radiographic examination of the thorax	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
4	Heart failure	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
5	Diagnosis and treatment of arrhythmia	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
6	Echocardiography Dog	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
7	Dilatatif cardiomyopathy, myocardial insufficiency primary reason	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
8	Midterm		
9	Congestive heart failure and valvular disease	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
10	infective endocarditis	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
11	Congenital heart disease	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
12	Cats cardiomyopathies	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
13	Blood pressure and heartworm infestation	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
14	shock syndrome	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
15	Pericardial and pleural diseases	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	
16	End-of-term exam	Course of the study subjects planned to Tarık Bilal, Köpek ve Kedilerde Kardiyoloji	

Recommended Optional Programme Components	
VET404 INTERNAL MEDICINE-III	

Course Learning Outcomes	
No	Learning Outcomes
C01	Correlates anatomical and physiological mechanisms of the heart with clinical cases.
C02	Differentiates cardiac auscultation findings (murmurs, rhythm disturbances).
C03	Interprets basic ECG tracings and diagnoses common arrhythmias.
C04	Prepares an appropriate treatment plan according to the stage of the patient with heart failure.
C05	Evaluates cardiac silhouette and pulmonary vascularity in thoracic radiographs.
C06	Identifies common congenital heart defects (PDA, VSD, etc.).
C07	Manages intervention strategies in acute cardiac crises (pulmonary edema, etc.).

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	10	2	20
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	3	3
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	4	4
Total Work Load			55
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	4	1	3	4	2	4	3	4	3	5	3	4	2	3	4	5
C01	5	5	5	4	1	3	3	2	3	3	3	3	5	3	3	2	3	3	4
C02	5	5	5	5	1	3	3	2	3	3	3	3	5	3	3	2	3	4	5
C03	5	5	5	4	1	4	1	4	2	5	3	5	4	5	4	5	3	2	5
C04	5	5	5	4	1	3	5	5	2	3	3	3	5	3	5	4	2	4	5
C05	5	5	5	5	1	3	3	3	2	3	3	3	5	3	3	2	4	5	5
C06	5	5	5	5	1	3	3	2	4	3	3	3	5	3	3	2	3	4	4
C07	5	4	1	4	3	2	4	4	5	4	5	4	5	2	3	5	5	5	5

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET437 PROFESSIONAL ENGLISH-VII					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET437	PROFESSIONAL ENGLISH-VII	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To teach students the English and Turkish equivalents of general terminology in related fields-to gain the ability to understand the parts of the profession

Teaching Methods and Techniques:

This course is a continuation of the vocational English VI course, which gives students the ability to teach general terminology in English and Turkish equivalents in related fields and to understand the parts of the profession.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Ayfer FINDIK PAKROOH

Instructors:

Assistants:

Recommended Sources	
Textbook	: Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Resources	: Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Documents	:
Assignments	:
Exams	:

Course Category		
Mathematics and Basic Sciences	:	Education
Engineering	:	Science
Engineering Design	:	Health
Social Sciences	:	Field
		: 100

Course Content		
Week	Topics	Study Materials Materials
1	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
2	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
3	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
4	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
5	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
6	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
7	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
8	mid term exam	Course of the study subjects planned to Medical Passages & Vocabulary for UDS
9	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
10	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
11	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
12	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
13	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
14	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS
15	Medikal English text and Turkish translation	subjects should be chosen as appropriatMedical Passages & Vocabulary for UDS

Course Learning Outcomes	
No	Learning Outcomes
C01	Learning English terminology that can be encountered throughout the professional life
C02	To gain the ability to understand simple and medium medical articles.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

[illegible]

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET461 METALS AND THEIR IMPORTANCE FOR ANIMAL HEALTH					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET461	METALS AND THEIR IMPORTANCE FOR ANIMAL HEALTH	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

to ensure that they learn the biological roles, metabolic functions, deficiency and excess states, toxicological effects, environmental sources and protection-management strategies of metals (trace elements and heavy metals) that are important for animal health.

Teaching Methods and Techniques:

• Biological importance of metals • Essential trace elements (Cu, Zn, Fe, Se, Mn, Co, Mo, etc.) • Heavy metals and their toxicities (Pb, Hg, Cd, As, Al, etc.) • Metal deficiencies and metabolic disorders • Excess and poisoning • Biochemical and pharmacological roles of metals • Environmental pollution and residues in animal products • Diagnostic and therapeutic approaches (chelators, supportive treatments) • Preventive medicine and toxicological risk assessment

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources

Textbook	:	
Resources	:	Gupta RC. Veterinary Toxicology: Basic and Clinical Principles,Kaneko JJ, Harvey JW, Bruss ML. Clinical Biochemistry of Domestic Animals,Underwood
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:	
Engineering	:	Science	:	
Engineering Design	:	Health	:	100
Social Sciences	:	Field	:	

Course Content

Week	Topics	Study Materials	Materials
1	Metallerin biyolojik önemi ve sınıflandırılması		
2	Eser elementler: Çinko (Zn) ve biyolojik etkileri		
3	Bakır (Cu): Metabolizma, eksiklik ve fazlalık sorunları		
4	Demir (Fe) ve Kobalt (Co): Hemoglobin sentezi, anemiler		
5	Selenyum (Se) ve Manganez (Mn): Antioksidan sistemler ve kemik sağlığı		
6	Molibden (Mo) ve iyot (I): Metabolizma ve endokrin sistem üzerine etkileri		
7	Ara sınav ve vaka tartışmaları		
8	Kurşun (Pb) toksisitesi ve klinik bulguları		
9	Cıva (Hg) toksisitesi ve hayvansal ürünlerde kalıntıları		
10	Kadmiyum (Cd) ve Arsenik (As) toksisitesi		
11	Alüminyum (Al) ve diğer çevresel metaller		
12	Teshis yöntemleri: Klinik belirtiler, laboratuvar testleri, histopatoloji		
13	Tedavi ve korunma yöntemleri: Selatörler, detoksifikasyon, beslenme yaklaşımları		
14	Çevresel riskler, hayvansal ürünlerde kalıntıları ve gıda güvenliği		

Recommended Optional Programme Components

VET415 TOXICOLOGY AND ENVIRONMENTAL PROTECTION

Course Learning Outcomes

No Learning Outcomes

C01 • Metallerin biyolojik önemi • Temel eser elementler (Cu, Zn, Fe, Se, Mn, Co, Mo vb.) • Ağır metaller ve toksisiteleri (Pb, Hg, Cd, As, Al vb.) • Metal eksiklikleri ve metabolik bozukluklar • Fazlalık

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
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P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P16	Understand the relationships between concepts and concepts related to the field
P12	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
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P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	6	1	6
Assignments	6	1	6
Presentation	8	1	8
Mid-terms	1	3	3
Practice	3	1	3
Laboratory	0	0	0
Project	0	0	0
Final examination	1	6	6
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	5	5	5	4	4	4	5	5	5	4	5	4	5	4	5	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET409		NECROPSY			
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET409	NECROPSY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to teach the fundamental principles of necropsy, postmortem changes, and evaluation of pathological findings in veterinary medicine and to enable students to perform systematic examinations to determine the cause of death.

Teaching Methods and Techniques:

The course is conducted through theoretical instruction and practical training. Practical sessions include performing necropsy techniques, evaluating macroscopic findings, and demonstrating appropriate sampling methods.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Özgür ÖZÖNER

Instructors:

Asist Prof.Dr. İhsan İŞBİLİRAsist Prof.Dr. Özgür Özöner

Assistants:

Research Assist. Betül Orhan

Recommended Sources	
Textbook	: Şenay, B. (1996). Necropsy techniques in veterinary pathology. Ankara University Faculty of Veterinary Medicine Publications.
Resources	: Şenay, B. (1996). Necropsy techniques in veterinary pathology. Ankara University Faculty of Veterinary Medicine Publications.,Pathology of Domestic
Documents	:
Assignments	:
Exams	:

Course Category	
Mathematics and Basic Sciences	:
Engineering	:
Engineering Design	:
Social Sciences	:
Education	:
Science	:
Health	: 100
Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	General information about the necropsy - the aim and importance of necropsy	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
2	General information about the necropsy - euthanasia, macroscopic examination of cadavers,	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
3	General information about the necropsy - postmortal changes	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
4	General information about the necropsy - autolysis	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
5	Necropsy technique - Tilt methods and skin skinning	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
6	Necropsy technique - the opening of the abdominal cavity and the organs removed	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
7	Necropsy technique - opening of the chest cavity and removal of organs	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
8	midterm		
9	Necropsy technique - the opening and examination of the heart	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
10	Necropsy technique - removal and examination of the brain	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
11	Necropsy techniques - M. spinalis removal, opening and examination of the mouth and nasal cavity	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
12	Necropsy technique - Tilt methods and skin skinning	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
13	Macroscopic veterinary pathology - the consistency and shape of the lesions	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
14	Taking samples from diseased tissue	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
15	Processing of tissues in the laboratory	Research on the subject	Nekropsi- Ders Notu Veteriner Patoloji I.
16	End-of-Term Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the basic principles of necropsy and its importance in veterinary pathology.
C02	Describes postmortem changes and pathological lesions.
C03	Analyzes the systematic steps of necropsy procedures in animals.
C04	Analyzes the systematic steps of necropsy procedures in animals.
C05	Evaluates macroscopic findings and differentiates various lesion types.
C06	Interprets necropsy findings by correlating them with clinical data.
C07	Develops a systematic approach to necropsy practices within veterinary pathology.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	16	16
Practice	14	1	14
Laboratory	0	0	0
Project	0	0	0
Final examination	1	16	16
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	4	4	4	4	5	4	4	4	3	5	3	3	3	4	5	5
C01	4	4	5	4	4	4	4	5	4	4	4	3	4	3	3	3	4	4	4
C02	4	4	5	4	4	4	4	5	4	4	4	3	4	3	3	3	4	4	5
C03	4	4	5	4	4	4	4	5	4	4	4	3	4	3	3	3	4	5	5
C04	4	4	5	4	4	4	4	5	5	4	4	3	4	3	3	3	4	5	5
C05	4	4	5	4	4	4	4	5	5	4	4	3	4	3	3	3	4	5	5
C06	4	4	5	4	4	4	4	5	4	4	4	3	4	3	3	3	4	5	5
C07	4	4	5	4	4	4	4	5	4	5	4	3	4	3	3	3	4	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET435 PARASITIC ZOONNOSES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET435	PARASITIC ZOONNOSES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seğmeli

Goals:

Parasitic diseases transmissible from humanbeings to animals from animals to humanbeings. The student will be careful when they contact to animals their tissues and organs during examinations and necropsy. On the other hand, they will learn food hygiene and prevention for parasitic diseases.

Teaching Methods and Techniques:

Anthropozoonosis, zoonanthroposis, classification and terms, Schistosomiasis, Fasciolosis and other trematode infections, Cystic Echinococcosis, alveolar echinococcosis, Taeniosis and other cestode infections Toxocarariasis, Filariasis and other nematode infections, Amebiasis, Giardiasis, Trypanosomiasis, Leishmaniasis and Cryptosporidiosis, Sarcosporidiosis and Toxoplasmosis, Plasmodium and Babesia infections, Diptera, myiasis, Fleas and ticks, Scabies and other mites

Prerequisites:

Course Coordinator:

Asist Prof.Dr. BURÇAK ASLAN

Instructors:

Assistants:

Recommended Sources	
Textbook	: TÜZER, E , TOPARLAK, M (2000) : Veteriner Helmintoloji , İ.Ü.Ders Notları.
Resources	: BURGU, A. (2008).Genel Parazitoloji. A.Ü.Basımevi, Ankara.,S.R. Palmer, Lord Soulsby, and D.I.H. Simpson: 1998. ZOONOSSES. Biology, Clinical Pra
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	nthropozoonosis, zoonanthroposis, classification and terms		TUZER, E , TOPARLAK, M (2000) : Vet
2	Schistosomiasis and Fasciolosis		TUZER, E , TOPARLAK, M (2000) : Vet
3	Other trematode infections		TUZER, E , TOPARLAK, M (2000) : Vet
4	Cystic Echinococcosis, alveolar echinococcosis		TUZER, E , TOPARLAK, M (2000) : Vet
5	Taeniosis and other cestode infections		TUZER, E , TOPARLAK, M (2000) : Vet
6	Toxocarariasis		TUZER, E , TOPARLAK, M (2000) : Vet
7	Filariasis and other nematode infections		TUZER, E , TOPARLAK, M (2000) : Vet
8	Amebiasis, Giardiasis, Trypanosomiasis		TUZER, E , TOPARLAK, M (2000) : Vet
9	Leishmaniasis and Cryptosporidiosis		TUZER, E , TOPARLAK, M (2000) : Vet
10	Sarcosporidiosis and Toxoplasmosis, Plasmodium and Babesia infections		TUZER, E , TOPARLAK, M (2000) : Vet
11	Diptera, myiasis		TUZER, E , TOPARLAK, M (2000) : Vet
12	Fleas and ticks		TUZER, E , TOPARLAK, M (2000) : Vet
13	Scabies and other mites		TUZER, E , TOPARLAK, M (2000) : Vet
14	Scabies and other mites		TUZER, E , TOPARLAK, M (2000) : Vet

Course Learning Outcomes	
No	Learning Outcomes
C01	Students are expected to gain information about zoonotic diseases.
C02	Morphology, biology and diagnostics of Zoonosis Parasites learns
C03	Learn to way of treatment and prevention of zoonosis parasites

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows; located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			30
ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	4	3	3	4	5	2	3	3	2	1	4	4	4	1	1	4	4
C01	4	4	4	3	3	4	5	2	3	3	2	1	5	4	4	1	1	4	4
C02	4	5	4	4	3	5	4	3	2	2	3	2	4	5	4	2	2	4	4
C03	4	4	4	4	3	4	4	3	3	3	3	2	4	5	4	2	2	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET445 PET ANIMAL EAR DISEASES AND OPERATION METHODS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET445	PET ANIMAL EAR DISEASES AND OPERATION METHODS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with knowledge, skills, and clinical evaluation competence regarding the etiology, diagnosis, medical and surgical treatment methods, and operative techniques of ear diseases seen in pet animals.

Teaching Methods and Techniques:

This course content includes the etiopathogenesis, clinical findings, diagnostic methods, otoscopic examination techniques, medical treatment applications, and operative methods used in ear surgery for external, middle, and inner ear diseases. In addition, postoperative care and complication management are evaluated.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Barış AKGÜL

Instructors:

Prof.Dr. Nihat ŞINDAKProf.Dr. Mehmet SAĞLAMAssociate Prof.Dr. Mustafa Barış AKGÜLAsist Prof.Dr. Kadir SULUAsist Prof. Dr. Onur YILDIRIM Associate Prof.Dr. Ali GÜLAYDIN

Assistants:

Research Assist. Maruf YILMAZ Research Assist. Sevdet KILIÇResearch Assist. Bahar ERDEN

Recommended Sources	
Textbook	: Fossum, T. W. (2019). Small animal surgery (5th ed.). Elsevier.
Resources	: Monnet, E. (2013). Small animal soft tissue surgery (2nd ed.). Wiley-Blackwell.
Documents	: Tilley, L. P., & Smith, F. W. K. (2006). Blackwell's five-minute veterinary consult: Saunders manual of small animal practice (3rd ed.). Saunders Elsevier.
Assignments	: Fossum, T. W. (2019). Small animal surgery (5th ed.). Elsevier. Monnet, E. (2013). Small animal soft tissue surgery (2nd ed.). Wiley-Blackwell. Tilley, L. P., & Smith, F. W. K. (2006). Blackwell's five-minute veterinary consult: Saunders manual of small animal practice (3rd ed.). Saunders Elsevier.
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to veterinary ear diseases and basic terminology		
2	Ear anatomy and physiology		
3	Ear examination methods and otoscopy		
4	External ear diseases		
5	Middle ear diseases		
6	Inner ear diseases		
7	Diagnostic methods and imaging techniques in ear diseases		
8	MIDTERM EXAM		
9	Medical treatment approaches in ear diseases		
10	Otohematoma and surgical treatment methods		
11	External ear canal resection techniques		
12	Total ear canal ablation and bulla osteotomy		
13	Ear tumors and surgical approaches		
14	Complications, recurrence causes, and long-term management		
15	Postoperative care and complication management		
16	FINAL EXAM		

Recommended Optional Programme Components	
VET445 PET ANIMAL EAR DISEASES AND OPERATION METHODS	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains ear anatomy, physiology, and etiopathogenesis of ear diseases in pet animals.
C02	Evaluates imaging and diagnostic methods used in ear diseases.
C03	Applies clinical examination and otoscopic evaluation methods in ear diseases.
C04	Interprets the clinical findings of external, middle, and inner ear diseases.
C05	Applies ear surgery techniques.
C06	Plans medical treatment methods for ear diseases.
C07	Acts in accordance with ethical principles in veterinary ear surgery.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	5	3	5	4	3	4	3	5	5	5	3	3	2	4	5	4
C01	5	5	4	4	3	3	3	3	3	2	4	3	3	2	2	2	3	3	3
C02	5	5	5	5	3	4	4	3	4	2	4	5	5	3	2	2	3	5	4
C03	5	4	4	4	3	4	5	3	4	2	4	4	5	3	2	2	3	5	5
C04	5	5	5	4	3	4	4	3	4	3	4	4	4	3	3	2	4	4	4
C05	5	5	5	4	3	4	4	3	4	3	5	4	5	3	2	2	4	4	4
C06	5	4	4	5	2	4	4	3	4	2	4	5	5	3	3	2	3	5	4
C07	5	5	4	4	3	3	3	3	3	3	5	4	4	3	3	2	3	4	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET433 PET ANIMAL TUMOURS AND DIAGNOSTIC METHODS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET433	PET ANIMAL TUMOURS AND DIAGNOSTIC METHODS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with knowledge, skills, and clinical evaluation competence regarding the biology, classification, clinical findings, diagnostic methods, and treatment approaches of tumors seen in pet animals.

Teaching Methods and Techniques:

This course content includes the etiopathogenesis, biological behavior, diagnostic methods, cytological and histopathological evaluations, imaging techniques, and medical/surgical treatment approaches of benign and malignant tumors seen in pet animals. In addition, clinical approaches and prognosis evaluations in oncological cases are examined.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Barış AKGÜL

Instructors:

Associate Prof.Dr. Mustafa Barış AKGÜL Asist Prof.Dr. Kadir SULUAsist Prof.Dr. Onur YILDIRIMProf.Dr. Nihat ŞINDAKProf.Dr. Mehmet SAĞLAM Associate Prof.Dr. Ali GÜLAYDIN

Assistants:

Research Assist. Maruf YILMAZ Research Assist. Bahar ERDENResearch Assist. Sevdet KILIÇ

Recommended Sources	
Textbook	: Fossum, T. W. (2019). Small animal surgery (5th ed.). Elsevier.
Resources	: Tobias, K. M., & Johnston, S. A. (2012). Veterinary surgery: Small animal (2nd ed.). Elsevier.
Documents	: Monnet, E. (Ed.). (2013). Small animal soft tissue surgery. Wiley-Blackwell.
Assignments	: Slatter, D. (Ed.). (2003). Textbook of small animal surgery (3rd ed.). Saunders.
Exams	: Samsar, E., & Akin, F. (2000). General surgery. Medipres. Yanik, K. General Surgery Lecture Notes (CD). Bursa, 2006,Görköl, O. S. Surgery Lecture Notes, Bursa, 2000, Görköl, O. S., Seyrek-İntas, D. Intro

Course Category	
Mathematics and Basic Sciences	Education
Engineering	Science
Engineering Design	Health
Social Sciences	Field
	100

Course Content		
Week	Topics	Materials
1	Introduction to veterinary oncology and basic terminology	
2	Tumor biology and carcinogenesis	
3	Classification of benign and malignant tumors	
4	Clinical examination methods in oncological cases	
5	Cytological diagnostic methods	
6	Histopathological evaluation methods	
7	Imaging techniques in veterinary oncology	
8	MIDTERM EXAM	
9	Skin and soft tissue tumors	
10	Mammary tumors	
11	Bone and joint tumors	
12	Hematopoietic system tumors	
13	Principles of surgical oncology	
14	Chemotherapy, radiotherapy, and multidisciplinary treatment approaches	1
15	Clinical oncology case evaluations and prognosis	
16	END OF SEMESTER EXAM	

Recommended Optional Programme Components
VET433 PET ANIMAL TUMOURS AND DIAGNOSTIC METHODS

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the biology, classification, and pathogenesis of tumors seen in pet animals.
C02	Compares the biological behaviors of benign and malignant tumors.
C03	Interprets cytological, histopathological, and imaging findings.
C04	Applies clinical examination methods in oncological cases.
C05	Plans treatment methods in accordance with surgical oncology principles.
C06	Evaluates chemotherapy and radiotherapy applications.
C07	Acts in accordance with ethical principles in veterinary

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	3	4	5	3	5	3	5	5	5	3	3	2	4	5	4
C01	5	5	4	4	3	3	4	3	5	2	4	3	3	2	2	2	3	3	3
C02	4	4	5	5	3	4	5	3	4	3	5	5	5	4	4	2	4	5	4
C03	4	5	5	5	3	4	5	3	5	3	4	5	5	3	3	2	4	5	5
C04	5	4	4	4	3	3	4	3	4	3	4	5	5	3	3	2	4	4	4
C05	4	4	5	5	3	4	5	3	5	4	5	4	5	3	3	2	4	4	5
C06	4	5	5	4	3	4	5	3	4	3	4	5	5	3	3	2	4	5	4
C07	5	4	4	3	3	3	4	3	5	4	5	4	4	3	4	2	3	3	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET443 PET ANIMAL TUMORS AND DIAGNOSTIC METHODS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET443	PET ANIMAL TUMORS AND DIAGNOSTIC METHODS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with knowledge, skills, and clinical evaluation competence regarding the biology, classification, clinical findings, diagnostic methods, and treatment approaches of tumors seen in pet animals.

Teaching Methods and Techniques:

This course content includes the etiopathogenesis, biological behavior, diagnostic methods, cytological and histopathological evaluations, imaging techniques, and medical/surgical treatment approaches of benign and malignant tumors seen in pet animals. In addition, clinical approaches and prognosis evaluations in oncological cases are examined.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Barış AKGÜL

Instructors:

Associate Prof.Dr. Mustafa Barış AKGÜL Asist Prof.Dr. Kadir SULUAsist Prof.Dr. Onur YILDIRIMProf.Dr. Nihat ŞINDAKProf.Dr. Mehmet SAĞLAM Associate Prof.Dr. Ali GÜLAYDIN

Assistants:

Research Assist. Maruf YILMAZ Research Assist. Bahar ERDENResearch Assist. Sevdet KILIÇ

Recommended Sources	
Textbook	: Fossum, T. W. (2019). Small animal surgery (5th ed.). Elsevier.
Resources	: Tobias, K. M., & Johnston, S. A. (2012). Veterinary surgery: Small animal (2nd ed.). Elsevier.
Documents	: Monnet, E. (Ed.). (2013). Small animal soft tissue surgery. Wiley-Blackwell.
Assignments	: Slatter, D. (Ed.). (2003). Textbook of small animal surgery (3rd ed.). Saunders.
Exams	: Samsar, E., & Akin, F. (2000). General surgery. Medipres. Samsar, E., Akin, F. General Surgery. Medipres, Ankara, 2006.Yanık, K. General Surgery Lecture Notes (CD). Bursa, 2006.Görkül, O. S. Surgery Lec

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to veterinary oncology and basic terminology		
2	Tumor biology and carcinogenesis		
3	Classification of benign and malignant tumors		
4	Clinical examination methods in oncological cases		
5	Cytological diagnostic methods		
6	Histopathological evaluation methods		
7	Imaging techniques in veterinary oncology		
8	MIDTERM EXAM		
9	Skin and soft tissue tumors		
10	Mammary tumors		
11	Bone and joint tumors		
12	Hematopoietic system tumors		
13	Principles of surgical oncology		
14	Chemotherapy, radiotherapy, and multidisciplinary treatment approaches		1
15	Clinical oncology case evaluations and prognosis		
16	END OF SEMESTER EXAM		

Recommended Optional Programme Components	
VET443 PET ANIMAL TUMORS AND DIAGNOSTIC METHODS	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the biology, classification, and pathogenesis of tumors seen in pet animals.
C02	Compares the biological behaviors of benign and malignant tumors.
C03	Interprets cytological, histopathological, and imaging findings.
C04	Applies clinical examination methods in oncological cases.
C05	Plans treatment methods in accordance with surgical oncology principles.
C06	Evaluates chemotherapy and radiotherapy applications.
C07	Acts in accordance with ethical principles in veterinary

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	3	4	5	3	5	3	5	5	5	3	3	2	4	5	4
C01	5	5	4	4	3	3	4	3	5	2	4	3	3	2	2	2	3	3	3
C02	4	4	5	5	3	4	5	3	4	3	5	5	5	4	4	2	4	5	4
C03	4	5	5	5	3	4	5	3	5	3	4	5	5	3	3	2	4	5	5
C04	5	4	4	4	3	3	4	3	4	3	4	5	5	3	3	2	4	4	4
C05	4	4	5	5	3	4	5	3	5	4	5	4	5	3	3	2	4	4	5
C06	4	5	5	4	3	4	5	3	4	3	4	5	5	3	3	2	4	5	4
C07	5	4	4	3	3	3	4	3	5	4	5	4	4	3	4	2	3	3	3

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET463 RATION PREPARATION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET463	RATION PREPARATION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach the principles of ration formulation according to the nutrient requirements of different animal species and to provide skills in balanced ration preparation.

Teaching Methods and Techniques:

Covers the principles of ration formulation for different animal species and balanced ration preparation methods.

Prerequisites:

Course Coordinator:

Instructors:

Prof.Dr. Tuncay TUFAN

Assistants:

Recommended Sources	
Textbook	: Doğan, Z. (2019). Etlik piliç rasyonu hazırlanmasında Excel tabanlı alternatif rasyon programının oluşturulması (Master's thesis, Kirsehir Ahi Evran U
Resources	: Doğan, Z. (2019). Etlik piliç rasyonu hazırlanmasında Excel tabanlı alternatif rasyon programının oluşturulması (Master's thesis, Kirsehir Ahi Evran U
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 25
Social Sciences	:	Field	: 75

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to ration formulation		
2	Classification of feedstuffs		
3	Nutrient contents of feedstuffs		
4	Nutrient requirements of animals		
5	Calculation of energy requirements		
6	Calculation of protein requirements		
7	Mineral and vitamin requirements		
8	Midterm exam		
9	Ration formulation using the Pearson square method		
10	Ration formulation for dairy cattle		
11	Ration formulation for beef cattle		
12	Ration formulation for sheep and goats		
13	Ration formulation for poultry		
14	Ration formulation for cats and dogs		
15	Use of computer programs in ration formulation		
16	final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Evaluates nutrient requirements according to animal species.
C02	Analyzes the nutrient contents of feed ingredients.
C03	Explains the principles of balanced ration formulation.
C04	Prepares rations for different animal species.
C05	Interprets the relationship between cost and productivity in rations.
C06	Applies methods used in ration formulation.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			48
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	3	3	4	3	4	4	3	3	1	3	3	4	4	3	4	4	4	3	4
C01	3	3	3	4	5	3	4	4	1	4	3	4	4	3	4	3	4	3	3
C02	3	3	3	3	3	3	3	3	1	2	2	3	2	3	5	2	3	2	3
C03	3	3	3	2	3	3	3	2	1	2	2	3	3	4	4	4	4	4	4
C04	3	3	2	2	2	2	4	2	1	4	3	4	4	3	2	4	3	4	2
C05	4	4	4	4	4	3	4	4	1	3	4	3	4	4	4	3	3	4	4
C06	4	3	3	3	4	4	3	4	1	3	3	4	4	4	4	4	4	3	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET439 REPRODUCTIVE ULTRASONOGRAPHY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET439	REPRODUCTIVE ULTRASONOGRAPHY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The objective of this course is to teach students the basic physics and principles of ultrasonography, and to equip them with theoretical knowledge and clinical diagnostic skills for the ultrasonographic imaging and interpretation of physiological and pathological conditions of reproductive organs in domestic animals.

Teaching Methods and Techniques:

There is no prerequisite for the course. Basic ultrasound physics, probes and imaging modes, artifacts, ultrasonography of the female and male reproductive tract, pregnancy diagnosis, fetal development tracking, and reproductive system pathologies.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Ahmet ESER

Instructors:

Asist Prof.Dr. Ahmet ESERAsist Prof.Dr. Aslıhan ÇAKIR CİHANGİROĞLU

Assistants:

Research Assist. Abdurrahman ALAKUŞResearch Assist. Kemal BAĞCI

Recommended Sources	
Textbook	: Ultrason Fiziği ve İneklerde Reprodüktif Ultrasonografi (Dinç DA); Veterinary Reproductive Ultrasonography (Horse, Cattle, Sheep, Goat, Pig, dog,cat
Resources	: Evcil Hayvanlarda Doğum ve İnfertilite (Alaçam E).,Ultrason Fiziği ve İneklerde Reprodüktif Ultrasonografi (Dinç DA); Veterinary Reproductive Ultra
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Basic Techniques Of Techniques.	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
2	Ultrasound Physics-I (Physical Properties Of Sound)Ultrasound Physics-II (show formats-modes)Ultrasound physics-III (arti	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
3	Examination techniques with ultrasonography.	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
4	Technological Developments in Ultrasonography-ITechnological Developments in Ultrasonography-II	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
5	Ultrasonography of the Genital Organs in the Cows (Examination of Ovariums)Ultrasonography of Genital Organs in the Co	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
6	Ultrasonography of Genital Organs in the Cow (Ultrasonographic Biometry and Fetometry)	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
7	OVUM PICK-UP / OPU, Folliculosestesis in cow	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
8	Midterm exam	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
9	Use of Ultrasonography to Increase Reproductive Efficiency in Cows	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
10	Use of Ultrasonography for Reproductive Purpose in Sheep and Goats	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
11	The Use of Ultrasonography for Reproductive Purposes in Mares	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
12	The Use of Ultrasonography for Reproductive Purposes in Cat and Dogs	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
13	Use of Ultrasonography in Reproductive Purposes in Pigs.	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
14	Ultrasonography of the mammary in domestic animals	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
15	Use of Other Imaging Techniques for Reproductive Purposes	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	
16	End of Term Exam	Course of the study subjects planned to Ultrason Fiziği ve İneklerde Reprodüktif	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explain the fundamental principles of ultrasound physics and image formation mechanisms.
C02	Operate ultrasound equipment and imaging modes (B-mode, Doppler, etc.) properly according to the purpose.
C03	Perform early pregnancy diagnosis, fetal viability assessment, and developmental tracking in a clinical setting.
C04	Interpret ultrasonographic changes in the ovaries and uterus during the physiological reproductive cycle in domestic animals.
C05	Analyze pathological findings of the male and female reproductive systems using ultrasonographic images.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P16	Understand the relationships between concepts and concepts related to the field
P18	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P15	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P12	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P11	All surgical interventions in the field of scientific methods and meticulous
P08	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P07	In animal breeding and feeding areas will have theoretical and practical knowledge
P06	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P05	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P10	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P14	Understand the national and international legislation about the area
P19	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			58
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
C01	5	3	1	3	1	1	1	1	1	1	1	1	2	1	1	2	1	1	2
C02	4	3	2	5	2	1	1	1	1	1	1	1	3	1	3	2	1	1	2
C03	4	3	3	5	1	1	2	4	3	1	2	1	5	1	1	5	2	1	1
C04	4	3	3	4	2	1	1	3	2	1	1	1	4	1	1	5	1	1	1
C05	4	3	5	5	1	2	3	2	3	1	2	1	5	1	2	4	2	2	1

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET455 Treatment of endotoxemia and septicemia in ruminants					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET455	Treatment of endotoxemia and septicemia in ruminants	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To teach the pathophysiology, clinical findings, diagnostic methods and pharmacological/clinical treatment approaches of endotoxemia and septicemia cases seen in ruminants; to ensure that students learn effective and evidence-based treatment practices in these cases.

Teaching Methods and Techniques:

• Introduction to endotoxemia and septicemia: definitions, significance, and epidemiology • Structure, sources, and pathophysiological effects of endotoxins • Septicemia agents (Gram-negative/positive bacteria, toxins) • Pathogenesis and immune response • Clinical findings and differential diagnosis • Diagnostic methods (laboratory, imaging, autopsy findings) • Pharmacological treatment approaches (antibiotics, NSAIDs, corticosteroids) • Supportive treatments (fluid and electrolyte therapy, plasma, oxygen supplementation) • Antitoxic and immunological treatments (antiserum, immunomodulators) • Nutrition and metabolic support • Complications and prognosis • Case studies: field examples • Preventive medicine and prophylaxis (vaccines, management measures) • Endotoxemia/septicemia in a One Health perspective (animal-human-environment interaction)

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources	
Textbook	:
Resources	: Radostits OM, Gay CC, Hinchcliff KW, Constable PD. Veterinary Medicine: A Textbook of the Diseases of Cattle, Horses, Sheep, Pigs, and Goats,Con
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Endotoksemi ve septiseminin tanımı, epidemiyolojisi ve önemi		
2	Endotoksinlerin yapısı ve biyokimyasal etkileri		
3	Septiseminin etkenleri ve patogenezi		
4	Bağırsıklık sistemi yanıtı ve sitokin fırtınası		
5	Klinik bulgular ve diferansiyel tanı		
6	Laboratuvar tanı yöntemleri (hemoqram, biyokimya, kan gazı vb.)		
7	Otopsi ve patolojik bulgular		
8	Farmakolojik tedavi I – Antibiyotikler ve duyarlılık testleri		
9	Farmakolojik tedavi II – Antiinflatuvarlar, NSAII, kortikosteroidler		
10	Destekleyici tedaviler I – Sıvı ve elektrolit dengesi		
11	Destekleyici tedaviler II – Plazma, oksijen, vitamin-mineral desteği		
12	Antitoksik ve immünolojik tedavi yöntemleri		
13	Koruyucu hekimlik: aşılamarlar, sürü yönetimi ve risk faktörlerinin azaltılması		
14	Vaka analizleri ve güncel literatür tartışması		

Recommended Optional Programme Components	
VET309 PHARMACOLOGY-I	
VET304 PHARMACOLOGY-II	

Course Learning Outcomes

No	Learning Outcomes
C01	• Explains the definition, pathogenesis, and epidemiology of endotoxemia and septicemia. • ??Interprets the biological effects of endotoxins and immune system responses. • Recognizes clinical fin

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

[illegible]

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		%0

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			0
ECTS Credit of the Course			0

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant



Siirt University

FACULTY OF VETERINARY MEDICINE
Veterinary Medicine

VET467 EFFECT OF NUTRITION ON FERTILITY AND MILK YIELD IN DAIRY COWS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET467	EFFECT OF NUTRITION ON FERTILITY AND MILK YIELD IN DAIRY COWS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach the effects of nutrition on fertility and milk yield in dairy cows and to explain feeding practices aimed at improving production performance.

Teaching Methods and Techniques:

Covers the effects of nutrition on fertility and milk yield in dairy cows.

Prerequisites:

Course Coordinator:

Instructors:

Prof.Dr. Tuncay TUFAN

Assistants:

Recommended Sources	
Textbook	: Başalan, M., & Şen, G. (2018). Süt İneklerinde Beslenmenin Döl Verimine Etkisi. Lalahan Hayvancılık Araştırma Enstitüsü Dergisi, 58(3), 7-14.
Resources	: Başalan, M., & Şen, G. (2018). Süt İneklerinde Beslenmenin Döl Verimine Etkisi. Lalahan Hayvancılık Araştırma Enstitüsü Dergisi, 58(3), 7-14.
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 25
Social Sciences	:	Field	: 75

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to dairy cattle production		
2	Digestive system and physiology in dairy cows		
3	Nutrient requirements of dairy cows		
4	Energy metabolism and energy requirements		
5	Protein metabolism and protein requirements		
6	Mineral and vitamin requirements		
7	Roughages and their importance in dairy cattle nutrition		
8	midterm exam		
9	Feeding practices in calves		
10	Heifer feeding programs		
11	Feeding of lactating dairy cows		
12	Feeding of dry cows		
13	Effects of nutrition on milk yield		
14	Effects of nutrition on fertility		
15	Nutrition-related metabolic diseases		
16	Final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Analyzes the effects of nutrition on milk yield in dairy cows.
C02	Explains the effects of nutrition on fertility in dairy cows.
C03	Evaluates the nutrient requirements of dairy cows.
C04	Prepares appropriate feeding programs according to lactation stages.
C05	Interprets production losses related to nutrition.
C06	Applies feeding strategies to improve productivity in dairy cows.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			48
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	5	4	4	4	4	4	5	5	5	4	5	4	5	5	5	4	4	5
C01	4	4	4	5	3	5	4	3	4	4	3	4	3	4	5	5	4	4	4
C02	3	5	5	5	4	5	5	5	4	3	5	4	4	5	5	5	3	5	4
C03	4	5	5	5	5	3	5	5	3	5	4	5	4	4	3	5	5	5	5
C04	4	5	3	3	3	5	5	5	4	5	5	5	4	4	4	4	4	4	4
C05	5	5	5	5	5	4	4	4	4	3	4	5	4	5	5	5	4	4	5
C06	4	4	4	5	5	5	5	4	5	5	4	3	5	5	4	4	5	5	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET415 TOXICOLOGY AND ENVIRONMENTAL PROTECTION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET415	TOXICOLOGY AND ENVIRONMENTAL PROTECTION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The objectives of this course are given information to student about following subjects: The terms and definitions of toxicology, The sources, chemical and physical properties of poisonous (toxic) substances The diagnostic and treatment approaches in toxicosis

Teaching Methods and Techniques:

Introduction to toxicology, mechanism of actions, toxicokinetic, toxicodynamics, factors that affect toxicity, diagnosis of toxicosis, general and specific therapy approaches in the treatment of toxicosis, environmental toxicology, phytotoxins, zootoxins, heavy metals and other inorganic toxic agents, mycotoxins, pesticides, organic toxic agents

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Devran COŞKUN

Instructors:

Associate Prof.Dr. Devran COŞKUN

Assistants:

Recommended Sources	
Textbook	: Veteriner Hekimliğinde Toksikoloji (Ed:Sezai Kaya, Medisan Yayınevi)
Resources	: Toksikoloji, Şener S & Yıldırım M, 2000 .
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to ToxicologyMechanism of actions		Veteriner Hekimliğinde Toksikoloji (Ed:S
2	ToxicokineticToxicodynamics		Veteriner Hekimliğinde Toksikoloji (Ed:S
3	Factors that affect toxicityDiagnosis of toxicosis		Veteriner Hekimliğinde Toksikoloji (Ed:S
4	General and specific therapy approaches in the treatment of toxicosis		Veteriner Hekimliğinde Toksikoloji (Ed:S
5	Heavy metals and other inorganic toxic agents		Veteriner Hekimliğinde Toksikoloji (Ed:S
6	Organic toxic agents		Veteriner Hekimliğinde Toksikoloji (Ed:S
7	Phytotoxins 1		Veteriner Hekimliğinde Toksikoloji (Ed:S
8	Middle Exam		
9	Phytotoxins 2		Veteriner Hekimliğinde Toksikoloji (Ed:S
10	Pesticides 1		Veteriner Hekimliğinde Toksikoloji (Ed:S
11	Pesticides 2		Veteriner Hekimliğinde Toksikoloji (Ed:S
12	Pesticides 3Mycotoxins 1		Veteriner Hekimliğinde Toksikoloji (Ed:S
13	Mycotoxins 2		Veteriner Hekimliğinde Toksikoloji (Ed:S
14	Mycotoxins 3 ()		Veteriner Hekimliğinde Toksikoloji (Ed:S
15	Foodborne Toxins		Veteriner Hekimliğinde Toksikoloji (Ed:S

Course Learning Outcomes	
No	Learning Outcomes
C01	Poison and properties of poisons
C03	Types of toxicities and metabolism of poisons

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	6	6
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	12	12
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	4	4	4	4	1	2	2	2	1	3	1	5	1	3	4	4
C01	5	5	5	4	4	4	4	1	2	2	2	2	3	1	5	2	3	4	4
C03	5	5	5	4	4	4	4	1	2	2	2	2	3	1	5	1	4	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET417 VETERINARY MEDICINE PUBLIC HEALTH					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET417	VETERINARY MEDICINE PUBLIC HEALTH	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to provide students with fundamental knowledge of veterinary public health, the One Health approach, food toxicology, antibiotic resistance, and zoonotic diseases, and to enable them to evaluate issues related to the protection of public health.

Teaching Methods and Techniques:

The course includes the basic concepts and scope of veterinary public health, the relationship between veterinary public health and One Health, food toxicology (mycotoxins, plant and animal toxins), antibiotic resistance, and zoonotic diseases.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Kübranur YILDIZ BAYHAN

Instructors:

Asist Prof.Dr. Kübranur YILDIZ BAYHAN Asist Prof.Dr. Sefa ÜNER

Assistants:

Recommended Sources	
Textbook	: 1) Tayar, M.; Yarsan, En. (2024). Veteriner Hakimliği Veteriner Halk Sağlığı Akıl Noktları. Güneş Tıp Kitabevleri.
Resources	: 2) Anđ,Ö. (2011). Zoonozlar Hayvandan İnsana Bulaşabilen İnfeksiyon Hastalıkları. Nobel Tıp Kitabevleri
Documents	: Ecosystems and Human Health, Toxicology and Environmental Hazards (PHILP, R.B., USA) 2001.
Assignments	: Tayar, M.; Yarsan, En. (2024). Veteriner Hakimliği Veteriner Halk Sağlığı Akıl Noktları. Güneş Tıp Kitabevleri. Anđ,Ö. (2011). Zoonozlar Hayvandan İ
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 70
Social Sciences	:	Field	: 30

Course Content		
Week	Topics	Study Materials Materials
1	Definitions, Scope of Veterinary Public Health	The subjects of the future week have been
2	Relationship Between Veterinary Public Health and One Health	The subjects of the future week have been
3	Food Toxicology (Mycotoxins, Plant Toxins, Animal Toxins)	The subjects of the future week have been
4	Food Toxicology (Mycotoxins, Plant Toxins, Animal Toxins)	The subjects of the future week have been
5	Food Toxicology (Mycotoxins, Plant Toxins, Animal Toxins)	The subjects of the future week have been
6	Antibiotic Resistance	The subjects of the future week have been
7	National and international legislation	The subjects of the future week have been
8	Midterm examination	
9	National and international legislation	The subjects of the future week have been
10	Zoonotic Diseases	The subjects of the future week have been
11	Zoonotic Diseases	The subjects of the future week have been
12	Zoonotic Diseases	The subjects of the future week have been
13	Zoonotic Diseases	The subjects of the future week have been
14	Zoonotic Diseases	The subjects of the future week have been
15	Zoonotic Diseases	The subjects of the future week have been
16	Mid-term exam	The subjects of the future week have been

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the basic concepts of veterinary public health.
C02	Evaluates the relationship between veterinary public health and the One Health approach.
C03	Explains the basic principles of food toxicology.
C04	Evaluates the importance of mycotoxins, plant toxins, and animal toxins in terms of public health.
C05	Explains the mechanisms of antibiotic resistance and its effects on public health.
C06	Identifies zoonotic diseases and evaluates prevention methods.
C07	Explains the importance of veterinary public health practices in public health.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
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P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	14	14
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	18	18
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	5	2	1	5	3	4	1	1	3	3	1	3	3	5	1	3	2	3
C01	5	5	2	1	5	3	4	1	1	3	3	1	2	2	5	1	3	2	2
C02	4	5	3	1	5	3	4	1	1	3	3	1	2	2	5	1	3	2	2
C03	4	5	2	1	5	3	4	1	1	3	3	1	2	2	5	1	4	2	3
C04	4	5	2	1	5	3	4	1	1	3	3	1	2	2	5	1	4	2	3
C05	4	5	2	1	5	3	5	1	1	3	3	1	4	3	5	1	3	3	4
C06	4	5	2	1	5	4	5	1	1	3	3	1	4	5	5	1	3	4	4
C07	4	5	2	1	5	3	4	1	1	4	3	1	3	3	5	1	3	2	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET457 POISONOUS PLANTS AND THEIR SPREAD IN OUR COUNTRY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
7	VET457	POISONOUS PLANTS AND THEIR SPREAD IN OUR COUNTRY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to identify the poisonous plants commonly found in our country, to understand their toxic components, to evaluate the clinical pictures they cause in animals, to learn the correct sampling and toxicological analysis methods, and to provide information on the precautions to be taken in terms of preventive medicine and public health.

Teaching Methods and Techniques:

• The role and importance of poisonous plants in toxicology • Main toxic compounds found in poisonous plants (alkaloids, glycosides, nitrate/nitrites, photosensitizers, etc.) • Common poisonous plants in Turkey and their geographic distribution • Plants causing poisoning in ruminants, horses, dogs, and other domestic animals • Clinical findings and autopsy findings • Laboratory diagnosis and toxicological analysis methods • Treatment principles and supportive approaches for poisoning • Preventive medicine and feed management measures • Economic and public health impacts of poisonous plants • Case examples and field experiences

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources

Textbook	:	
Resources	:	Gupta RC. Veterinary Toxicology: Basic and Clinical Principles, Knight AP, Walter RG. A Guide to Plant Poisoning of Animals in North America, Cheek
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:		Education	:	
Engineering	:		Science	:	
Engineering Design	:		Health	:	100
Social Sciences	:		Field	:	

Course Content

Week	Topics	Study Materials	Materials
1	Zehirli bitkilere giriş: tanım, önemi, toksikolojideki yeri		
2	Bitkisel toksinlerin genel sınıflandırması (alkaloidler, glikozitler, fenoller vb.)		
3	Türkiye florasında yaygın zehirli bitkilerin coğrafi dağılımı		
4	Alkaloid içeren zehirli bitkiler ve toksik etkileri		
5	Glikozit içeren zehirli bitkiler (kardiyak, siyanojenetik, saponin vb.)		
6	Nitrat, nitrit ve fotosensitizan madde içeren bitkiler		
7	Hepatotoksik ve nefrotoksik bitkiler		
8	Nörotoksik etki gösteren bitkiler		
9	Ruminantlarda zehirlenmelere yol açan bitkiler ve klinik tabloları		
10	At, kedi, köpek ve diğer hayvanlarda önemli bitki zehirlenmeleri		
11	Laboratuvar tanısı ve toksikolojik analiz yöntemleri		
12	Zehirli bitkilerde tedavi prensipleri ve destekleyici yaklaşımlar		
13	Koruyucu hekimlik uygulamaları ve yem yönetimi		
14	Türkiye'den vaka analizleri ve saha deneyimlerinin tartışılması		

Recommended Optional Programme Components

VET415 TOXICOLOGY AND ENVIRONMENTAL PROTECTION

Course Learning Outcomes

No Learning Outcomes

C01 • Explains the toxicological importance of poisonous plants. • Classifies plant toxins and explains their mechanisms of action. • Identifies common poisonous plants found in Turkey and interprets th

Program Learning Outcomes

No Learning Outcome

P04 Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17 Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13 In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09 Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03 The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02 Contains up to date information in the field of textbooks, magazines and follow the web site
P01 Understand the relationships between concepts and concepts related to the field
P16 Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18 The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15 Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12 All surgical interventions in the field of scientific methods and meticulous
P11 Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08 In animal breeding and feeding areas will have theoretical and practical knowledge
P07 Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06 Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05 Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10 Understand the national and international legislation about the area
P14 Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19 Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET438 EMERGENCY CLINIC MEDICINE					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET438	EMERGENCY CLINIC MEDICINE	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

In this course; it is aimed for students to gain the ability of systematic approach to emergency cases (triage), to perform rapid diagnosis and stabilizing interventions in life-threatening situations, and to manage intensive care processes.

Teaching Methods and Techniques:

The course covers triage principles, shock management, cardiopulmonary resuscitation (CPR), approach to the trauma patient, and maintaining fluid-electrolyte balance in emergencies.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Associate Prof.Dr. Gülşah AKGÜL

Assistants:

Research Assist. mahsum Başak

Recommended Sources	
Textbook	:
Resources	: Veterinary Pharmacology and Therapeutics, Veteriner Hekimliğinde Farmakoloji, Hand book of Veterinary Drugs, The physiological basis of veterina
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Emergency Service Organization and Triage Principles		
2	Primary Survey (ABCD) and Quick Look		
3	Shock Pathophysiology and Hypovolemic Shock Management		
4	Cardiopulmonary Resuscitation (CPR) - Basic Life Support		
5	CPR - Advanced Life Support and Defibrillation		
6	Approach to Trauma Patients and Stabilization		
7	Respiratory Emergencies and Oxygen Therapy Methods		
8	Midterm		
9	Fluid Therapy and Transfusion Medicine		Veteriner Hekimliğinde İlaç Kullanımına İ
10	Acid-Base and Electrolyte Imbalance Disorders		
11	Neurological Emergencies and Head Traumas		
12	Acute Abdomen and Gastrointestinal Emergencies (GDV etc.)		
13	Urinary and Endocrine Emergencies (Urethral Obstruction, DKAs)		
14	Toxicological Emergencies and Antidote Usage		
15	Environmental Emergencies (Heatstroke, Hypothermia, Burns)		
16	FINAL EXAM		

Course Learning Outcomes	
No	Learning Outcomes
C01	Applies the emergency triage system (ABCD rule) quickly and accurately.
C02	Performs basic and advanced life support (CPR) according to current RECOVER guidelines.
C03	Manages stabilization priorities in trauma patients based on scientific data.
C04	Performs basic and advanced life support (CPR) according to current RECOVER guidelines.
C05	Interprets acid-base and electrolyte imbalances according to laboratory data.
C06	Demonstrates rapid decision-making ability within an ethical framework in surgical and medical emergencies.
C07	Calculates doses and dosages of drugs (vasoactives, etc.) used in emergencies.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	10	2	20
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	3	3
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	3	3
Total Work Load			54
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	2	3	1	3	3	1	3	3	3	1	4	2	2	1	2	2	4
C01	5	5	5	4	1	3	3	3	4	3	3	3	5	3	3	2	4	4	5
C02	5	5	5	5	1	3	2	3	3	4	5	4	5	4	4	2	3	4	5
C03	5	5	5	4	1	4	4	3	4	5	5	5	5	5	5	2	3	5	4
C04	5	5	5	5	1	5	4	3	5	4	5	5	5	4	4	2	3	5	5
C05	5	4	5	4	1	4	3	3	4	3	4	3	5	3	3	2	3	4	4
C06	5	5	5	5	1	3	3	3	3	3	4	4	5	4	4	2	4	5	5
C07	5	5	5	4	1	3	3	3	4	3	3	3	5	3	3	2	5	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET402 FOOT DISEASES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET402	FOOT DISEASES	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to provide students with knowledge, skills, and clinical evaluation competence regarding foot anatomy, biomechanics, etiopathogenesis, diagnosis, treatment methods, and preventive medicine practices of foot diseases in large and small animals.

Teaching Methods and Techniques:

This course content includes foot anatomy and physiology, hoof structure, lameness examination, etiology of foot diseases, diagnostic methods, medical and surgical treatment approaches, and preventive foot health practices. In addition, the effects of foot diseases on animal welfare and productivity are evaluated.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Barış AKGÜL

Instructors:

Associate Prof.Dr. Mustafa Barış AKGÜL Asist Prof.Dr. Kadir SULUProf.Dr. Mehmet SAĞLAMAssociate Prof.Dr. Ali GÜLAYDINProf. Dr. Nihat ŞINDAKAsist Prof.Dr. Onur YILDIRIM

Assistants:

Research Assist. Maruf YILMAZ Research Assist. Sevdet KILIÇ Research Assist. Bahar ERDEN

Recommended Sources	
Textbook	: Blowey, R. (1993). Cattle lameness and hoofcare: An illustrated guide. Farming Press.
Resources	: van Amstel, S. R., & Shearer, J. K. (2006). Manual for treatment and control of lameness in cattle. Blackwell Publishing.
Documents	: Weaver, A. D., St. Jean, G., & Steiner, A. (2005). Bovine surgery and lameness (2nd ed.). Blackwell Publishing.
Assignments	: Greenough, P. R. (2007). Bovine laminitis and lameness. Elsevier.
Exams	: İzci, C. (2006). Sığır ayak hastalıkları. Selçuk Üniversitesi Veteriner Fakültesi Yayınları. Blowey, R. (1993). Cattle lameness and hoofcare: An illustrated guide. Farming Press. van Amstel, S. R., & Shearer, J. K. (2006). Manual for treat

Course Category	
Mathematics and Basic Sciences	:
Engineering	:
Engineering Design	:
Social Sciences	:
Education	:
Science	:
Health	: 100
Field	:

Course Content	
Week	Topics
1	Anatomy of claw and etiology of diseases
2	Examination of claw and interdigital diseases
3	Diseases of corium unguis
4	Surgery of foot
5	Healthy claws and its physiology
6	Trimming, bandage and claw bath
7	Foot anatomy of horse
8	MIDTERM EXAM
9	Hoof deformities in horses
10	Examination of hoof and extremities
11	Hoof trimming
12	Hoof diseases
13	Shoes
14	Claw diseases in sheep
15	Claw diseases in domestics
16	END OF SEMESTER EXAM

Recommended Optional Programme Components
VET402 FOOT DISEASES

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the anatomy of the bovine foot, horn formation, and biomechanics.
C02	Describes the etiology, pathogenesis, and classification of hoof diseases.
C03	Explains the clinical signs of laminitis, infectious hoof diseases, and traumatic lesions.
C04	Applies hoof examination and lameness evaluation techniques.
C05	Performs hoof trimming and basic treatment procedures.
C06	Evaluates hoof diseases at both individual and herd levels and develops control strategies.
C07	Ensures sustainable hoof health through preventive veterinary approaches.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			32
ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	3	4	5	4	4	3	4	4	4	3	3	2	3	4	4
C01	5	5	5	5	3	4	5	4	5	2	4	5	4	3	3	2	2	5	3
C02	4	5	5	4	3	5	5	3	5	3	4	5	5	3	4	2	2	4	4
C03	4	5	5	4	3	5	5	3	5	2	5	5	5	4	4	2	2	4	5
C04	5	5	4	5	2	5	4	3	4	2	5	5	5	4	4	2	2	4	4
C05	5	4	4	5	2	5	4	3	5	2	5	4	5	3	4	2	2	4	4
C06	4	4	5	5	4	4	4	4	5	3	5	4	5	4	5	2	3	4	4
C07	5	5	5	4	4	5	5	4	5	3	5	4	5	3	5	2	3	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET450 ENVIRONMENTAL TOXICOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET450	ENVIRONMENTAL TOXICOLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To teach the toxic effects of environmental pollutants (heavy metals, pesticides, industrial chemicals, mycotoxins, etc.) on animal and human health, and to raise awareness of risk assessment within the framework of environmental health, ecotoxicology, food safety and the "One Health" approach.

Teaching Methods and Techniques:

• Definition and scope of environmental toxicology • Pathways of contaminants into the environment • Toxic effects of heavy metals • Pesticides and insecticides • Industrial chemicals and solvents • Mycotoxins and algal toxins • Endocrine disruptors • Effects of water, air, and soil pollution on animal health • Bioaccumulation and biomagnification • Ecotoxicology and biomarkers • Environmental toxicogenomic approaches • Food safety and residues • Risk assessment methods in environmental toxicology • One Health perspective

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources	
Textbook	:
Resources	: Hodgson E. A Textbook of Modern Toxicology, Walker CH, Sibly RM, Hopkin SP, Peakall DB. Principles of Ecotoxicology, Hayes WJ, Laws ER. Handb
Documents	:
Assignments	:
Exams	:

Course Category	
Mathematics and Basic Sciences	:
Engineering	:
Engineering Design	:
Social Sciences	:
Education	:
Science	:
Health	: 100
Field	:

Course Content		
Week	Topics	Study Materials Materials
1	Cevre toksikolojisine giriş – Tanımlar, tarihçe, önemi	
2	Cevresel kirlenmelerin çevrede yayılımı ve döngüleri	
3	Ağır metaller I – Kurşun, cıva, arsenik	
4	Ağır metaller II – Kadmium, bakır, çinko	
5	Pestisitler I – Organofosfatlar, karbamatlar	
6	Pestisitler II – Organoklorlu bileşikler, piretroidler	
7	Endüstriyel kimyasallar ve solventler – PCB'ler, dioksinler, PAH'lar	
8	Endüstriyel kimyasallar ve solventler – PCB'ler, dioksinler, PAH'lar	
9	Endokrin bozucular ve veteriner halk sağlığına etkileri	
10	Su, hava ve toprak kirliliğinin hayvan sağlığına etkileri	
11	Ekotoksikoloji ve biyomarkör kullanımı	
12	Gıda güvenliği: kalıntılar, biyobirikim ve biyomagnifikasyon	
13	Cevre toksikolojisinde risk değerlendirme yöntemleri	
14	Tek Sağlık yaklaşımı ve güncel çevre toksikoloji sorunları (vaka tartışmaları, saha örnekleri)	

Recommended Optional Programme Components	
VET415 TOXICOLOGY AND ENVIRONMENTAL PROTECTION	

Course Learning Outcomes	
No	Learning Outcomes
C01	• Explains the scope and importance of environmental toxicology. • Defines the classes and sources of environmental pollutants. • Analyzes the toxic effects of heavy metals, pesticides, industrial d

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	5	1	5
Assignment	0	%0	Assignments	2	1	2
Attendance	0	%0	Presentation	2	1	2
Practice	0	%0	Mid-terms	1	3	3
Project	0	%0	Practice	7	1	7
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	7	1	7
			Final examination	1	6	6
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	5	5	4	5	5	5	5	4	5	4	5	5	5	5	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET442		BEHAVIORAL DISORDERS			
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET442	BEHAVIORAL DISORDERS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

In this course; it is aimed for students to differentiate between normal and abnormal behavior patterns in domestic animals, understand the etiology of behavioral disorders, and develop treatment strategies using science-based modification methods.

Teaching Methods and Techniques:

The course covers the diagnosis, neurobiological basis, and behavioral/pharmacological treatment approaches for aggression, fear, anxiety, and stereotypic behaviors in cats, dogs, and farm animals.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Associate Prof.Dr. Gülşah AKGÜL

Assistants:

Research Assist. mahsum Başak

Recommended Sources	
Textbook	: İmren, H. Y., & Şahal, M. (1991). Veteriner iç hastalıkları. Medisan.Ankara.
Resources	: Gül, Y. (2022). Geviş getiren hayvanların iç hastalıkları (Sığır, koyun-keçi). Medipres. Malatya.
Documents	: Ceylan, E. (Ed.). (2025). Kedi köpek iç hastalıkları. Akademisyen Kitabevi.Ankara.
Assignments	: Aytuğ, N. (2021). Köpek ve kedilerin iç hastalıkları klinik el kitabı. Medipres.Malatya.
Exams	: İmren, H. Y. (1998). Kedi ve köpek hastalıkları. Medisan.Ankara.

Course Category	
Mathematics and Basic Sciences	:
Engineering	:
Engineering Design	:
Social Sciences	:
Education	:
Science	: 0
Health	: 100
Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to Ethology and Basic Concepts		
2	Neurobiology of Behavior and Learning Theories		
3	History Taking and Examination Techniques in Behavior Clinics		
4	Types of Aggression in Dogs and Their Management		
5	Aggression and Elimination Disorders in Cats		
6	Fear, Phobia, and Separation Anxiety		
7	Compulsive Disorders and Stereotypies		
8	MIDTERM EXAM		
9	Socialization and Developmental Issues in Young Animals		
10	Cognitive Dysfunction Syndrome in Geriatric Animals		
11	Welfare and Behavioral Problems in Farm Animals		
12	Behavioral Disorders and Stable Vices in Horses		
13	Psychopharmacology: Drug Classes and Clinical Use		
14	Pheromone Therapy and Supportive Nutritional Strategies		
15	Environmental Enrichment and Preventive Applications		
16	FINAL EXAM		

Recommended Optional Programme Components	
VET404 INTERNAL MEDICINE-III	

Course Learning Outcomes	
No	Learning Outcomes
C01	Describes the neuroanatomical and hormonal basis of animal behavior.
C02	Clinically differentiates between normal behavior and pathological behavior disorders.
C03	Analyzes potential underlying medical causes of behavioral disorders.
C04	Performs risk assessment in cases of aggression and anxiety.
C05	Creates case-based behavior modification plans (desensitization, etc.).
C06	Evaluates the indications and side effects of psychopharmacological drugs.
C07	Manages client counseling within the framework of animal welfare and ethical principles.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
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P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
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P12	All surgical interventions in the field of scientific methods and meticulous
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P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	10	2	20
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	3	3
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	3	3
Total Work Load			54
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	2	3	5	4	5	1	1	2	1	1	1	1	3	1	4	3	3
C01	5	4	5	4	1	4	3	3	4	3	4	3	5	3	3	2	3	4	4
C02	5	5	5	5	1	5	4	3	5	4	5	5	5	4	4	2	3	5	5
C03	5	5	5	4	1	3	3	3	4	3	3	3	5	3	3	2	4	4	5
C04	5	5	5	4	1	4	4	3	4	5	5	5	5	5	2	3	5	4	4
C05	5	5	5	4	1	3	3	3	4	3	3	3	5	3	3	2	5	5	5
C06	5	4	5	5	1	3	3	3	3	4	5	4	5	4	4	2	3	4	5
C07	5	5	5	5	1	3	3	3	3	3	4	4	5	4	4	2	4	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET406		BIRTH-II			
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET406	BIRTH-II	3	3	3

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to provide veterinary medicine students with knowledge, skills, and clinical approaches to the physiology of childbirth in domestic animals, difficult births, assisted births, the physiology and pathology of the puerperal period, metabolic diseases, and the postpartum period.

Teaching Methods and Techniques:

The course content includes the normal mechanism and stages of parturition in domestic animals, dystocia, obstetrical examination methods, obstetrical interventions, cesarean section procedures, and postpartum care practices. In addition, neonatal care, obstetrical problems associated with infertility, and clinical approaches for field applications are discussed.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Öznur YILMAZ KOÇ

Instructors:

Asist Prof.Dr. Öznur YILMAZ KOÇ

Assistants:

Research Assist. Merve BULUT

Recommended Sources

Textbook	:	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
Resources	:	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	: 0

Course Content

Week	Topics	Study Materials	Materials
1	Birth	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
2	Dystocia	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
3	Assisting with childbirth	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
4	Mother and offspring care	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
5	Puerperal period physiology	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
6	Puerperal period problems	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
7	Vaginal prolapse and uterine prolapse cases	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
8	Midterm Exam		
9	Retentio secundinarum and uterine infections	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
10	metabolic diseases	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
11	Infertility in cows	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
12	Infertility in mare	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
13	Infertility in carnivores	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
14	Cystic endometrial hyperplasia and pyometra	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
15	Abortions	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,
16	Final Exam	Course of the study subjects planned to 1)	Semacan, A., Kaymaz, M., Findik, M.,

Recommended Optional Programme Components

VET406 BIRTH-II

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the physiology of parturition and the stages of labor in domestic animals.
C02	Evaluates the indications for cesarean section and interprets surgical procedures.
C03	Analyzes the causes of dystocia and determines appropriate obstetrical approaches.
C04	Applies obstetrical examination methods and assisted delivery techniques.
C05	Plans postpartum and neonatal care practices.
C06	Manages the clinical decision-making process in obstetrical cases.
C07	Acts in accordance with ethical principles and professional responsibilities in obstetrical practices.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			88
ECTS Credit of the Course			3

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	5	4	4	5	5	4	3	5	4	5	4	4	3	3	4	4
C01	4	3	5	3	3	4	4	5	4	2	3	2	4	2	2	2	2	2	3
C02	3	3	5	4	3	4	5	4	4	2	3	3	5	4	3	2	2	3	4
C03	3	2	5	5	3	4	5	4	4	2	3	5	5	4	4	3	3	4	4
C04	3	3	4	4	3	4	4	4	3	2	3	4	5	3	3	2	2	3	3
C05	4	3	4	4	4	4	4	5	4	3	4	3	5	4	4	3	3	4	4
C06	4	3	5	5	4	4	5	5	5	3	4	4	5	5	4	4	4	4	4
C07	4	4	4	3	4	3	3	4	3	5	5	2	4	3	5	4	3	3	3

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET408 MEAT INSPECTION AND TECHNOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET408	MEAT INSPECTION AND TECHNOLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to teach students ante-mortem and post-mortem meat inspection practices, fundamental meat technology processes, principles of meat hygiene and safety, and to provide professional competencies for the protection of public health.

Teaching Methods and Techniques:

This course covers ante-mortem and post-mortem inspection methods, carcass evaluation criteria, meat hygiene, basic processes applied in meat technology, meat-borne zoonoses, quality control practices, and preservation methods in meat products.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Kübranur YILDIZ BAYHAN

Instructors:

Asist Prof.Dr. Sefa ÜNER

Assistants:

Recommended Sources	
Textbook	: 1.Anar,Ş. Et ve Et Ürünleri Teknolojisi, Dora Yayınevi, Bursa, 2010.
Resources	: 2.Tayar, M. Et Muayenesi, Bursa, 2011.
Documents	: 3. Arslan, A. (2002). Et muayenesi ve et ürünleri teknolojisi. Medipres.
Assignments	: 3. Hui,Y.H.,Nip,W.,Rogers,R.W.,Young,O.A. Meat Science and Applications, Marcel Dekker, Inc, Newyork, 2001.
Exams	: 4.Gracey, J., Collins, D.S., Huey, R. Meat Hygiene, W.B. Saunders Comp., London,1999.
	: 5. Anonymus. Good Practices for the Meat Industry, FAO Animal Production and Health Manuals, 2004.

Course Category			
Mathematics and Basic Sciences	: 0	Education	: 0
Engineering	: 0	Science	: 0
Engineering Design	: 0	Health	: 100
Social Sciences	: 0	Field	: 0

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to Meat Inspection and Technology		
2	Meat Hygiene and Public Health Relationship		
3	Ante-Mortem Inspection		
4	Post-Mortem Inspection		
5	Carcass Evaluation and Classification		
6	Meat-Borne Zoonotic Diseases		
7	Meat Spoilage and Contamination Sources		
8	Ara Sınav		Midterm Exam
9	Basic Processes in Meat Technology		
10	Chilling, Freezing, and Preservation Techniques		
11	Meat Products Technology		
12	Quality Control and Standards in Meat		
13	Hygiene Practices in Meat Processing Facilities		
14	Microbiological and Chemical Risks in Meat		
15	Current Approaches and General Evaluation		
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains ante-mortem and post-mortem inspection methods and evaluates them in terms of animal and public health.
C02	Applies meat hygiene and sanitation principles and analyzes safe meat production processes.
C03	Evaluates pathological findings in meat and makes appropriate inspection decisions.
C04	Defines meat-borne zoonotic diseases and interprets preventive public health practices.
C05	Uses basic processes applied in meat technology and evaluates quality control procedures.
C06	Compares spoilage, contamination, and preservation methods in meat and meat products and selects appropriate preservation techniques.
C07	Plans and reports meat inspection practices in accordance with professional ethics, legislation, and scientific data.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	4	5	5	5	4	5	4	5	4	5	4	5	4	5	5	5
C01	4	3	5	4	4	5	5	4	4	3	4	4	5	3	4	3	4	5	5
C02	4	3	5	4	5	5	5	4	5	4	4	5	5	4	5	4	4	5	5
C03	4	4	4	3	5	5	5	4	5	4	5	3	4	4	5	4	4	5	4
C04	4	4	5	5	5	5	5	4	5	4	4	4	5	4	5	4	5	4	4
C05	4	4	5	4	5	5	4	4	5	4	4	4	5	4	5	5	5	4	4
C06	4	4	4	4	5	5	5	4	5	4	5	4	4	4	5	4	5	5	5
C07	5	4	5	4	5	5	5	4	5	5	5	4	5	5	5	5	5	5	5

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VET422 LIVESTOCK ENTERPRISE ECONOMY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET422	LIVESTOCK ENTERPRISE ECONOMY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

At the end of the course, The student can examine livestock enterprises economic results and can evaluate cost/benefit ratio of animal diseases

Teaching Methods and Techniques:

Introduction to economics, General agricultural and livestock policy, Employment, Inflation, Money, National income, Supply, Demand, Market price , Consumer behavior, Choise of farm location, Production factor provide of input factor, Production planning of livestock enterprises, Cost of livestock enterprises, Economic evaluation of livestock enterprises, Animal health economics,

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mehmet IRMAK

Instructors:

Associate Prof.Dr. Mehmet IRMAK

Assistants:

Recommended Sources	
Textbook	: Sakarya E, Cevger Y, Aral Y, Hayvancılık Ekonomisi, ISBN 978-975-06-1035-6 2013
Resources	: Sakarya E, Cevger Y, Aral Y, Hayvancılık Ekonomisi, ISBN 978-975-06-1035-6 2013
Documents	:
Assignments	:
Exams	:

Course Category			
Mathmatics and Basic Sciences	: 40	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 40
Social Sciences	:	Field	: 20

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to economics	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
2	General agricultural and livestock policy	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
3	Employment, Inflation	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
4	Money, National income	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
5	Supply	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
6	Demand	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
7	Market price	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
8	Midterm		
9	Consumer behavior	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
10	Choise of farm location	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
11	Production factor provide of input factor	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
12	Production planning of livestock enterprises	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
13	Cost of livestock enterprises	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
14	Economic evaluation of livestock enterprises	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
15	Animal health economics	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	
16	FINAL SINAVI	Course of the study subjects planned to Sakarya E, Cevger Y, Aral Y, Hayvancılık	

Course Learning Outcomes	
No	Learning Outcomes
C01	have knowledge about basic economic notions
C02	Makes economic assessment and analysis of animal diseases
C03	Evaluate the secrterol effects of Rural economy and basic economic policies
C04	Evaluate the basic management functions in terms of livestock enterprises
C05	Evaluates the supply-demand and price mechanism in animal products.
C06	Can evaluate the selection of location for establishment in livestock enterprises.
C07	Has knowledge of input supply and production in livestock enterprises and can evaluate the subject appropriately.
C08	Gains knowledge about marketing and organization in the livestock sector and evaluates these issues.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	14	1	14
Assignment	0	%0	Assignments	0	0	0
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	1	6	6
Project	0	%0	Practice	0	0	0
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	12	12
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	3	2	3	3	3	2	2	5	4	4	4	4	4	3	2	2	2	2
C01	4	2	2	3	4	3	2	3	4	4	4	4	5	3	3	3	2	2	2
C02	4	3	2	3	4	3	2	3	5	4	4	4	4	4	3	2	2	2	2
C03	3	2	2	3	3	3	3	3	4	3	4	4	4	4	3	2	2	2	2
C04	4	2	4	3	3	2	3	3	5	3	4	4	3	4	3	3	2	3	3
C05	3	2	2	3	5	2	3	3	5	5	4	4	3	4	3	3	2	1	2
C06	3	2	2	3	5	2	3	2	5	4	4	4	3	4	3	3	2	1	2
C07	3	2	2	3	4	2	2	2	5	3	4	4	3	4	3	3	2	1	2
C08	4	3	2	3	3	2	2	3	5	3	4	4	4	4	4	2	2	2	2

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VET404 INTERNAL MEDICINE-III					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET404	INTERNAL MEDICINE-III	4	4	4

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

In this course; it is aimed for students to specialize in the mechanisms, diagnosis, and management of nervous system pathologies, metabolic imbalances, vitamin-mineral deficiencies, and toxicological cases in farm animals.

Teaching Methods and Techniques:

The course covers neurological disorders, energy and mineral metabolism diseases, trace element deficiencies, and clinically significant toxications in large animals.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar ÇELİK

Instructors:

Associate Prof.Dr. Gülşah AKGÜL

Assistants:

Research Assist. mahsum Başak

Recommended Sources	
Textbook	: Geviş getiren Hayvanların İç Hastalıkları, Gül Y, Medipres, Malatya, 2006 ?Veteriner İç Hastalıkları, İmren H.Y, Şahal M, Medisan, Ankara,1996 ?Vet
Resources	: İmren, H. Y., & Şahal, M. (1991). Veteriner iç hastalıkları. Medisan.Ankara. Gül, Y. (2022). Geviş getiren hayvanların iç hastalıkları (Sığır, koyun-keç
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Cats and dogs diseases characteristic with pythyalism , Congenital Methabolic Diseases ,Productive Metabolic Diseases		
2	Cats and dogs diseases characteristic with dysphagia and regurgitation , Fatty Liver Syndrom in Cows , Ketosis		
3	Cats and dogs diseases characteristic with vomiting , Pregnancy Toxemia , Diabetus Mellitus , Diabetus Insipitus		
4	Cats and dogs diseases characteristic with diarrhea , Haemostasis of Calcium,Phosphor, Magnesium in RuminantsVitamin D		
5	Cats and dogs diseases characteristic with constipation and dyshesia , Intestinal Phosphor Absorbitions , Effect of Calcium F		
6	Cats and dogs liver and pancreas diseases , Milk Fever , Hypomagnesmic Tetania , Rashitism , Osteomalasi		
7	Cats and dogs diseases characteristic with anorexia and abdominal distention , Osteodistrophia Fibrosa , Hypocalcemic teta		
8	Midterm		
9	Ruminants diseases characteristic with dysphagia , Bovine Transit Tetania , Postparturent Hemoglobinuria , Prevention fr		
10	Ruminants diseases characteristic with anorexia and abdominal distention , Cupper Defficiency , Cupper Defficiency i Lamb		
11	Ruminants diseases characteristic with anorexia and ping sound , White Mucle Diseases , Downer Cow Syndromu , Mivoglo		
12	Ruminants diseases characteristic with diarrhea , Clasifikasyon of Vitamins , Vitamin Defficiency , Liposolubly Vitamins Deff		
13	Ruminants liver diseases , Hydrosolubly Vitamins , Vitamin B1 Defficiency , Niacin Defficiency , Vitamin B2 Defficiency		
14	Horses diseases characteristic with dysphagiaHorses diseases characteristic with diarrhea , Panthotonic Acid Defficiency , V		
15	Horses diseases characteristic with colicHorses liver diseases , Horses gastric diseases , Vitamin B12 Defficiency , Vitamin C		
16	End-of-term exam		

Recommended Optional Programme Components	
VET405 INTERNAL MEDICINE-II	

Course Learning Outcomes	
No	Learning Outcomes
C01	Determines the anatomical location of the lesion using clinical signs in nervous system diseases.
C02	Evaluates the risk factors of metabolic diseases developing due to negative energy balance.
C03	Correlates macro and micro mineral deficiencies with clinical pathology data.
C04	Identifies the suspect toxin in toxicological cases in light of anamnesis and clinical findings.
C05	Manages specific treatment and supportive therapy protocols in metabolic and toxicological emergencies.
C06	Plans the herd-based prophylaxis of diseases caused by nutritional errors.
C07	Differentiates between infectious and non-infectious causes in diseases showing nervous symptoms.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	4	56
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	3	3
Total Work Load			117
ECTS Credit of the Course			4

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	4	4	4	4	4	4	3	4	3	5	3	4	3	4	4	5
C01	5	4	5	3	4	3	3	5	5	3	3	3	5	5	3	5	5	4	5
C02	5	4	5	5	3	4	3	3	4	3	3	3	5	3	3	3	3	5	4
C03	5	4	5	3	4	3	3	5	5	3	3	3	5	4	4	3	4	4	5
C04	5	5	5	4	4	5	4	3	4	4	4	3	5	3	4	3	5	5	5
C05	5	4	5	4	3	4	3	4	4	4	4	4	5	4	4	3	3	4	5
C06	4	4	5	3	5	5	4	5	5	3	4	3	4	5	5	3	4	3	4
C07	5	4	5	4	3	4	5	3	4	3	4	3	5	4	4	3	3	4	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET436 GYNECOLOGICAL OPERATIONS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET436	GYNECOLOGICAL OPERATIONS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach the surgical techniques used in veterinary gynecological operations, asepsis-antisepsis principles, and preoperative and postoperative clinical practices, and to improve students' professional practical skills.

Teaching Methods and Techniques:

This course covers the surgical anatomy of the female genital system, equipment used in gynecological operations, ovariohysterectomy, cesarean section, prolapse operations, udder tumor surgeries, and postoperative care practices. It also includes surgical complications, patient management, and clinical case applications.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Öznur YILMAZ KOÇ

Instructors:

Asist Prof.Dr. Öznur YILMAZ KOÇ

Assistants:

Research Assist. Merve Bulut

Recommended Sources	
Textbook	: Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
Resources	: Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to the course and gynecological operations	Research on the subject	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
2	Surgical anatomy of the female reproductive system	Research on the subject	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
3	Asepsis, antisepsis, and surgical preparation	Research on the subject	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
4	Surgical instruments and suture materials used in gynecological operations	Research on the subject	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
5	Basic principles of ovarian and uterine surgeries	Research on the subject	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
6	Ovariohysterectomy techniques	Research on the subject	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
7	Cesarean section operations and complications	Research on the subject	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
8	Midterm Exam		
9	Vaginal and uterine prolapse surgeries	Research on the subject	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
10	Mammary surgeries and gynecological tumor surgery	Research on the subject	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
11	Postoperative care and patient management	Research on the subject	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
12	Surgical complications and complication management	To conduct research on the topic.	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
13	Clinical case evaluations	Research on the subject	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
14	Practical gynecological operation studies	Research on the subject	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
15	General review and case discussions	Research on the subject	Semacan, A., Kaymaz, M., Findik, M., Rişvanlı, A., & Köker, A. (2015). Obstetrics and gynecology in farm animals. Malatya, Turkey: Medipres. Kayn
16	Final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the normal structure of tissues and organs.
C02	Defines the etiology of diseases.
C03	Evaluates pathological changes.
C04	Takes appropriate samples from lesions.
C05	Analyzes macroscopic findings.
C06	Applies scientific methods in diagnostic processes.
C07	Interprets disease outcomes in terms of public health.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			74
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	4	5	5	5	4	5	5	4	3	4	5	4	3	4	5	5
C01	5	4	4	3	4	4	3	3	4	4	3	3	3	3	3	2	3	4	3
C02	4	5	5	3	4	4	3	3	4	4	3	3	4	3	3	2	3	4	4
C03	4	4	5	4	4	5	4	4	5	4	4	3	5	4	4	3	4	4	4
C04	3	3	4	5	4	5	4	3	4	4	4	3	5	4	4	3	4	4	4
C05	3	3	4	4	4	5	5	4	5	4	4	3	5	5	4	3	4	4	4
C06	3	3	4	4	5	5	5	4	5	5	4	4	5	5	4	3	4	5	4
C07	3	3	4	3	5	4	4	4	5	5	4	4	4	5	5	4	4	5	3

FACULTY OF VETERINARY MEDICINE
Veterinary Medicine

Language of Instruction: Turkish Course Level: Faculty Work Placement(s): No Department / Program: Veterinary Medicine Course Type: Seçmeli Goals:	
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Teaching Methods and Techniques:

Covers the nutritional principles of poultry and the causes, symptoms, and prevention methods of metabolic diseases.

Prerequisites:

Course Coordinator:

Instructors:

Prof.Dr. Tuncay TUFAN

Assistants:

Course Category			
Mathmatics and Basic Sciences :	Education :		
Engineering :	Science :		
Engineering Design :	Health :	25	
Social Sciences :	Field :	75	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the nutrient requirements of poultry.
C02	Prepares feeding programs suitable for different production stages in poultry.
C03	Identifies metabolic diseases observed in poultry
C04	Analyzes the causes of nutrition-related metabolic diseases.
C05	Evaluates prevention methods for metabolic diseases.
C06	Applies practices aimed at improving productivity in poultry nutrition.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P05	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P10	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment	Quantity	Percentage
In-Term Studies		
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

[illegible]

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET424 CLINICAL PRACTICE-III					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET424	CLINICAL PRACTICE-III	8	4	5

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of the course is to provide the students with the experience and skills in the field of clinical sciences, to increase the ability and knowledge to solve the problems encountered in the clinical field, to teach the relationship between patient, patient and physician.

Teaching Methods and Techniques:

Animal hospital in the process of examination and treatment of animals

Prerequisites:

Course Coordinator:

Prof.Dr. TEKİN ŞAHİN

Instructors:

Assistants:

Asist Prof.Dr. GÜLŞAH AKGÜLAsist Prof.Dr. ÖZGÜR YAŞAR ÇELİK

Recommended Sources	
Textbook	: 1. Veterinary Medicine, Radostits, O.M. et all, WBSaunders, London, 2004 2. Birth and Infertility, Alaçam, E.Medisan, Ankara, 1999 3. Special Surge
Resources	: Veteriner İç Hastalıklarına Giriş, H.Y. İmren, Ankara, 1994,Veteriner Klinik Laboratuvar Teğhis- Prof. Dr. Kürşat TURGUT, Prof. Dr. Mahmut OK,Klini
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	They participate in patient examinations and treatments in and outside the clinic. (Internal diseases)		
2	They participate in patient examinations and treatments in and outside the clinic. (Internal diseases)		
3	They participate in the case discussion. (Internal diseases)		
4	They participate in the case discussion. (Internal diseases)		
5	In this semester, in the departments they attend by rotation, they make the applications that every student should do mini		
6	They participate in patient examination, treatments and operations both in the clinic and outside the clinic. (Surgical)		
7	They participate in patient examination, treatments and operations both in the clinic and outside the clinic. (Surgical)		
8	They participate in the case discussion. (Surgical)		
9	They participate in the case discussion. (Surgical)		
10	In this semester, in the departments they attend by rotation, they make the applications that every student should do mini		
11	They participate in patient examination, treatments and operations both in the clinic and outside the clinic. (Obstetrics and		
12	They participate in patient examination, treatments and operations both in the clinic and outside the clinic. (Obstetrics and		
13	Technologies of meat and meat products		
14	Clinical laboratory applications, Evaluation of clinical significance of laboratory findings		
15	technologies of milk and dairy products		

Course Learning Outcomes	
No	Learning Outcomes
C01	Learns the application of examination methods and examination of systems with the characteristics of the species as taught in the theoretical courses
C02	Learns the interpretation of general and special examination techniques, system examinations, clinical and laboratory examinations in different animal species
C03	Learns how to choose the treatment methods in diseases and how to apply them
C04	Learns how to evaluate prognosis and prophylaxis in diseases
C05	Learns about the chemical and biological substances to be used in preventive medicine and therapeutic methods and their production technologies.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows; located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	15	8	120
Quizzes	0	%0	Hours for off-the-c.r.stud	0	0	0
Assignment	0	%0	Assignments	0	0	0
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	0	0	0
Project	0	%0	Practice	15	1	15
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	10	10
			Total Work Load			145
			ECTS Credit of the Course			5

Course Contribution To Program																				
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																				
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	
All	5	5	5	5	5	5	4	1	5	5	2	2	5	5	5	5	1	5	5	
C01	4	5	4	3	4	2	5	4	4	4	3	1	3	4	4	3	3	5	4	

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET452 Preventive Medicine					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET452	Preventive Medicine	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To teach preventive medicine practices in animal health; especially to provide knowledge and skills in pharmacological and toxicological prophylaxis, chemoprophylaxis, vaccination practices, use of drugs and chemical preservatives, and preventive approaches against environmental toxins.

Teaching Methods and Techniques:

• Definition, scope, and importance of preventive medicine • Pharmacological basis of vaccination • Preventive use of immunomodulatory and biological agents • Chemoprophylactic drugs (antibiotics, antiparasitics) • Antimicrobial resistance and rational drug use • Vitamin, mineral, and supplemental pharmacological approaches • Preventive medicine approaches against environmental toxins • Safe use of pesticides and prevention of poisoning • Prophylactic use of feed additives, antioxidants, and mycotoxin binders • Pharmacological protection under stress, transport, and production conditions • Residue prevention strategies in food safety • Risk analysis and toxicological assessments in preventive medicine • Preventive approaches in animal, human, and environmental health within the framework of One Health

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources	
Textbook	:
Resources	: Kaya S. Veteriner Hekimliğinde İlaç Kullanımı ve Kalıntı Problemleri,Riviere JE, Papich MG. Veterinary Pharmacology and Therapeutics,Gupta RC. Ve
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Koruyucu hekimliğe giriş – Tanımı, tarihçe, önemi		
2	Koruyucu hekimliğin farmakolojik temelleri		
3	Aşıların farmakolojik ve immünolojik yönleri		
4	İmmünomodulator ilaçlar ve biyolojik ürünler		
5	Antibiyotiklerin kemoprofilaktik kullanımı ve direnç sorunu		
6	Antiparaziter ilaçların profilaktik kullanımı		
7	Vitaminler, mineraller ve destek ürünlerinin koruyucu rolü		
8	Cevresel toksinler ve koruyucu yaklaşımlar (ağır metaller, pestisitler, endokrin bozucular)		
9	Mikotoksinler ve yem katkı maddeleri ile önleme		
10	Antioksidanlar ve detoksifikasyon sistemlerini destekleyen ajanlar		
11	Stres koşullarında farmakolojik koruma (nakil, sıcaklık, üretim stresi)		
12	Gıda güvenliğinde kalıntıların önlenmesi (ilaç kalıntıları, pestisit kalıntıları, maksimum kalıntı limitleri)		
13	Koruyucu hekimlikte toksikolojik risk değerlendirmesi		
14	Tek Sağlık perspektifinde koruyucu hekimlik uygulamaları (vaka analizi ve güncel yaklaşımlar)		

Recommended Optional Programme Components	
VET309 PHARMACOLOGY-I	
VET304 PHARMACOLOGY-II	
VET415 TOXICOLOGY AND ENVIRONMENTAL PROTECTION	

Course Learning Outcomes	
No	Learning Outcomes
C01	• Explains the scope and importance of preventive medicine. • Interprets the pharmacological basis of vaccines and immunomodulators. • Evaluates the chemoprophylactic use of antibiotics and an

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	10	1	10
Assignments	4	1	4
Presentation	4	1	4
Mid-terms	1	3	3
Practice	5	1	5
Laboratory	0	0	0
Project	0	0	0
Final examination	1	6	6
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	5	5	5	4	5	4	5	4	5	5	5	5	5	5	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET466 FOOT DISEASES OF SHEEP					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET466	FOOT DISEASES OF SHEEP	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with knowledge, skills, and clinical evaluation competence regarding the etiology, pathogenesis, diagnosis, treatment methods, and preventive foot health practices of foot diseases seen in sheep.

Teaching Methods and Techniques:

This course covers the anatomical and functional structure of the sheep foot, lameness examination, infectious and non-infectious foot diseases, hoof care applications, medical and surgical treatment methods, and herd-level preventive foot health approaches.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Banş AKGÜL

Instructors:

Associate Prof.Dr. Mustafa Banş AKGÜL Asist Prof.Dr. Kadir SULUProf.Dr. Mehmet SAĞLAMAssociate Prof.Dr. Ali GÜLAYDINProf. Dr. Nihat ŞINDAKAsist Prof.Dr. Onur YILDIRIM

Assistants:

Research Assist. Maruf YILMAZ Research Assist. Sevdet KILIÇ Research Assist. Bahar ERDEN

Recommended Sources	
Textbook	: Blowey, R. (1993). Cattle lameness and hoofcare: An illustrated guide. Farming Press.
Resources	: van Amstel, S. R., & Shearer, J. K. (2006). Manual for treatment and control of lameness in cattle. Blackwell Publishing.
Documents	: Weaver, A. D., St. Jean, G., & Steiner, A. (2005). Bovine surgery and lameness (2nd ed.). Blackwell Publishing.
Assignments	: Greenough, P. R. (2007). Bovine laminitis and lameness. Elsevier.
Exams	: İzci, C. (2006). Sığır ayak hastalıkları. Selçuk Üniversitesi Veteriner Fakültesi Yayınları. Blowey, R. (1993). Cattle lameness and hoofcare: An illustrated guide. Farming Press. van Amstel, S. R., & Shearer, J. K. (2006). Manual for treat

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content		
Week	Topics	Study Materials Materials
1	Introduction to sheep foot diseases and basic terminology	
2	Anatomy and physiology of the sheep foot	
3	Hoof structure, development, and biomechanics	
4	Lameness examination and evaluation methods	
5	Etiology and predisposing factors of foot diseases	
6	Foot rot and infectious foot diseases	
7	Non-infectious foot diseases	
8	MIDTERM EXAM	
9	Laminitis and hoof deformities	
10	Hoof trimming techniques in sheep	
11	Medical treatment methods in foot diseases	
12	Surgical treatment approaches in foot diseases	
13	Preventive foot health practices	
14	Claw diseases in sheep	
15	Claw diseases in domestics	
16	END OF SEMESTER EXAM	

Recommended Optional Programme Components
VET466 FOOT DISEASES OF SHEEP

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the anatomical structure, physiology, and biomechanics of the sheep foot.
C02	Evaluates the etiopathogenesis of foot diseases seen in sheep.
C03	Applies lameness examination.
C04	Interprets the clinical findings of foot diseases.
C05	Applies hoof trimming techniques in sheep.
C06	Plans preventive health practices in foot diseases.
C07	Ensures sustainable hoof health through preventive veterinary approaches.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	3	4	5	4	4	3	4	4	4	3	3	2	3	4	4
C01	5	5	5	5	3	4	5	4	5	2	4	5	4	3	3	2	3	5	3
C02	4	5	5	4	3	5	5	3	5	3	4	5	5	3	4	2	3	4	4
C03	4	5	5	4	3	5	5	3	5	2	5	5	5	4	4	2	3	4	5
C04	5	5	4	5	2	5	4	3	4	2	5	5	5	4	4	2	3	4	4
C05	5	4	4	5	2	5	4	3	5	2	5	4	5	3	4	2	3	4	4
C06	4	4	5	5	4	4	4	4	5	3	5	4	5	4	5	2	3	4	4
C07	5	5	5	4	4	5	5	4	5	3	5	4	5	3	5	2	3	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET416 UDDER HEALTH AND DISEASES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET416	UDDER HEALTH AND DISEASES	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to enable students to acquire knowledge, skills, and competencies in breast health protection, diagnosis, treatment, and prevention methods of breast diseases, and mastitis control programs.

Teaching Methods and Techniques:

This course covers udder anatomy and physiology, lactation biology, factors affecting udder health, etiology of mastitis, diagnostic and treatment methods, milk hygiene, herd health practices, and mastitis control programs. Preventive veterinary medicine applications and current approaches in udder diseases are also evaluated.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Öznur YILMAZ KOÇ

Instructors:

Asist Prof.Dr. Ali ÜNVER

Assistants:

Research Assist. Merve BULUT

Recommended Sources	
Textbook	: Kaymaz, M., Findık, M., Rışvanlı, A., & Köker, A. (2016). Udder diseases in domestic animals. Malatya, Türkiye: Medipress.
Resources	: Kaymaz, M., Findık, M., Rışvanlı, A., & Köker, A. (2016). Udder diseases in domestic animals. Malatya, Türkiye: Medipress.
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Anatomy and morphology of the breast	Course of the study subjects planned to Mammary Gland Diseases in Domestic A	
2	Breast anatomy, breast morphology	Course of the study subjects planned to Mammary Gland Diseases in Domestic A	
3	Factors affecting lactation physiology, milk secretion, cumulus composition, milk yield	Course of the study subjects planned to Mammary Gland Diseases in Domestic A	
4	Anatomical, cellular and humoral defense system of udder, strengthening the udder immune system	Course of the study subjects planned to Mammary Gland Diseases in Domestic A	
5	Predisposing factors of mastitis	Course of the study subjects planned to Mammary Gland Diseases in Domestic A	
6	Etiopathogenesis of mastitis	Course of the study subjects planned to Mammary Gland Diseases in Domestic A	
7	Mastitis caused by contagious bacteria, etiopathogenesis, risk factors and precautions	Course of the study subjects planned to Mammary Gland Diseases in Domestic A	
8	Midterm exam		
9	Mastitis brought on by environmental bacteria, etiopathogenesis, risk factors and precautions to be taken	Course of the study subjects planned to Mammary Gland Diseases in Domestic A	
10	Mastitis brought on by opportunistic bacteria, etiopathogenesis, risk factors and complaints	Course of the study subjects planned to Mammary Gland Diseases in Domestic A	
12	Milk hygiene and milking management	Course of the study subjects planned to Ineklerde Meme Sağlığı ve Sorunları. Ayl	
13	Drying in cows, dry period importance and dry period management	Course of the study subjects planned to Mammary Gland Diseases in Domestic A	
14	Infectious and non-infectious diseases of nipple	Course of the study subjects planned to Mammary Gland Diseases in Domestic A	
15	Udder operations	Course of the study subjects planned to Mammary Gland Diseases in Domestic A	
16	End-of-term exam		
2016	Treatment of mastitis in terms of place of treatment and mastitis treatment according to clinical forms	Course of the study subjects planned to Mammary Gland Diseases in Domestic A	

Course Learning Outcomes	
No	Learning Outcomes
C01	The student explains udder anatomy, physiology, and lactation mechanisms.
C02	The student analyzes infectious and environmental factors affecting udder health.
C03	The student applies clinical examination and diagnostic methods in animals with mastitis.
C04	The student performs preventive practices related to milk hygiene and milking management.
C05	The student evaluates mastitis control programs from a herd health perspective.
C06	The student selects and interprets appropriate treatment approaches for udder diseases.
C07	The student critically discusses current scientific data related to udder health.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	1	14
Quizzes	0	%0	Hours for off-the-c.r.stud	0	0	0
Assignment	0	%0	Assignments	0	0	0
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	1	10	10
Project	0	%0	Practice	0	0	0
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	10	10
			Total Work Load			34
			ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	4	4	5	4	4	4	4	4	5	4	4	4	4	4	4	4	4
C01	5	4	4	4	3	3	3	3	3	3	4	4	3	3	3	3	3	3	3
C02	4	5	5	4	4	4	4	3	4	4	5	4	4	4	4	4	4	4	4
C03	4	4	5	5	4	5	5	4	5	4	4	4	4	5	4	5	4	4	4
C04	4	4	4	5	5	4	4	5	4	5	4	5	4	4	5	4	5	5	4
C05	5	4	4	4	5	5	5	4	5	4	5	4	5	4	5	5	4	4	5
C06	4	4	5	4	4	5	4	4	5	5	4	4	4	5	4	5	4	4	5
C07	5	5	4	4	4	4	4	5	4	4	5	5	5	4	4	4	5	4	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET420 PROFESSIONAL ETHICS AND VETERINARY MEDICINE LEGISLATION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET420	PROFESSIONAL ETHICS AND VETERINARY MEDICINE LEGISLATION	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

In this course, it is aimed to provide veterinary candidates with an understanding of professional ethical principles, to teach their legal rights and responsibilities, and to provide the ability to analyze ethical dilemmas within the framework of legislation

Teaching Methods and Techniques:

It covers the historical development of veterinary medicine, deontological rules, ethical theories, national/international legislation on animal rights and welfare, and forensic veterinary medicine.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar Çelik

Instructors:

Asist Prof.Dr. Özlem Erdeğer

Assistants:

Research Assist. Mahsum Başak

Recommended Sources	
Textbook	: Kızıltepe, A. (2010). Türkiye de Klinik Veteriner Hekimliği Uygulamalarında Karşılaşılan Deontolojik-Etik Sorunlar Üzerine Bir Araştırma (Doctoral dis
Resources	: Fox.M.R.De.Marco,J.P.1990.Moral reasoning:A philosophical aproach to appled ethics,singer,P.1999.practical ethics,Yaşar, A. (2000). Professional E
Documents	:
Assignments	:
Exams	:

Course Category			
Mathmatics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	basic terminology and conceptions in ethics and legislations		
2	veterinary ethics		
3	basic ethical principles and veterinary medicine		
4	professional ethics		
5	ethical committees(local,national and nternational)		
6	ethical principles and problems scientific research activities		
7	ethical principles and problems in scientific publication activities		
8	Midterm exam		
9	the legal structure of veterinary practice in turkey		
10	veterinarylegislation within the scope of EU practice		
11	animal rights and ethics		
12	animal welfare and ethics		
13	discussion of professional ethics and legislations(under the 6343 law)		
14	discussions of professional ethics and legislations (under the 3285 law)		
15	discussions of professional ethics and legislations (under the 5179 and 5199 law)		
16	Final Exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the difference between ethics and morality.
C02	Lists the deontological rules in veterinary medicine.
C03	Analyzes ethical dilemmas encountered in professional practice.
C04	Applies current veterinary legislation to contemporary cases.
C05	Interprets laws regarding animal welfare and rights
C06	Manages vet-patient-client relationships within an ethical framework.
C07	Assumes the legal responsibility of the veterinarian in forensic cases.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	1	14
Quizzes	0	%0	Hours for off-the-c.r.stud	5	1	5
Assignment	0	%0	Assignments	0	0	0
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	1	3	3
Project	0	%0	Practice	0	0	0
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	3	3
			Total Work Load			25
			ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	3	3	3	3	4	3	4	5	5	3	3	3	5	3	3	3	3
C01	5	4	2	2	2	2	3	2	3	5	5	2	2	2	3	2	2	2	2
C02	5	4	3	3	3	3	3	4	3	4	5	3	5	3	4	3	3	3	3
C03	4	3	3	3	3	3	4	3	4	5	5	4	4	4	4	4	3	3	3
C04	4	3	3	3	3	3	4	3	4	5	4	3	3	3	4	4	3	4	4
C05	3	4	3	3	3	4	4	5	4	5	5	3	3	4	5	4	4	4	4
C06	4	4	3	3	4	3	4	4	4	5	4	4	4	4	4	4	4	3	3
C07	4	4	4	4	4	4	4	4	3	5	5	5	4	4	5	4	5	5	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET444 PROFESSIONAL ENGLISH-VIII					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET444	PROFESSIONAL ENGLISH-VIII	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to teach students the general terminology in English and Turkish equivalents in related fields .To gain the ability to understand the advantages related to the profession

Teaching Methods and Techniques:

Öğrencilere ilgili alanlarda genel terminolojilerin İngilizce ve Türkçe karşılıklarının öğretildiği ve meslekle ilgili parçaları anlayabilme yeteneğinin kazandırıldığı Mesleki İngilizce VII dersinin devamı niteliğindeki derstir.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Ayfer FINDIK PAKROOH

Instructors:

Assistants:

Recommended Sources	
Textbook	: Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Resources	: Medical Passages & Vocabulary for ÜDS TUS. Elkılıç G., Han T., Aydın S. Hacettepe-Taş Yayınları 2009.
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
2	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
3	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
4	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
5	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
6	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
7	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
8	Midterm exam	Course of the study subjects planned to	Medical Passages & Vocabulary for UDS
9	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
10	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
11	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
12	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
13	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
14	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS
15	Medikal English text and Turkish translation	subjects should be chosen as appropriat	Medical Passages & Vocabulary for UDS

Course Learning Outcomes	
No	Learning Outcomes
C01	Learning English terminology that can be encountered throughout the professional life
C02	To gain the ability to understand medical articles at intermediate and advanced levels

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET440 NEONATAL PERIOD DISEASES					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET440	NEONATAL PERIOD DISEASES	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

Knowledge to students about of bacterial, viral, parasitar, mycotic, metabolic and other diseases of poultry.

Teaching Methods and Techniques:

Necropsy and types of gross diagnoses, Bacterial disease,Viral disease, Parasitil disease, Fungal infections, Metabolic disorders and nutritions disease

Prerequisites:

Course Coordinator:

Asist Prof.Dr. BURÇAK ASLAN

Instructors:

Assistants:

Recommended Sources

Textbook	:	Kaynaklardan hazırlanmış ders notları, -Kanatlı Hastalıkları Patolojisi (Sönmez G) -Disease of Poultry (Saif YM)
Resources	:	Poultry Diseases
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathmatics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Necropsy and types of gross diagnoses	Research on the subject	Kaynaklardan hazırlanmış ders notları, →
2	Bacterial disease	Research on the subject	Kaynaklardan hazırlanmış ders notları, →
3	Bacterial disease	Research on the subject	Kaynaklardan hazırlanmış ders notları, →
4	Bacterial disease	Research on the subject	Kaynaklardan hazırlanmış ders notları, →
5	Bacterial disease	Research on the subject	Kaynaklardan hazırlanmış ders notları, →
6	Viral disease	Research on the subject	Kaynaklardan hazırlanmış ders notları, →
7	Viral disease	Research on the subject	Kaynaklardan hazırlanmış ders notları, →
8	Viral disease	Research on the subject	Kaynaklardan hazırlanmış ders notları, →
9	Viral disease	Research on the subject	Kaynaklardan hazırlanmış ders notları, →
10	Parasitil disease	Research on the subject	Kaynaklardan hazırlanmış ders notları, →
11	Midterm exam	Research on the subject	Kaynaklardan hazırlanmış ders notları, →
12	Parasitil disease	Research on the subject	Kaynaklardan hazırlanmış ders notları, →
13	Fungal infections	Research on the subject	Kaynaklardan hazırlanmış ders notları, →
14	Metabolic disorders and nutritions disease	Research on the subject	Kaynaklardan hazırlanmış ders notları, →

Course Learning Outcomes

No	Learning Outcomes
C01	common major diseases in poultry operations have access recognize knowledge.
C02	required for diagnosis of poultry diseases gains the ability to necropsy.
C03	According to diseases of the organs lesions duly sends samples to the laboratory about taking.
C04	anomalies in the system of the relevant organs, circulatory and metabolic disorders, degenerative and necrotic changes learns.
C05	etiology and pathogenesis of infectious diseases in poultry will have information about.
C06	About neoplastic diseases and parasites of organs and systems can learn
C07	Pathogenesis of diseases through learning basic business management and prognosis of the overall health gain the ability to comment on.
C08	assessing pathological changes in the organs of all makes preliminary diagnosis of diseases and take necessary protective measures.
C09	Live and dead poultry inspection of the external and internal macroscopic lesions observed in disease diagnosis and evaluate the results in terms of public health.
C10	necessary chemical disinfection methods in infectious diseases are learn about.
C11	control principles of poultry disease will have knowledge

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	14	0,5	7
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	3	3
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	6	6
Total Work Load			30
ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	4	4	3	5	4	1	1	4	3	1	4	4	4	1	3	5	5
C01	5	4	4	4	3	5	4	1	1	4	3	1	4	4	4	1	3	5	5
C02	5	4	4	4	3	5	4	1	1	4	3	1	4	4	4	1	3	5	5
C03	4	5	4	5	4	4	5	2	2	4	3	2	4	4	4	1	3	5	5
C04	4	5	5	4	3	5	4	2	2	4	3	2	4	5	3	2	2	5	5
C05	4	4	5	4	3	4	5	3	3	4	4	2	5	5	3	1	1	4	4
C06	4	4	4	3	4	5	4	2	3	3	4	3	5	4	3	1	2	1	4
C07	4	3	4	5	4	3	4	4	3	3	4	3	5	4	3	2	2	3	3
C08	4	3	4	5	4	3	4	3	4	3	4	3	4	3	4	1	1	4	5
C09	4	5	4	5	3	4	3	1	1	4	3	1	3	4	4	1	3	5	5
C10	5	4	4	4	3	5	4	1	1	4	3	1	4	4	4	2	3	4	4
C11	4	4	5	4	4	4	4	2	2	4	3	1	4	4	3	4	4	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET412 ORTHOPEDICS AND TRAUMATOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET412	ORTHOPEDICS AND TRAUMATOLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

The aim of this course is to provide students with the competence to approach orthopedic and traumatic disorders in animals through scientific and clinical methods by understanding their etiopathogenesis, diagnostic procedures, treatment principles, and surgical applications.

Teaching Methods and Techniques:

This course covers the etiology, diagnosis, and treatment of bone, joint, tendon, ligament, and muscle disorders, traumatic injuries, osteosynthesis techniques, fracture and luxation management, and the fundamental principles of orthopedic surgery.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Banş AKGÜL

Instructors:

Asist Prof.Dr. Kadir SULLU

Assistants:

Research Assist. Maruf YILMAZ

Recommended Sources

Textbook	:	Aslanbey, D. (2002). Veterinary Orthopedics and Traumatology. Ankara.
Resources	:	Yanik, K. (2004). Orthopedics and Traumatology. Bursa: Uludağ University Faculty of Veterinary Medicine Press.,Oğurtan, Z., Koç, Y., İzci, C., & Alk
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Introduction to Orthopedics and Traumatology, Basic Concepts		
2	Anatomy and Biomechanics of the Musculoskeletal System		
3	Orthopedic Examination and Diagnostic Methods		
4	Classification of Fractures and Fracture Healing		
5	Principles of Fracture Treatment and Osteosynthesis Materials		
6	External and Internal Fixation Techniques		
7	Diagnosis and Treatment of Luxations and Subluxations		
8	Midterm Examination		
9	Long Bone Fractures and Treatment Approaches		
10	Joint Disorders and Surgical Treatments		
11	Tendon and Ligament Injuries		
12	Pelvic and Vertebral Traumas		
13	Developmental Orthopedic Diseases		
14	Complications in Orthopedic Surgery and Their Management		
15	Current Orthopedic Surgical Approaches and Clinical Case Discussions		
16	Final Examination		

Course Learning Outcomes

No	Learning Outcomes
C01	Explains the etiopathogenesis and biomechanical basis of musculoskeletal disorders.
C02	Interprets the classification of fractures and luxations.
C03	Analyzes clinical and radiographic findings in orthopedic cases.
C04	Selects appropriate diagnostic methods for orthopedic and traumatic disorders.
C05	Evaluates appropriate treatment approaches for fracture and luxation cases.
C06	Decides on the planning of orthopedic surgical interventions.
C07	Develops solution strategies for the management of orthopedic and traumatic cases.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	4	5	5	3	5	4	4	4	4	4	5	5	1	1	1	2	4	4
C01	4	3	5	3	2	5	3	3	3	3	3	2	3	1	1	1	1	2	2
C02	3	4	5	3	2	4	4	4	3	3	3	2	3	1	1	1	1	3	3
C03	4	4	5	4	2	5	4	4	4	4	3	4	5	1	1	1	2	5	4
C04	4	4	5	5	3	5	4	4	4	4	3	4	5	1	1	1	2	4	4
C05	4	4	5	4	3	5	4	4	5	5	4	4	5	1	1	1	2	4	4
C06	4	4	4	4	4	5	4	4	4	5	5	5	5	1	1	1	2	4	3
C07	5	5	5	4	4	5	5	4	4	5	5	5	5	2	2	1	3	4	4

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VET446 NEUROSURGICAL DISEASES IN PET ANIMALS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET446	NEUROSURGICAL DISEASES IN PET ANIMALS	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with knowledge, skills, and clinical evaluation competence regarding the etiology, diagnosis, neurological examination methods, imaging techniques, and surgical treatment approaches of neurosurgical diseases seen in pet animals.

Teaching Methods and Techniques:

This course content includes the etiopathogenesis of central and peripheral nervous system diseases, neurological examination methods, radiological and advanced imaging techniques, spinal and cranial surgical approaches, and postoperative care applications. In addition, clinical evaluation and prognostic criteria in neurosurgical cases are examined.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Banş AKGÜL

Instructors:

Prof.Dr. Nihat ŞINDAKProf.Dr. Mehmet SAĞLAMAssociate Prof. Dr. Mustafa Banş AKGÜLAsist Prof.Dr. Kadir SULUAsist Prof. Dr. Onur YILDIRIM Associate Prof.Dr. Ali GÜLAYDIN

Assistants:

Research Assist. Maruf YILMAZ Research Assist. Sevdet KILIÇResearch Assist. Bahar ERDEN

Recommended Sources	
Textbook	: Fossum, T. W. (2019). Small animal surgery (5th ed.). Elsevier.
Resources	: Monnet, E. (2013). Small animal soft tissue surgery (2nd ed.). Wiley-Blackwell.
Documents	: Tilley, L. P., & Smith, F. W. K. (2006). Blackwell's five-minute veterinary consult: Saunders manual of small animal practice (3rd ed.). Saunders Elsevier.
Assignments	: Fossum, T. W. (2019). Small animal surgery (5th ed.). Elsevier. Monnet, E. (2013). Small animal soft tissue surgery (2nd ed.). Wiley-Blackwell. Tilley, L. P., & Smith, F. W. K. (2006). Blackwell's five-minute veterinary consult: Saunders manual of small animal practice (3rd ed.). Saunders Elsevier.
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Introduction to veterinary neurosurgery and basic terminology		
2	Nervous system anatomy and physiology		
3	Neurological examination methods		
4	Neurological imaging techniques		
5	Spinal trauma and vertebral diseases		
6	Intervertebral disc diseases		
7	Cranial neurosurgical diseases		
8	MIDTERM EXAM		
9	Peripheral nervous system diseases		
10	Neurosurgical infections and tumors		
11	Spinal surgical techniques		
12	Cranial surgical approaches		
13	Anesthesia and intensive care in neurosurgical cases		
14	Postoperative care and complication management		
15	Clinical case evaluations and surgical planning		
16	FINAL EXAM		

Recommended Optional Programme Components
VET446 NEUROSURGICAL DISEASES IN PET ANIMALS

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the anatomy, physiology, and etiopathogenesis of neurosurgical diseases in the nervous system of pet animals.
C02	Evaluates spinal and cranial neurosurgical diseases.
C03	Applies neurological examination methods.
C04	Interprets imaging findings in neurosurgical diseases.
C05	Performs postoperative care applications.
C06	Plans neurosurgical operative methods.
C07	Acts in accordance with ethical principles in veterinary neurosurgery practices.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	4	5	5	4	5	3	5	5	5	4	4	2	3	5	2
C01	5	5	5	4	4	4	4	3	4	3	4	4	5	3	3	2	3	4	2
C02	5	4	5	5	4	5	5	4	5	3	4	5	5	4	3	2	3	5	2
C03	5	5	5	5	4	5	5	4	5	3	4	5	5	4	4	2	4	5	2
C04	5	5	5	5	3	5	5	3	5	3	4	5	5	4	3	2	3	5	2
C05	5	5	5	5	4	5	5	4	5	4	5	5	5	4	4	2	3	5	2
C06	5	4	5	5	3	5	5	4	5	3	4	5	5	4	3	2	3	5	2
C07	5	4	5	4	3	4	4	3	4	3	5	5	5	2	4	2	3	5	2

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET434 REPRODUCTIVE BIOTECHNOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET434	REPRODUCTIVE BIOTECHNOLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The objective of this course is to equip students with fundamental theoretical knowledge on advanced reproductive biotechnologies in domestic animals, such as embryo transfer, in vitro fertilization (IVF), sex determination, cloning, and gene transfer, and to develop their skills for laboratory and field applications of these techniques.

Teaching Methods and Techniques:

There is no prerequisite for the course. Introduction to reproductive biotechnology, in vivo and in vitro embryo production, embryo transfer, cryopreservation of gametes and embryos, sex determination in semen and embryos, cloning, and transgenic animal production.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Ahmet ESER

Instructors:

Asist Prof.Dr. Ahmet ESER Asist Prof.Dr. Aslıhan ÇAKIR CİHANGİROĞLU

Assistants:

Research Assist. Abdurrahman ALAKUŞ Research Assist. Kemal BAĞCI

Recommended Sources	
Textbook	: Hayvanlarda Reprodüksiyon, Androloji ve Yardımcı Üreme Teknikleri, Soylu MK, Ak K, Akçay E, Baran A, Evecen M, Tirpan MB (2023)
Resources	: Marshall, R. T., Goff, H. D., Hartel, R. W. (2003). Ice Cream, Kluwer Academic/Plenum Publishers, USA
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Biotechnology	Studying the subject matter that is planıEvciil	Hayvanlarda Reprodüksiyon ve Sur
2	Reproductive Biotechnology	Studying the subject matter that is planıEvciil	Hayvanlarda Reprodüksiyon ve Sur
3	Current methods in sperm cryopreservation.	Studying the subject matter that is planıEvciil	Hayvanlarda Reprodüksiyon ve Sur
4	Progeny Test 1	Studying the subject matter that is planıEvciil	Hayvanlarda Reprodüksiyon ve Sur
5	Progeny Test 2	Studying the subject matter that is planıEvciil	Hayvanlarda Reprodüksiyon ve Sur
6	Kısa Sınav, Bilgi Sınama		
7	Sex Determination in Sperm	Studying the subject matter that is planıEvciil	Hayvanlarda Reprodüksiyon ve Sur
8	Midterm exam		
9	Synchronization of Estrus	Studying the subject matter that is planıEvciil	Hayvanlarda Reprodüksiyon ve Sur
10	Synchronization of Ovulation	Studying the subject matter that is planıEvciil	Hayvanlarda Reprodüksiyon ve Sur
11	Embryo transfer	Studying the subject matter that is planıEvciil	Hayvanlarda Reprodüksiyon ve Sur
12	Kısa Sınav, Bilgi Sınama		
13	IVF, ICSI, OPU	Studying the subject matter that is planıEvciil	Hayvanlarda Reprodüksiyon ve Sur
14	Production of Transgenic Animals	Studying the subject matter that is planıEvciil	Hayvanlarda Reprodüksiyon ve Sur
15	Cloning	Studying the subject matter that is planıEvciil	Hayvanlarda Reprodüksiyon ve Sur
16	Yarı Yıl Sonu Sınavı		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explain the fundamental concepts and developmental processes in the field of reproductive biotechnology.
C02	Detail the stages of in vivo and in vitro embryo production techniques.
C03	Apply cryopreservation methods for gamete cells and embryos in a laboratory setting.
C04	Analyze the processes of embryo transfer and sex determination from a clinical perspective.
C05	Evaluate the current impacts and ethical dimensions of advanced biotechnological applications such as cloning and transgenic animal production.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P16	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	14	2	28
Assignment	0	%0	Assignments	0	0	0
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	1	2	2
Project	0	%0	Practice	0	0	0
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	2	2
			Total Work Load			60
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
C01	5	5	2	5	3	2	2	4	2	1	1	2	1	1	1	5	2	2	1
C02	5	5	2	5	3	3	1	4	2	2	1	1	1	3	2	5	1	2	3
C03	5	5	3	5	3	2	1	3	2	1	2	1	1	1	1	5	1	2	5
C04	5	5	2	5	3	3	2	4	3	1	1	2	3	2	1	5	2	1	2
C05	5	5	2	5	3	3	1	4	4	3	5	1	1	1	2	5	1	1	1

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		%0

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			0
ECTS Credit of the Course			0

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant



Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET462 AQUATIC PRODUCTS MEAT INSPECTION AND TECHNOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET462	AQUATIC PRODUCTS MEAT INSPECTION AND TECHNOLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with fundamental knowledge about the composition, preservation, processing, hygiene conditions, quality control, sampling procedures, and public health risks of fish and fishery products.

Teaching Methods and Techniques:

The course covers the composition of fish and fishery products, preservation and processing methods, hygiene and quality control practices, sampling procedures, legislation, and public health risks.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Kübranur YILDIZ BAYHAN

Instructors:

Asist Prof.Dr. Kübranur YILDIZ BAYHANAsist Prof.Dr. Sefa ÜNER

Assistants:

Recommended Sources	
Textbook	: 1) Arslan, A. (2020). Et Muayenesi ve Et Ürünleri Teknolojisi. Medipres
Resources	: 2) Ayaz, N.D. ; Göncüoğlu, M. (2024). Veteriner Hekimliği Et ve Süt Hijyeni ve Teknolojisi Akıl Notları. Güneş Tıp Kitabevleri
Documents	: 3) Bilişli, A. (2015). Gıda Teknolojisi. Sidas Medya.
Assignments	: 1) Arslan, A. (2020). Et Muayenesi ve Et Ürünleri Teknolojisi. Medipres 2) Ayaz, N.D. ; Göncüoğlu, M. (2024). Veteriner Hekimliği Et ve Süt Hijyeni
Exams	: 1) Arslan, A. (2020). Et Muayenesi ve Et Ürünleri Teknolojisi. Medipres 2) Ayaz, N.D. ; Göncüoğlu, M. (2024). Veteriner Hekimliği Et ve Süt Hijyeni

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Concepts and definitions		
2	Composition and nutritional value of fish meat		
3	Health and hygiene standards in fishery products		
4	Packaging of fishery products		
5	Storage and cold chain systems		
6	Transportation and logistics of fish products		
7	Preservation methods of fishery products		
8	Midterm exam		
9	Legislation and regulations		
10	Fish-borne infections and intoxications		
11	Fish spoilage and quality deterioration		
12	Notifiable fish diseases		
13	Quality control methods in fishery products		
14	Fish sampling and laboratory submission procedures		
15	Hygiene practices in retail and wholesale fish markets		
16	Final exam		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the basic concepts of fish and fishery products.
C02	Evaluates the composition, preservation, and processing of fish and fishery products.
C03	Explains hygiene and quality control practices.
C04	Identifies sampling and submission procedures.
C05	Evaluates the public health risks of fish and fishery products.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P11	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	7	2	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	8	8
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	3	2	3	5	3	3	1	1	3	1	1	2	1	5	1	4	3	3
C01	5	3	2	2	5	1	3	1	1	2	1	1	2	1	5	1	3	2	2
C02	4	3	2	3	5	2	3	1	1	3	1	1	2	1	4	1	4	3	3
C03	4	3	3	2	5	3	4	1	1	2	1	1	2	1	5	1	4	3	3
C04	4	4	2	2	5	1	3	1	1	5	1	1	2	1	5	1	4	3	3
C05	4	3	2	4	5	4	3	1	1	3	1	1	3	1	5	1	5	4	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET426 DRIVER HEALTH AND ADMINISTRATION					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET426	DRIVER HEALTH AND ADMINISTRATION	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

In this course, it is aimed to teach the principles of herd-based preventive medicine, biosecurity, data analysis, and economic efficiency rather than individual treatment in farm animals.

Teaching Methods and Techniques:

It covers the creation of herd health programs, reproductive management, udder health, nutrition management, and epidemiological monitoring. It focuses on disease prevention and increasing farm profitability through data analysis.

Prerequisites:

Course Coordinator:

Prof.Dr. Özgür Yaşar Çelik

Instructors:

Asist Prof.Dr. Vedat Baldaz

Assistants:

Research Assist. Mahsum BAŞAK

Recommended Sources	
Textbook	: Batmaz, H. (2015). Sığırlarda Sürü Sağlığı ve Yönetimi, Alfa Aktüel Yayınevi
Resources	: Batmaz, H. (2015). Sığırlarda Sürü Sağlığı ve Yönetimi, Alfa Aktüel Yayınevi.
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	The definition of herd health management and its importance in aquaculture		
2	Basic management principles in herd health management		
3	How to Create a Healthy Flock		
4	Herd health control program in modern livestock enterprises		
5	Management and Planning		
6	Business management tasks to protect herd health		
7	7 days 24 hours monitoring of animals in the enterprise (Herd Observation)		
8	Midterm Exam		
9	Replenishment		
10	Milk yield control programs		
11	Fertilization control programs		
12	Creation of anger, seeding and vaccination calendars		
13	Controlling the cost		
14	Equipment that should be found in modern livestock enterprises		
15	Equipment that should be found in modern livestock enterprises		
16	final exam		

Recommended Optional Programme Components	
VET513 ANIMAL FEEDING AND FEEDING DISEASES	
VET406 BIRTH-II	
VET416 UDDER HEALTH AND DISEASES	
VET401 SURGERY-II	
VET403 BIRTH-I	
VET467 EFFECT OF NUTRITION ON FERTILITY AND MILK YIELD IN DAIRY COWS	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the principles and economic importance of herd health management.
C02	Designs farm-specific biosecurity protocols and performs risk analysis.
C03	Epidemiologically analyzes herd records (production, reproduction, health).
C04	Implements mastitis control programs and strategies to improve milk quality
C05	Evaluates fertility parameters and identifies managerial errors in the herd.
C06	Manages rations to prevent nutrition-related metabolic diseases.
C07	Integrates animal welfare standards into the herd management plan.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge

P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	5	5
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	5	5
Total Work Load			66
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	5	3	4	4	3	4	3	4	5	5	4	4	4	3	5	5
C01	5	4	5	3	2	4	3	2	4	3	3	4	4	4	3	3	3	4	4
C02	5	4	5	5	3	4	4	3	4	3	3	4	5	5	4	3	4	5	5
C03	4	3	4	3	5	3	4	5	4	4	4	3	4	4	5	4	3	4	4
C04	4	4	5	4	3	4	4	3	5	3	4	5	5	4	4	3	3	4	4
C05	5	3	5	5	3	4	4	3	4	3	3	5	5	4	3	3	4	5	4
C06	3	3	3	3	3	3	3	3	2	3	5	5	3	3	3	4	3	3	3
C07	4	5	4	4	3	4	4	3	4	3	4	4	5	4	4	4	4	4	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET414 DAIRY INSPECTION AND TECHNOLOGY					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET414	DAIRY INSPECTION AND TECHNOLOGY	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

To gain experience on the topics of hygienic milk production, dairy microbiology, milk borne infections, milk contaminants, dairy production technologies, quality control applications, related legal regulations, dairy plant management and improving the practicing skill

Teaching Methods and Techniques:

Safe and hygienic milking, storing of milk, transport to milk processing plants, Chemistry of milk and its importance in human nutrition, microbiology of milk and dairy products, Infections and intoxications linked to the consumption of dairy products and the contaminants, Introduction to milk industry, analyses applied to milk in the plants, starter cultures in milk industry, Yoghurt technology, Feta cheese technology, Traditionally produced cheese varieties, Technologies of some famous foreign cheeses, Butter technology, Milk drying technology, Food safety practises in dairy technology

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Kübranur YILDIZ BAYHAN

Instructors:

Asist Prof.Dr. Kübranur YILDIZ BAYHAN

Assistants:

Recommended Sources	
Textbook	: 1.Metin M. Süt Teknolojisi. Sütün Bileşimi ve İşlenmesi. Beşinci Baskı, Ege Üniversitesi Basımevi, İzmir, 2003.
Resources	:
Documents	: 2.Metin M, Öztürk F. Süt İşletmelerinde Sanitasyon. Ege Üniversitesi Basımevi, İzmir, 2003.
Assignments	: 3.Fox PF, McSweeney PLH. Advanced Dairy Chemistry. Volume 1, Third Edition, Part A and Part B. Kluwer Academic/Plenum Publishers, New York,
Exams	: 4.Üçüncü M. A'dan Z'ye Peynir Teknolojisi. Meta Basım Matbaacılık Hizmetleri, İzmir, 2004. 5.Tekinsen OC. Tekinsen K. Süt ve Süt Ürünleri. Selcuk Üniversitesi Basımevi. Konva. 2005.

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 40
Social Sciences	:	Field	: 60

Course Content			
Week	Topics	Study Materials	Materials
1	The importance of milk in nutrition and milk formation	The subjects of the future week have been	
2	Milk composition, factors affecting milk yield and composition	The subjects of the future week have been	
3	Chemical composition of milk	The subjects of the future week have been	
4	Chemical composition of milk	The subjects of the future week have been	
5	Physical properties of milk and abnormal milk	The subjects of the future week have been	
6	Milk collection and reception at the dairy plant	The subjects of the future week have been	
7	Technological processes applied to milk	The subjects of the future week have been	
8	Midterm examination		
9	Drinking milk technology	The subjects of the future week have been	
10	Cheese technology	The subjects of the future week have been	
11	Cheese technology	The subjects of the future week have been	
12	Yogurt technology	The subjects of the future week have been	
13	Butter technology	The subjects of the future week have been	
14	Milk drying technology	The subjects of the future week have been	
15	Ice cream technology	The subjects of the future week have been	
16	Mid-term exam	The final lesson	

Course Learning Outcomes	
No	Learning Outcomes
C01	Defines basic concepts and terms related to milk and dairy technology.
C02	Evaluates the chemical components and properties of milk and the factors affecting them.
C03	Explains the factors affecting the quantity and composition of milk.
C04	To gain knowledge on the regulations and legislations related to milk and dairy products, and their relevant interpretations
C05	Compares basic processing methods applied to raw milk and interprets their purposes.
C06	Evaluates dairy product production processes and the quality defects that may occur during these processes.
C07	Explains the importance of hygiene and safe production principles in milk and dairy products.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	6	2	12
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	4	3	2	3	5	2	4	2	2	3	1	1	2	1	4	1	4	3	1
C01	5	3	2	2	5	1	3	2	2	2	1	1	1	1	3	1	3	2	1
C02	4	3	2	2	5	1	3	2	2	3	1	2	2	1	4	2	4	2	1
C03	4	3	2	2	4	2	3	2	3	2	1	2	2	1	4	3	4	2	1
C04	3	4	2	2	4	3	4	2	2	5	3	1	2	1	5	1	5	3	3
C05	4	3	2	2	5	3	4	2	2	2	1	2	3	1	5	1	4	5	3
C06	4	3	2	2	5	2	3	2	3	2	1	1	4	1	3	1	5	5	1
C07	3	3	2	2	5	3	5	2	2	4	1	1	3	1	5	1	5	4	2

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET448 NAIL CUTTING					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET448	NAIL CUTTING	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to provide students with knowledge, skills, and practical competence regarding hoof anatomy, hoof care principles, hoof deformities, and hoof trimming techniques in large and small animals.

Teaching Methods and Techniques:

This course content includes hoof anatomy and physiology, hoof development, evaluation of deformities, lameness examination, preventive hoof care, and functional hoof trimming techniques. In addition, basic treatment approaches for hoof diseases are evaluated.

Prerequisites:

Course Coordinator:

Associate Prof.Dr. Mustafa Banş AKGÜL

Instructors:

Associate Prof.Dr. Mustafa Banş AKGÜL Associate Prof.Dr. Ali GÜLAYDINAst Prof.Dr. Kadir SULUProf.Dr. Nihat ŞINDAKProf.Dr. Mehmet SAĞLAMAsist Prof.Dr. Onur YILDIRIM

Assistants:

Research Assist. Bahar ERDEN Research Assist. Maruf YILMAZ Research Assist. Sevdet KILIÇ

Recommended Sources	
Textbook	: izci, C. (2018). Veterinary Orthopedics and Traumatology. Medipres Publishing, Malatya.
Resources	: Blowey, R. (1993). Cattle lameness and hoofcare: An illustrated guide. Farming Press. van Amstel, S. R., & Shearer, J. K. (2006). Manual for treat
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content		
Week	Topics	Study Materials
1	Introduction and importance of hoof trimming	
2	Anatomy of the bovine foot and hoof structure	
3	Horn formation, growth, and wear mechanisms	
4	Hoof biomechanics and weight distribution	
5	Lameness evaluation and scoring	
6	Hoof trimming equipment and safety	
7	Principles of functional hoof trimming (theoretical)	
8	MIDTERM EXAM	
9	Practical application of functional hoof trimming	
10	Hoof deformities and corrective trimming techniques	
11	Common hoof lesions (sole ulcers, white line disease, etc.)	
12	Treatment and corrective trimming procedures	
13	Footbaths, preventive care, and herd management	
14	Clinical practice: case evaluation and patient approach	
15	General review and practical evaluation	
16	END OF SEMESTER EXAM	

Recommended Optional Programme Components	
VET448 NAIL CUTTING	

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the anatomical structure of the bovine hoof and growth mechanisms.
C02	Describes hoof biomechanics, weight distribution, and wear processes.
C03	Applies functional hoof trimming techniques using appropriate equipment.
C04	Performs corrective trimming and basic treatment procedures for hoof lesions.
C05	Clinically evaluates hoof deformities and lesions.
C06	Develops herd-level preventive strategies to reduce lameness.
C07	Effectively manages clinical decision-making processes in hoof health management.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	14	2	28
Quizzes	0	%0	Hours for off-the-c.r.stud	14	2	28
Assignment	0	%0	Assignments	0	0	0
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	0	0	0
Project	0	%0	Practice	0	0	0
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	1	2	2
			Total Work Load			58
			ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	5	4	5	4	4	4	5	4	5	4	5	4	2	5	5	2
C01	5	4	5	4	4	5	5	5	5	5	4	5	5	5	5	2	5	4	2
C02	5	4	5	5	4	4	4	4	4	4	4	5	4	5	5	2	4	5	2
C03	4	5	5	3	5	5	5	5	3	5	5	4	4	5	5	2	4	5	2
C04	4	5	4	5	5	5	4	5	5	5	5	5	5	5	4	2	5	5	2
C05	5	5	5	5	5	5	5	5	5	4	3	5	5	5	5	2	5	4	2
C06	5	5	5	5	5	4	5	4	4	4	5	5	5	5	5	2	4	4	2
C07	5	5	4	5	5	5	4	4	5	5	5	5	4	4	5	2	5	5	2

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET410 VETERINARY FORENSICS MEDICINE					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET410	VETERINARY FORENSICS MEDICINE	1	1	1

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

In this course; it is aimed to provide veterinary candidates with the competence to act as expert witnesses in forensic cases, understand legal responsibilities, collect evidence, and prepare legal reports.

Teaching Methods and Techniques:

It covers veterinary legislation, crimes against animals, post-mortem changes, analysis of traumatic lesions, and forensic report writing techniques.

Prerequisites:

Course Coordinator:

Prof. Özgür Yaşar ÇELİK

Instructors:

Asist Prof.Dr. Özlem ERDEĞER

Assistants:

Research Assist. Mahsum Başak

Recommended Sources

Textbook	: Sankaya, Y. (2024). Adli Bilimler Dahilinde Veteriner Adli Tıp Bilimi. Kafkasya Journal of Health Sciences, 1(2), 31-37.
Resources	: Sankaya, Y. (2024). Adli Bilimler Dahilinde Veteriner Adli Tıp Bilimi. Kafkasya Journal of Health Sciences, 1(2), 31-37.,veterinary forensic medicine
Documents	: Veteriner adli tıp
Assignments	:
Exams	:

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	History of Veterinary Forensic Medicine		
2	Consultative Authority		
3	veterinary legislation.		
4	veterinary legislation.		
5	Dead and Related Reasons		
6	Dead and Related Reasons		
7	The Diseases that has to be Reported		
8	Midterm exam		
9	The Diseases that has to be Reported		
10	The Diseases that has to be Reported		
11	Domestic Quarantine Precautions		
12	Domestic Quarantine Precautions		
13	Domestic Quarantine Precautions		
14	Preparation of Health Reports		
15	Preparation of Health Reports		
16	Final Exam		

Course Learning Outcomes

No	Learning Outcomes
C01	Defines basic forensic medicine concepts and legal legislation.
C02	Analyzes post-mortem changes to determine time and cause of death.
C03	Collects and preserves evidence in forensic cases according to procedures.
C04	Clinically differentiates signs of animal abuse and maltreatment.
C05	Evaluates firearm, sharp object, and poisoning cases from a medico-legal perspective.
C06	Prepares a scientifically based forensic report with legal validity.
C07	Acts in accordance with professional ethics and legal responsibilities during expert testimony.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	1	14
Hours for off-the-c.r.stud	5	2	10
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	2	2
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	3	3
Total Work Load			29
ECTS Credit of the Course			1

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	4	4	3	5	4	3	3	5	5	4	4	3	4	3	5	5	4
C01	5	4	3	3	2	4	2	2	2	2	5	5	3	3	2	3	4	4	3
C02	4	4	4	4	3	5	3	3	3	3	2	3	5	5	4	3	3	4	4
C03	4	3	4	5	2	5	2	2	2	3	4	4	4	2	2	2	2	5	5
C04	4	4	5	4	4	5	4	4	5	5	4	4	5	3	5	5	4	5	4
C05	4	4	5	4	3	5	4	3	4	4	4	4	4	3	2	5	5	5	5
C06	5	4	4	4	4	5	4	3	4	5	4	4	3	5	3	5	5	5	4
C07	5	4	3	3	3	4	4	3	3	3	5	5	3	3	3	4	4	4	3

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET454 SAMPLING FROM ANIMALS SUSPECTED TO BE POISONED AND EVALUATION OF ANALYSIS RESULTS					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	VET454	SAMPLING FROM ANIMALS SUSPECTED TO BE POISONED AND EVALUAT	2	2	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

To teach the correct methods of taking, preserving and sending samples to the laboratory from animals suspected of poisoning; to provide the ability to interpret the results of toxicological analysis from a scientific and forensic perspective.

Teaching Methods and Techniques:

• The importance and legal aspects of poisoning cases • Sampling principles (biological materials, feed, water, environmental samples) • Ethical and legal rules to be considered during sampling • Sample storage, labeling, and laboratory shipment • Operation of veterinary forensic toxicology laboratories • Chemical analysis methods (GC-MS, LC-MS/MS, HPLC, etc.) • Histopathological and toxicological correlation • Preparation and evaluation of analysis reports • Sampling strategies in common poisonings (pesticides, rodenticides, heavy metals, mycotoxins, plant toxins) • Collaboration with different disciplines (public health, law, environment) in suspected poisoning cases • Interpretation of analysis results from case samples • Toxicological risk analysis with a One Health approach

Prerequisites:

Course Coordinator:

Associate Prof.Dr. DEVRAN COŞKUN

Instructors:

Associate Prof.Dr. DEVRAN COŞKUN

Assistants:

Recommended Sources

Textbook	:	
Resources	:	Gupta RC. Veterinary Toxicology: Basic and Clinical Principles, Osweiler GD. Toxicology, Clarke EG, Clarke ML. Clarke's Analysis of Drugs and Poisons
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Giriş: Zehirlenme vakalarının önemi, veteriner ve adli boyutu		
2	Numune alma prensipleri ve biyogüvenlik kuralları		
3	Klinik vakalarda biyolojik numune alma (kan, idrar, doku, mide içeriği)		
4	Cevresel ve vem numunelerinin alınması		
5	Numune saklama, etiketleme ve zincirleme sorumluluk (chain of custody)		
6	Veteriner adli toksikoloji laboratuvarlarının işlevi		
7	Kimyasal analiz yöntemleri I – Kromatografi (HPLC, GC-MS)		
8	Kimyasal analiz yöntemleri II – Spektroskopi ve hızlı test kitleri		
9	Histopatoloji – toksikoloji ilişkisi		
10	Pestisit ve rodentisit zehirlenmelerinde numune alma ve değerlendirme		
11	Ağır metal ve mikotoksin zehirlenmelerinde numune alma ve değerlendirme		
12	Bitkisel ve endojen toksinlerde numune alma ve analiz		
13	Analiz raporlarının yazımı, yorumlanması ve adli geçerliliği		
14	Vaka çalışmaları ve multidisipliner yaklaşım (halk sağlığı, hukuk, çevre)		

Recommended Optional Programme Components

VET415 TOXICOLOGY AND ENVIRONMENTAL PROTECTION

Course Learning Outcomes

No	Learning Outcomes
C01	• Explains the importance of the sampling and analysis processes in poisoning cases. • Correctly collects and stores various biological and environmental samples. • Applies the ethical and legal rule

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	7	1	7
Assignments	7	1	7
Presentation	7	1	7
Mid-terms	1	4	4
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	7	7
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	4	5	4	5	4	4	4	4	5	4	5	4	5	4	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

STJ402 COMPULSORY SUMMER INTERNSHIP-II					
Semester	Course Code	Course Name	L+P	Credit	ECTS
8	STJ402	COMPULSORY SUMMER INTERNSHIP-II	0	0	2

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Zorunlu

Goals:

Siirt University Veterinary Faculty to improve the knowledge and skills of students, to increase their professional visibility

Teaching Methods and Techniques:

to increase students' knowledge and skills in participating in routine applications made in selected institutions

Prerequisites:

Course Coordinator:

Prof.Dr. Tekin ŞAHİN

Instructors:

Assistants:

Recommended Sources

Textbook	:	veterinary faculty textbooks
Resources	:	veterinary faculty textbooks.
Documents	:	Veteriner Fakültesi ders kitapları
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
2	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
3	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
4	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
5	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
6	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
7	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
8	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
9	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
10	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
11	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
12	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
13	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.
14	To follow the procedures that take place in the internship institution, to participate in their practices and to develop their sl		veterinary faculty textbooks.

Course Learning Outcomes

No	Learning Outcomes
C01	Siirt University Veterinary Faculty to improve the knowledge and skills of students, to increase their professional visibility

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows; located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%20
Practice	0	%80
Project	0	%0
Final examination	0	%0
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	1	60	60
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			60
ECTS Credit of the Course			2

Course Contribution To Program	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

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Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

SEÇ005/1	VEHİP PERIOD-I				
Semester	Course Code	Course Name	L+P	Credit	ECTS
9	SEÇ005/1	VEHİP PERIOD-I	32	24	30

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

Consolidation of Veterinary Medicine Education

Teaching Methods and Techniques:

Courses for completion of Veterinary Medicine Education

Prerequisites:

Course Coordinator:

Prof.Dr. Tekin ŞAHİN

Instructors:

Assistants:

Recommended Sources

Textbook	:	Textbooks related to the field
Resources	:	Books and articles in the related field
Documents	:	
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Basic Sciences		
2	Basic Sciences		
3	Basic Sciences		
4	Basic Sciences		
5	Preclinical Sciences		
6	Preclinical Sciences		
7	Preclinical Sciences		
8	Preclinical Sciences		
9	Clinical Sciences		
10	Clinical Sciences		
11	Clinical Sciences		
12	Clinical Sciences		
13	Clinical Sciences		
14	zootechnics and Animal Nutrition		
15	zootechnics and Animal Nutrition		
16	Food Hygiene and Technology		
17	Food Hygiene and Technology		
18	final examination		

Course Learning Outcomes

No	Learning Outcomes
C01	Applies the diagnosis, treatment and prevention of diseases related to farm animals;
C02	Learns and practices routine operations in farm animals;
C03	Applies basic and advanced examination methods in patients brought to the small animal clinic;
C04	Learns and applies routine operations applied in small animals.;
C05	To be able to define poultry infectious diseases;
C06	To be able to define the pathological diseases of poultry;
C07	Learns the concept of food safety from farm to table;
C08	Knows and applies protection-control methods and legal regulations against zoonotic diseases;
C09	Learns the morphological and physiological characteristics of sheep and goat breeds in the world and in Turkey.
C10	Structure of cattle breeding, selection of breeding cows and bulls; learns selection in cows, breeding value, cow index, selection in bulls, selection of bull candidates, bull indexes;

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%100
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	18	8	144
Hours for off-the-c.r.stud	10	3	30
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	100	7	700
Laboratory	0	0	0
Project	0	0	0
Final examination	10	2	20
Total Work Load			894
ECTS Credit of the Course			30

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	3	5	4	5	5	4	3	5	4	4	5	4	5	4	5	4	4	5	4
C01	5	3	5	4	5	3	5	4	4	5	3	3	3	5	4	4	4	4	5
C02	5	3	5	4	5	3	5	4	5	3	5	4	4	5	3	5	4	5	3
C03	5	4	5	3	5	4	5	3	5	4	5	3	5	4	5	3	5	4	2
C04	4	5	3	5	4	3	5	5	5	5	5	4	5	5	3	3	3	3	3
C05	5	4	4	5	3	3	3	5	4	4	5	3	3	5	4	4	5	3	3
C06	3	5	4	5	5	5	4	5	5	3	5	4	5	5	3	5	4	4	4
C07	5	3	5	5	5	4	4	4	4	3	3	3	3	3	5	4	5	4	3
C08	5	4	5	4	5	4	5	4	5	4	3	3	5	4	5	3	5	4	5
C09	3	5	4	5	5	4	3	5	4	5	3	5	4	3	5	4	5	3	5
C10	4	5	3	2	4	5	3	2	5	4	5	3	5	4	5	3	5	4	5

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET504 FARM ANIMALS BREEDING AND MEDICINE GROUP					
Semester	Course Code	Course Name	L+P	Credit	ECTS
10	VET504	FARM ANIMALS BREEDING AND MEDICINE GROUP	32	24	30

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The objective of this course is to prepare veterinary medicine candidates as fully equipped and analytical-thinking physicians for their professional lives by providing them with advanced theoretical knowledge and practical skills in farm animal breeding, nutrition, herd health management, and the diagnosis and treatment of diseases.

Teaching Methods and Techniques:

The content of this internship course encompasses fundamental scientific and diagnostic applications in the departments of artificial insemination, pharmacology, pathology, parasitology, microbiology, virology, animal farm management, biochemistry, and genetics in farm animals. Furthermore, it includes the multidisciplinary resolution of herd-level health, welfare, productivity, and economic management issues by integrating comprehensive clinical practices in surgery and internal medicine with obstetrics, animal nutrition, and zootechnics applications through a rotation system.

Prerequisites:

Course Coordinator:

Prof.Dr. Tekin ŞAHİN

Instructors:

Prof.Dr. Özgür Yaşar ÇELİKAsist Prof.Dr. Ayfer FINDIK PAKROOHAssociate Prof.Dr. Mustafa Barış AKGÜLAssociate Prof.Dr. Devran COŞKUNAssociate Prof.Dr. Yalçın YAMANProf.Dr. Tuncay TUFANAssociate Prof.Dr. Özgül GÜLAYDINAsist Prof.Dr. Ahmet ESERAsist Prof.Dr. Öznur YILMAZ KOÇProf.Dr. Murat KARAProf.Dr. Kıvanç İRAKAsist Prof.Dr. Özgür ÖZÖNERAsist Prof.Dr. Mehmet EROĞLU

Assistants:

Recommended Sources

Textbook	:	1- Veterinary Medicine, Blood D.C., Radostitis O.M., X. ed., London, 2007
Resources	:	2- Sheep and Goat Medicine- Pugh, D.G., Philadelphia, 2002
Documents	:	3- Bovine Medicine-Diseases and Husbandry of Cattle, Andrews A.H., London, 2007
Assignments	:	4- Large Animal Internal Medicine-Smith BP, Philadelphia, 2009
Exams	:	5- Herd Health. Food Animals Production Medicine. Otto M. Radostits, Ed. Linda L. Duncan. 3th edition,2001, W.B. Saunders Company, 6- Yemler. vem hiiveni ve teknoloisi (Düzeltilmiş 2. baskı). Eraun. A.. Tuncer. D. S.. Colban. İ.. Yalcın.S.. Yıldız. G.. Küçükersan. K.. Küçükersan. S.

Course Category

Mathmatics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	Artificial InseminationDay 1: Theoretical - Reproductive physiology and endocrinology in farm animals.Day 2: Practical - Se		
2	Applies diagnosis, treatment and prevention of diseases of farm animals in hospital, faculty farm and mobile clinic. Particip	Pharmacology Day 1: Theoretical - Phan	
3	Applies diagnosis, treatment and prevention of diseases of farm animals in hospital, faculty farm and mobile clinic. Particip	Pathology Day 1: Theoretical - Overview	
4	Parasitology (0.5 Week) & Microbiology (0.5 Week)Day 1: (Parasitology) Theoretical - Endo/ectoparasites causing economi		
5	Virology (0.5 Week) & Animal Farm Management (0.5 Week)Day 1: (Virology) Theoretical - Important viral infections of fai		
6	Biochemistry (0.5 Week) & Genetics (0.5 Week)Day 1: (Biochemistry) Theoretical - Metabolic profile and clinical biochemis		
7	SurgeryTheoretical & Practical - Sedation, local/general anesthesia techniques in farm animals; Foot diseases (Podology), f		
8	SurgeryPractical & Clinical - Ruminant gastrointestinal surgery (Rumenotomy, etc.), abdominal surgery, urinary system suri		
9	SurgeryClinical - Teat operations, dehorning, wound care, emergency surgery shift, and case presentations. Week 9, Day 5		
10	Internal MedicineTheoretical & Practical - Digestive system diseases (Rumen acidosis/alkalosis), intubation, respiratory syst		
11	Internal MedicineClinical - Metabolic diseases (Ketosis, Hypocalcemia), diagnosis of circulatory and urinary system diseases		
12	Internal MedicineClinical - Herd health and preventive medicine, mastitis diagnosis and control (somatic cell count), neonat		
13	Obstetrics / GynecologyTheoretical & Practical - Pregnancy physiology, rectal and ultrasonographic pregnancy examination		
14	Obstetrics / GynecologyDystocia interventions, fetotomy and cesarean operations, solving herd infertility problems, and gyt		
15	Animal NutritionTheoretical & Practical - Ruminant digestive physiology, identification of roughage/concentrate feed raw m		
16	Animal NutritionPractical - Computer-aided ration formulation (TMR preparation), feeding strategies according to productio		
17	ZootechnicsTheoretical & Practical - Farm animal breeds, body conformation assessment (linear type scoring), housing syst		
18	ZootechnicsPractical - Use of herd management software, milking systems and hygiene, farm biosecurity risk analysis, and		

Course Learning Outcomes

No	Learning Outcomes
C01	Evaluates the diagnosis and treatment protocols of systemic diseases in farm animals in accordance with clinical practice.
C02	Applies necessary general and special surgical interventions in farm animals according to scientific methods and asepsis rules.
C03	Manages reproduction, artificial insemination, and obstetric (birth) processes effectively in farm animals.
C04	Designs ration programs for farm animals appropriate for their physiological periods and production types.
C05	Interprets basic laboratory analysis results by taking appropriate clinical samples for the diagnosis of diseases.
C06	Plans preventive medicine applications, vaccination, and biosecurity strategies within the scope of herd health.
C07	Analyzes farm management and medical practices within the context of ethical rules, economic parameters, and legal regulations.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%100
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	18	8	144
Hours for off-the-c.r.stud	18	8	144
Assignments	0	0	0
Presentation	15	15	225
Mid-terms	0	0	0
Practice	15	15	225
Laboratory	15	10	150
Project	0	0	0
Final examination	1	8	8
Total Work Load			896
ECTS Credit of the Course			30

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	1	4	4
C01	5	4	4	5	4	5	4	3	3	4	4	2	4	3	3	3	4	5	5
C02	5	5	4	5	5	4	5	5	5	4	5	4	5	4	5	4	5	5	5
C03	5	5	5	4	5	5	5	4	4	5	4	3	4	5	5	4	3	4	3
C04	4	4	4	5	3	3	4	5	4	4	5	4	5	3	3	5	2	4	3
C05	4	5	4	4	5	3	4	5	5	4	4	2	3	3	4	5	3	3	3
C06	5	5	3	3	4	4	3	4	5	5	5	3	3	4	4	4	2	3	2
C07	5	4	5	4	4	5	3	3	4	5	4	5	4	4	3	2	4	4	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET508 FOOD SAFETY AND TECHNOLOGY GROUP					
Semester	Course Code	Course Name	L+P	Credit	ECTS
10	VET508	FOOD SAFETY AND TECHNOLOGY GROUP	32	24	30

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to enable veterinary students to gain scientific, ethical, and practical competencies in food safety, food hygiene, food technology, and public health, and to evaluate safe animal-origin food production processes.

Teaching Methods and Techniques:

This course covers hygiene and sanitation practices in animal-based foods, foodborne zoonoses, quality control systems, food microbiology, toxicology, veterinary public health, biosecurity in animal production, laboratory practices, molecular diagnostic methods, feed hygiene, genetic analyses, virological and parasitological examinations, and food safety regulations.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Kübranur YILDIZ BAYHAN

Instructors:

Asist Prof.Dr. Kübranur YILDIZ BAYHAN Asist Prof.Dr. MEHMET EROĞLU Associate Prof.Dr. Devran COŞKUN Associate Prof.Dr. Özgül GÜLAYDIN Associate Prof.Dr. Burçak ASLAN ÇELİK Prof.Dr. Tuncay TUFAN Associate Prof.Dr. Yalçın YAMAN Asist Prof.Dr. AYFER FINDIK PAKROO Associate Prof.Dr. Fatma İŞBİLİR Associate Prof.Dr. Banu KANDİL

Assistants:

Recommended Sources	
Textbook	: Dursun, N. (2010). Veterinary Anatomy I. Dursun, N. (2010). Veterinary Anatomy III. Dyce, K. M. (1987). Textbook of Veterinary Anatomy. Philade
Resources	: Arslan A. (2002). Et muayenesi ve et ürünleri teknolojisi Birinci Baskı, Medipress, Özkan Matbaacılık
Documents	:
Assignments	:
Exams	:

Course Category			
Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	: 100
Social Sciences	:	Field	:

Course Content			
Week	Topics	Study Materials	Materials
1	Food safety concept and veterinary public health, Basic principles of food hygiene, Foodborne zoonoses, Sanitation and disinfection		
2	Poultry product hygiene, Fish and seafood hygiene, Food additives, Food toxicology, Sampling techniques, Laboratory quality control		
3	Introduction to Food Microbiology, Microbiological Analysis Methods, Coliform Analysis, Salmonella Analysis, Listeria Analysis		
4	Feed hygiene, Mycotoxins, Storage conditions, Cold chain practices, Packaging technologies, Fermented product technology		
5	Food safety surveillance, Biosecurity practices, Organic animal production, Good manufacturing practices, Food inspection, Quality control in meat products, Quality control in dairy products, Sensory analysis methods, Physical analysis methods, Chemical analysis methods		
6	Risk management in food businesses, Emergency management, Traceability systems, Digital record-keeping systems, Current molecular diagnostic methods, PCR applications, Rapid diagnosis of foodborne pathogens, Antimicrobial resistance, Resistance		
7	Multidisciplinary Approach to Food Safety, Professional Ethics, Veterinary Legislation, Official Reporting Techniques, General Introduction to Veterinary Pharmacology, Use of Medicines in Food-Producing Animals, Residue and Withdrawal Periods, Toxicology		
8	Applications of veterinary microbiology, Culture and isolation techniques, Antibioassay testing, Molecular microbiology, Laboratory animal production systems, Animal welfare practices, The relationship between productivity and quality, Farm management		
9	Parasite diagnostic methods, Microscopic examinations, Zoonotic parasites, Laboratory procedures, Assessment Exam		
10	Feed technology, Ration formulation, Nutritional diseases, Feed additives, Laboratory applications, Evaluation Exam		
11	Molecular genetic methods, Genetic variations, PCR and sequence analysis, Genetics in animal production, Laboratory applications		
12	Introduction to Veterinary Virology, Viral Zoonoses, Viral Diagnostic Methods, Biosecurity Practices, Laboratory Practices, A		
13	Anatomical structures of food animals, Slaughter anatomy, Organ examinations, Macroscopic evaluation, Practical exercises		
14	Histological examination methods, Tissue preparation, Microscopic evaluation, Examination of pathological changes, Laboratory		

Course Learning Outcomes	
No	Learning Outcomes
C01	Explains the fundamental concepts related to food safety, food hygiene, and veterinary public health.
C02	Applies hygiene, sanitation, and quality control practices in foods of animal origin.
C03	Analyzes microbiological, virological, and parasitological risks associated with food.
C04	Evaluates and interprets laboratory analysis results using scientific methods.
C05	Evaluates legislation, ethical rules, and biosecurity practices related to food safety.
C06	Determines food safety risks in animal production processes and plans appropriate preventive measures.
C07	Acts with interdisciplinary collaboration, effective communication, and professional responsibility in vocational practices.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of development
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard
P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%100
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	18	16	288
Hours for off-the-c.r.stud	18	16	288
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	18	16	288
Laboratory	0	0	0
Project	0	0	0
Final examination	1	36	36
Total Work Load			900
ECTS Credit of the Course			30

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	3	5	5	3	1	4	4	5	5	4	4	4	5	5	5	5	5
C01	5	4	4	3	5	5	4	3	3	2	4	3	3	2	4	2	3	2	3
C02	3	3	5	5	5	5	4	4	4	3	4	3	5	4	5	4	5	4	5
C03	3	4	5	4	5	5	5	4	4	3	4	3	5	4	5	3	5	5	5
C04	3	3	4	4	5	5	5	4	5	4	4	5	5	4	4	4	5	5	5
C05	4	4	3	3	4	4	4	3	4	5	5	3	4	5	5	4	4	3	4
C06	4	3	5	4	5	5	5	4	5	4	4	3	5	5	5	4	4	5	4
C07	4	5	3	3	4	4	4	5	5	5	5	4	4	4	4	5	4	3	4

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FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET510 POULTRY BREEDING AND MEDICINE GROUP					
Semester	Course Code	Course Name	L+P	Credit	ECTS
10	VET510	POULTRY BREEDING AND MEDICINE GROUP	32	24	30

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim of this course is to train veterinary students who can comprehensively evaluate flock health, diagnosis of infectious diseases, preventive medicine, biosafety, production management, and public health practices in the field of poultry husbandry and medicine.

Teaching Methods and Techniques:

This course includes flock management, nutrition, housing management, biosafety practices, diagnosis of bacterial, viral, fungal, and parasitic diseases, laboratory applications, necropsy, preventive medicine, vaccination programs, antimicrobial resistance, zoonotic diseases, public health, and clinical practices in the poultry industry. The course consists of both theoretical and practical training.

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Songül ÖTKÜN

Instructors:

Asist Prof.Dr. Ayfer FINDIK PAKROOHAAsist Prof.Dr. Burcak ASLAN ÇELİKAsist Prof.Dr. Kübranur YILDIZ BAYHANAsist Prof.Dr. Özgür ÖZÖNERAsist Prof.Dr. Özgül GÜLAYDINAssociate Prof.Dr. Yalçın YAMANProf.Dr. Tuncay TUFANAssociate Prof.Dr. Devran KOŞKUNAssociate Prof.Dr. Mehmet IRMAKProf.Dr. H. Turan AKKOYUNAssociate Prof.Dr. Fatma İŞBİLİRAsist Prof.Dr. Merve PEKİNCE ÖZÖNER

Assistants:

Recommended Sources	
Textbook	: Boynukara, B., Ak, S., Başaran Kahrman, B., & Adıgüzel, M. C. (Eds.). (2025). Enfeksiyöz kanatlı hayvan hastalıkları. Akademisyen Kitabevi.
Resources	: WOA. (2025). Manual of diagnostic tests and vaccines for terrestrial animals. World Organisation for Animal Health.
Documents	: Baykal Çelik, L., & Tekeli, A. (Eds.). (2025). Kanatlı hayvanlarda beslenme ile ilişkili metabolik durumlar. Akademisyen Yayınevi.
Assignments	: Kaya, S., Piringci, İ., & Bilgili, A. (2002). Veteriner hekimliğinde toksikoloji. Medisan Yayınları.
Exams	: Çakır, A., Bakıcı, C., & Batur, B. (2024). Evcil kanatlı hayvanların anatomisi. Ankara Nobel Tıp Kitabevleri.
	Günlü, A. (2023). Hayvan sağlığı ekonomisi (1. bs.). Akademisyen Yayınevi.

Course Category	
Mathmatics and Basic Sciences	Education :
Engineering	Science :
Engineering Design	Health : 100
Social Sciences	Field :

Course Content	
Week	Topics
1	Biosafety rules in the microbiology laboratory, laboratory organization, quality management systems, operating principles c
2	Bacterial inoculation methods, culture techniques, principles of microbial isolation and identification, evaluation of routine b
3	Nutrient requirements in poultry, energy and protein metabolism, characteristics of feed ingredients, principles of ration for
4	Types of poultry production systems, housing systems, environmental control, ventilation systems, temperature and humid
5	Flock management in poultry production, housing systems, ventilation and environmental control, litter management, light
6	Flock health management in poultry diseases, preventive medicine practices, general evaluation of biosafety programs, int
7	Antimicrobial drugs used in poultry diseases, pharmacokinetic and pharmacodynamic principles, rational drug use, antimicr
8	Vaccination programs in poultry, storage of biological products, usage areas of disinfectants and antiseptics, preventive m
9	Major viral infections in poultry, Avian influenza, Newcastle disease, Infectious Bronchitis, Gumboro disease, Marek's diseas
10	Diagnostic methods used in molecular virology, PCR and RT-PCR applications, serological diagnostic methods, rapid diagno
11	Major parasitic diseases in poultry, coccidiosis, helminth infections, ectoparasites, epidemiology of parasitic diseases, trans
12	Physiological mechanisms in poultry, physiology of the digestive system, functions of the respiratory system and air sacs, c
13	Food safety in poultry products, zoonotic infections, Salmonella and Campylobacter infections, slaughterhouse hygiene, cor
14	Examination of basic histological structures in poultry, microscopic characteristics of epithelial, connective, muscular, and n
15	Genetic variations in poultry, principles of inheritance, selection methods, genetic basis of productivity traits, breeder sele
16	Economic management in poultry farms, economic importance of flock health practices, cost analysis of biosafety investme
17	Anatomical structures in poultry, anatomy of digestive, respiratory, and urogenital systems, basic principles of poultry phys
18	Necropsy techniques in poultry diseases, systematic necropsy applications, evaluation of macroscopic and microscopic lesic

Recommended Optional Programme Components	
VET323 MICROBIOLOGY-II	
VET307 VIROLOGY-II	
VET251 LABORATORY WORKING PRINCIPLES	
VET252 RATIONAL DRUG USE	
VET270 TURKEY, GOOSE AND DUCK NUTRITION	
VET351 IMPORTANCE OF DRUG RESIDUES IN FOOD FOR HUMAN AND ANIMAL HEALTH	
VET464 POULTRY NUTRITION AND METABOLISM DISEASES	

Course Learning Outcomes	
No	Learning Outcomes
C01	Evaluates the etiology, epidemiology, clinical findings, and laboratory diagnostic methods of poultry diseases.
C02	Applies laboratory diagnostic methods in poultry diseases.
C03	Plans biosafety practices in poultry farms.
C04	Organizes poultry vaccination programs and vaccination methods.
C05	Analyzes hatchery health management practices.

Program Learning Outcomes	
No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
P18	The diagnosis of diseases in order to take samples from the animals to their corresponding place duly evaluates the results
P15	Preventive medicine knows what should be done in the context of public health and food safety issues and make disclosures in this regard

P12	All surgical interventions in the field of scientific methods and meticulous
P11	Medicine understand the theoretical knowledge about the ethical and adhere to ethical professional life
P08	In animal breeding and feeding areas will have theoretical and practical knowledge
P07	Animal diseases, zoonoses and food-borne diseases theoretical knowledge and learning practices and uses
P06	Fight against animal diseases and prevention methods, sending and receiving infected material, autopsy techniques comprehend issues, including theoretical and practical issues
P05	Production technology of animal products, food safety and public health issues will have theoretical and practical knowledge
P10	Understand the national and international legislation about the area
P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%100
Total		%100

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	18	16	288
Hours for off-the-c.r.stud	18	18	324
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	18	16	288
Laboratory	0	0	0
Project	0	0	0
Final examination	1	0	0
Total Work Load			900
ECTS Credit of the Course			30

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	4	5	4	4	4	5	3	4	3	3	4	5	5	4	3	4	5	5
C01	5	3	5	4	4	4	4	3	3	3	3	5	5	5	3	2	3	4	5
C02	3	3	5	5	4	3	5	3	4	3	4	5	5	4	4	2	4	5	5
C03	3	3	4	4	4	4	5	3	4	4	3	3	4	5	4	4	4	3	4
C04	3	4	4	3	4	3	5	3	4	3	3	3	4	5	4	2	3	3	4
C05	3	3	4	4	4	4	5	3	4	3	3	3	4	4	4	2	3	3	4

Siirt University

FACULTY OF VETERINARY MEDICINE Veterinary Medicine

VET514 PET ANIMALS BREEDING AND MEDICINE GROUP					
Semester	Course Code	Course Name	L+P	Credit	ECTS
10	VET514	PET ANIMALS BREEDING AND MEDICINE GROUP	32	24	30

Language of Instruction:

Turkish

Course Level:

Faculty

Work Placement(s):

No

Department / Program:

Veterinary Medicine

Course Type:

Seçmeli

Goals:

The aim is to provide students with experience and skills in small animal medicine, to enable them to diagnose various diseases encountered in the clinic based on clinical laboratory findings, to administer appropriate treatments accordingly, and to teach future clinicians about the relationship between the patient, the owner, and the veterinarian.

Teaching Methods and Techniques:

Being knowledgeable about pet animal breeding

Prerequisites:

Course Coordinator:

Asist Prof.Dr. Gülşah akgül

Instructors:

Assistants:

Recommended Sources

Textbook	:	cat and dog diseases
Resources	:	veterinary medicine
Documents	:	Küçük hayvan Hastalıkları
Assignments	:	
Exams	:	

Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences	:	Field	:

Course Content

Week	Topics	Study Materials	Materials
1	It diagnoses various diseases of small animals in animal hospital in the context of clinical laboratory findings, treats them a		Small animal disease
2	It diagnoses various diseases of small animals in animal hospital in the context of clinical laboratory findings, treats them a		Small animal disease
3	It diagnoses various diseases of small animals in animal hospital in the context of clinical laboratory findings, treats them a		small animal disease
4	It diagnoses various diseases of small animals in animal hospital in the context of clinical laboratory findings, treats them a		small animal disease
5	It diagnoses various diseases of small animals in animal hospital in the context of clinical laboratory findings, treats them a		small animal disease
6	It diagnoses surgical diseases of small animals in animal hospital, carries out medical and operative treatment and applies		small animal disease
7	It diagnoses surgical diseases of small animals in animal hospital, carries out medical and operative treatment and applies		small animal disease
8	It diagnoses surgical diseases of small animals in animal hospital, carries out medical and operative treatment and applies		small animal disease
9	It diagnoses surgical diseases of small animals in animal hospital, carries out medical and operative treatment and applies		small animal diseases
10	It diagnoses surgical diseases of small animals in animal hospital, carries out medical and operative treatment and applies		small animal diseases
11	Reproduction in small animals, birth aid, breast health and artificial insemination are done in hospitals, shelters and private		small animal diseases
12	Reproduction in small animals, birth aid, breast health and artificial insemination are done in hospitals, shelters and private		small animal diseases
13	Reproduction in small animals, birth aid, breast health and artificial insemination are done in hospitals, shelters and private		small animal diseases
14	Reproduction in small animals, birth aid, breast health and artificial insemination are done in hospitals, shelters and private		small animal diseases

Course Learning Outcomes

No	Learning Outcomes
C01	Applies basic and advanced examination methods to patients brought to small animal clinic.
C02	Learn how to obtain and interpret clinical laboratory findings determined by various techniques for accurate clinical diagnosis of diseases encountered in the field of small animal medicine
C03	They learn how to choose different treatment methods and basic therapeutic practices.

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
P17	Knows basic food analysis methods, taking samples, analysis and evaluate reports
P13	In terms of various animal diseases, examination, diagnosis and treatment options knows, located in the assessment and perform applications
P09	Animal diseases, treatment methods, gain knowledge about the economic aspects of breeding and feeding techniques and evaluation is found in
P03	The causes of animal diseases, formation, on the diagnosis and treatment will have theoretical and practical knowledge
P02	Contains up to date information in the field of textbooks, magazines and follow the web site
P01	Understand the relationships between concepts and concepts related to the field
P16	Animals found in productivity-enhancing activities; makes breeding studies with artificial ways
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P14	Knows the methods of combating animal diseases, vaccination programs are organized for all animals
P19	Knows, applies and interprets laboratory analyzes in basic animal diseases.

Assessment			ECTS Allocated Based on Student Workload			
In-Term Studies	Quantity	Percentage	Activities	Quantity	Duration	Total Work Load
Mid-terms	1	%40	Course Duration	0	0	0
Quizzes	0	%0	Hours for off-the-c.r.stud	0	0	0
Assignment	0	%0	Assignments	1	30	30
Attendance	0	%0	Presentation	0	0	0
Practice	0	%0	Mid-terms	0	0	0
Project	0	%0	Practice	3	20	60
Final examination	1	%60	Laboratory	0	0	0
Total		%100	Project	0	0	0
			Final examination	20	40	800
			Total Work Load			890
			ECTS Credit of the Course			30

Course Contribution To Program																			
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant																			
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19
All	5	5	4	5	4	5	5	4	5	5	4	5	5	5	5	1	1	5	5

Program Learning Outcomes

No	Learning Outcome
P04	Enhance knowledge and skills relating to a wide range of veterinary Professional practice areas. Enhance knowledge and understanding of veterinary medicine, and a critical awareness of developm
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Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		%0

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			0
ECTS Credit of the Course			0

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant

