

APPLICATION GUIDELINES

I. SEMESTER

Course Code	Course Name	T	P	C	ECTS
VET101	Anatomy I	3	4	5	6

Anatomy I

Practical Course Guide

Week	Name	Number
1.	Application on bones for the comparative anatomical structures of scapula and humerus in animal species.	1
2.	Comparative application of antebrachium, ossa carpi, ossa metacarpalia and ossa digitorum manus on bones for their anatomical structures in animal species.	1
3.	Comparative application of os coxae, os femoris and patella on bones for their anatomical structures in animal species.	1
4.	Comparative application of ossa cruris, ossa tarsi, ossa metatarsalia and ossa digitorum pedis on bones for their anatomical structures in animal species.	1
5.	Application of Neurocranium on bones for comparative anatomical structures in animal species.	1
6.	Application of Viscerocranium on bones for comparative anatomical structures in animal species.	1
7.	Application of Vertebrae cervicales on bones for comparative anatomical structures in animal species.	1
8.	Comparative application of vertebrae thoracicae, vertebrae lumbales, vertebrae sacrales, vertebrae caudales on bones for their anatomical structures in animal species.	1
9.	Comparative application of costae and sternum on bones for their anatomical structures in animal species.	1
10.	Application on bones and skeleton for comparative anatomical structures of joints in animal species.	1
11.	Application of head, neck and body axis muscles on models and cadavers for comparative anatomical structures in animal species.	1
12.	Application of diaphragm, abdominal muscles and extremity muscles on models and cadavers for comparative anatomical structures in animal species.	1
13.	Application of anatomical structures and organs of Systema respiratorium on plastinates, models and cadavers.	1
14.	Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET103	Histology I	2	2	3	5

Histology I
Practical Course Guide

Week	Name	Number
1.	Introduction of Light Microscope and Its Parts	1
2.	Introduction to Histology and Providing Information About Basic Histology Techniques	1
3.	Histological Tissue Tracking	1
4.	Examination of Nucleus Structure and Mitosis Preparations	1
5.	Examination of Covering Epithelial Preparations under Light Microscopy	1
6.	Examination of Secretory Epithelial Preparations under Light Microscopy	1
7.	Examination of Preparations of Connective Tissue Types under Light Microscopy	1
8.	Examination of Preparations of Connective Tissue Cells and Fibers under Light Microscopy	1
9.	Examination of Cartilage Tissue Preparations under Light Microscopy	1
10.	Examination of Bone Tissue Preparations under Light Microscopy	1
11.	Examination of Blood Tissue Preparations under Light Microscopy	1
12.	Examination of Muscle Tissue Preparations under Light Microscopy	1
13.	Examination of Nervous Tissue Preparations under Light Microscopy	1
14.	Compensation and General Repetition	1

II. SEMESTER

Course Code	Course Name	T	P	C	ECTS
VET102	Anatomy II	3	4	5	6

Anatomy II

Practical Course Guide

Week	Name	Number
1.	Application of labia, bucca, dentes, lingua, pharynx, palatum and ventriculus on plastinates, cadavers and models for comparative anatomical structures in animal species.	1
2.	Comparative application of intestinum tenue, intestinum crassum, hepar, pancreas and cavum abdominis et pelvis on plastinates, cadavers and models for anatomical structures in animal species.	1
3.	Application of ren, ureter, vesica urinaria, urethra masculina, testis and penis on plastinates, cadavers and models for comparative anatomical structures in animal species.	1
4.	Application of ovarium, uterus, vagina, urethra feminina on plastinates, cadavers and models for comparative anatomical structures in animal species.	1
5.	Comparative anatomical structures of the cor, truncus pulmonalis, aorta in animal species on plastinates, cadavers and models.	1
6.	Plastinates for the anatomical structures of arteries in animal species comparatively, application on cadavers and models.	1
7.	Comparative anatomical structures of the venae and lymphatic system in animal species on plastinates, cadavers and models.	1
8.	Comparative application of systema nervosum centrale on plastinates, cadavers and models for anatomical structures in animal species.	1
9.	Application of systema nervosum periphericum on plastinates, cadavers and models for comparative anatomical structures in animal species.	1
10.	Application of organum visus oculus and organum vestibulocochleare on plastinates, cadavers and models for comparative anatomical structures in animal species.	1
11.	Comparative application of integumentum communa on plastinates, cadavers and models for anatomical structures in animal species.	1
12.	Macro-anatomical application of movement, digestive, respiratory, urogenital and endocrine systems in poultry on bones, skeletons, models and cadavers.	1
13.	Macro-anatomical application of circulatory, nervous systems, sensory organs, skin and epidermoidal formations in poultry on models and cadavers.	1
14.	Compensation and general repetition.	1

Course Code	Course Name	T	P	C	ECTS
VET104	Histology II	2	2	3	4

Histology II
Practical Course Guide

Week	Name	Number
1.	Examination of Preparations of the Nervous System under Light Microscopy	1
2.	Examination of Preparations of the Circulatory System under Light Microscopy	1
3.	Examination of Preparations of the Lymphoid System under Light Microscopy	1
4.	Examination of Preparations of the Digestive System under Light Microscopy	1
5.	Examination of Preparations of the Digestive System under Light Microscopy	1
6.	Examination of Preparations of the Digestive System Glands under Light Microscopy	1
7.	Examination of Preparations of the Respiratory System under Light Microscopy	1
8.	Examination of Preparations of the Urinary System under Light Microscopy	1
9.	Examination of Preparations of the Male Genital System under Light Microscopy	1
10.	Examination of Preparations of the Female Genital System under Light Microscopy	1
11.	Examination of Preparations of the Endocrine System under Light Microscopy	1
12.	Examination of Preparations of the Integumentary System under Light Microscopy	1
13.	Examination of Preparations of the Sensory System under Light Microscopy	1
14.	Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET106	Biochemistry I	3	2	4	6

Biochemistry I
Practical Course Guide

Week	Name	Number
1.	Introduction of the rules to be followed and the materials to be used in the Biochemistry I practice course	1
2.	Solution preparation	1
3.	Ninhydrin experiment	1
4.	Fehling experiment	1
5.	Osazon experiment	1
6.	Legal and Lieben experiments	1
7.	Salkowski and Liebermann experiments	1
8.	Ester formation, demonstration of double bonds in fatty acids and acrolein experiments	1
9.	Xantoprotein experiment	1
10.	Biuret experiment	1
11.	Hydrolysis experiment of sucrose	1
12.	Pettenkofer, Hay and Bile mucin experiments	1
13.	Rosin and Fouchet experiments	1
14.	Amylase experiment Compensation and general repetition.	1

Course Code	Course Name	T	P	C	ECTS
VET110	Molecular Biology and Genetics	2	2	3	3

Molecular Biology and Genetics

Practical Course Guide

Week	Name	Number
1.	Laboratory Introduction, and Introduction to Used Laboratory Equipment	1
2.	Use of Various Databases and Programs Related to Molecular Biology and Genetics	1
3.	RNA Isolation (Animal Tissue)	1
4.	RNA Concentration Determination	1
5.	cDNA Production with Reverse Transcriptase	1
6.	RT-PCR Method	1
7.	DNA Isolation (Animal Tissue)	1
8.	Agarose Gel Electrophoresis	1
9.	DNA Extraction from Agarose Gel	1
10.	PCR and Agarose	1
11.	Extraction of Total Protein from Animal Tissue	1
12.	SDS-PAGE	1
13.	Western Blot Method	1
14.	Compensation and general repetition.	1

III. SEMESTER

Course Code	Course Name	T	P	C	ECTS
VET203	Physiology I	3	2	4	6

Physiology I Practical Course Guide

Week	Name	Number
1.	Introduction of Thoma Slide	1
2.	Red Blood Cell Count by Haemocytometric Method	1
3.	White Blood Cell Count by Haemocytometric Method	1
4.	Hemoglobin Determination by Sahli Method	1
5.	Hematocrit Determination	1
6.	Sedimentation Rate of Red Blood Cells	1
7.	Osmotic Fractility of Red Blood Cells	1
8.	Determination of Blood Groups	1
9.	Determination of Clotting Time and Bleeding Time	1
10.	Peripheral Blood Sides	1
11.	White Blood Cell Formula	1
12.	Blood Pressure Measurement and Pulse	1
13.	ECG, Assessment of Respiratory Volume and Capacity	1
14.	Compensation and general repetition.	1

Course Code	Course Name	T	P	C	ECTS
VET207	Biochemistry II	3	2	4	6

Biochemistry II
Practical Course Guide

Week	Name	Number
1.	Introduction of the rules to be followed and the materials to be used in the Biochemistry II Practice Course	1
2.	Urine sample collection and physical examination	1
3.	Use of urine test strips and demonstrating the presence of sugar in the urine	1
4.	Demonstration of the presence of protein in urine	1
5.	Demonstration of the presence of ketone bodies in the urine	1
6.	Demonstration of the presence of bile-colored pigments in the urine	1
7.	Microscopic examination of urine	1
8.	Rules to be considered when taking and storing blood samples	1
9.	Total protein analysis in serum	1
10.	Total cholesterol analysis in serum	1
11.	Analysis of creatinine in serum	1
12.	Determination of inorganic phosphorus in serum	1
13.	Comparison of vitamin C contents of different fruit juices	1
14.	Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET209	Zootechnics I (Husbandry of Laboratory Animals)	2	2	1,5	1

Zootechnics I (Husbandry of Laboratory Animals)

Practical Course Guide

Week	Name	Number
1-4	Ideal environment for Laboratory Animals (ATADEM)	4
5-8	Rat-Mouse species- training (Live)	4
9-11	Rabbit-training (Live)	3
12-13	Other Laboratory animal species and fish (images) and	2
14	Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET211	Zootechnics II (Small Animal Breeding)	2	2	2,5	3

Zootechnics II (Small Animal Breeding)

Practical Course Guide

Week	Name	Number
1.	Introduction of sheep shelters	1
2.	Morphological comparison of sheep and goat	1
3.	Examination of the head, neck and withers of sheep	1
4.	Examination of back, waist, yolk and abdominal areas of sheep	1
5.	Examination of feet and legs in sheep	1
6.	Age detection in sheep	1
7.	Introduction of lamb, yearling, sheep and ram	1
8.	Fattening condition and condition score in sheep	1
9.	Calculating the number of sheep per ram in the farm	1
10.	Calculation of fertility in the herd	1
11.	Determination of physical properties of fleece	1
12.	Determination of chest circumference, body length and withers height of ewes of different ages and breeds.	1
13.	Şheep and goat breeds	1
14.	Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET213	Zootechnics III (Ruminant Breeding)	3	2	4	6

Zootechnics III (Ruminant Breeding)

Practical Course Guide

Week	Name	Number
1.	Biosecurity	1
2.	Identification of individual cattle (ear tag, transpondr etc.)	1
3.	Age determination	1
4.	Determination of morphological characteristics of cattle breeds	1
5.	Type scoring	1
6.	Body condition scoring (BCS)	1
7.	Cleanliness scoring	1
8.	Calculation of labor hours per cow	1
9.	Evaluation of calf shelters	1
10.	Evaluation of the facility in terms of animal welfare (tear discharge, runny nose, lameness, diarrhea)	1
11.	Positive emotional state assessment	1
12.	Care of calves during the liquid feed period	1
13.	Evaluation of feeders and manure	1
14.	Measurement of skills gained in practical courses Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET 215	Zootechnics IV (Poultry Breeding and Hatchery)	2	1	2.5	2

Zootechnics IV (Poultry Breeding and Hatchery)

Practical Course Guide

Week	Name	Number
1.	Biosecurity in Poultry Houses	1
2.	Introduction of Hen Houses	1
3.	Examining the Biological Structure of Hen	1
4.	Introduction of Breed-Hybrid	1
5.	Determination of Egg Quality Parameters	1
6.	Embryo Development	1
7.	Evaluating Incubation Results	1
8.	Hatchery Disinfection	1
9.	Determination of Air Quality in Hen Houses	1
10.	Introduction of Conventional Cage System	1
11.	Examination of the Enriched Cage System	1
12.	Introducing the Free-Range System	1
13.	Calculating Efficiency Criteria in Egg Production Enterprises	1
14.	Evaluation of Production in Broiler Chicken Breeding Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET203	Zootechnics V (Equine, Pet and Pig Breeding)	2	1	2.5	2

Zootechnics V (Equine, Pet and Pig Breeding)
Practical Course Guide

Week	Name	Number
1.	Introduction of Stable	1
2.	Introduction of Box	1
3.	Introduction of Paddock	1
4.	Introduction of Materials Used in Horses	1
5.	Horse Identification	1
6.	Introduction of Horse Breeds	1
7.	Evaluation of Behavior in Horses	1
8.	Evaluation of Bedding, Feeders and Drinkers Used on Horses	1
9.	Introduction of Pig Shelters	1
10.	Identifying Pig Breeds	1
11.	Promotion of Dog Shelters	1
12.	Identifying Dog Breeds	1
13.	Promotion of Cat Shelters	1
14.	Identifying Cat Breeds Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET203	Feed Science	2	2	3	4

Feed Science
Practical Course Guide

Week	Name	Number
1.	-	-
2.	Introduction of feeds and exhibition of roughage, pasture, and meadow feed	1
3.	Exhibition of silage feeds	1
4.	Exhibition of filler-rich feeds	1
5.	Exhibition of concentrated feeds	1
6.	Exhibition of concentrated feeds	1
7.	Feed sampling methods and laboratory sample preparation	1
8.	Physical examination of feed	1
9.	Determination of silage quality and calculation of Flieg score	1
10.	Dry matter analysis in feeds	1
11.	Performing/demonstrating ash analysis and other Weende analysis methods in feeds	1
12.	ADF analysis in feeds	1
13.	NDF analysis in feeds	1
14.	Calculating the energy of feeds according to animal type Compensation and general repetition	1

IV. SEMESTER

Course Code	Course Name	T	P	C	ECTS
VET204	Physiology II	3	2	4	6

Physiology II Practical Course Guide

Week	Name	Number
1.	Creation and inhibition of nerve impulses (Interactive)	1
2.	Measuring nerve conduction velocities (Interactive)	1
3.	Demonstration of conduction in nerve fibers in frog neuromuscular preparation (Interactive)	1
4.	Neurophysiological evaluation in dogs (Interactive)	1
5.	Enumeration of Romanian protozoa (Interactive)	1
6.	Examining the effect of acetylcholine, adrenaline and atropine on bowel movements (Interactive)	1
7.	Physical and chemical properties of rumen fluid (Examination of color, consistency, sedimentation, flotation and pH values) (Interactive)	1
8.	Spirometer, lung volume and capacities (Interactive)	1
9.	Printing respiratory movements (Interactive)	1
10.	Acid-base balance (Interactive)	1
11.	Cardiovascular Physiology (Interactive)	1
12.	Printing the carotid pulse (Interactive)	1
13.	Arterial blood pressure (Interactive)	1
14.	Electrocardiography (Interactive) Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET210	Animal Nutrition and Nutritional Diseases	3	2	4	4

Animal Nutrition and Nutritional Diseases
Practical Course Guide

Week	Name	Number
1.	Determining the nutritional composition of feeds	1
2.	Determining the nutritional composition of feeds	1
3.	Explaining feeds commonly used in animal nutrition	1
4.	Explaining feeds commonly used in animal nutrition	1
5.	Explaining feeds commonly used in animal nutrition	1
6.	Explaining feeds commonly used in animal nutrition	1
7.	Preparation of beef cattle ration	1
8.	Preparation of dairy cattle ration	1
9.	Preparation of dairy cattle ration	1
10.	Preparation of sheep ration	1
11.	Preparation of broiler ration	1
12.	Preparation of laying hen ration	1
13.	Preparation of horse ration	1
14.	Preparation of cat and dog ration. Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET212	General Parasitology	2	2	3	2

**General Parasitology
Practical Course Guide**

Week	Name	Number
1.	Laboratory usage, Biosafety	1
2.	Parasitological examination of live animals	1
3.	Parasitological examination of animals that have died	1
4.	Faecal examination (sample collection and storage, preservative solutions)	1
5.	Faecal examination (macroscopic examination, flotation)	1
6.	Faecal examination (McMaster method)	1
7.	Faecal examination (sedimentation)	1
8.	Faecal examination (Baermann-Wetzell, Vajda and Teleman method)	1
9.	Faecal examination (staining of faecal samples)	1
10.	Blood examination (thin and thick smear preparation and staining)	1
11.	Blood examination (blood cells)	1
12.	Ectoparasitic examination (skin scraping)	1
13.	Ectoparasitic examination	1
14.	Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET214	General Virology	2	2	3	4

General Virology
Practical Course Guide

Week	Name	Number
1.	Laboratory biosafety rules	1
2.	Introduction of virology laboratories	1
3.	Basic laboratory rules	1
4.	Sterilization methods	1
5.	Processing of clinical samples	1
6.	Neutralization test	1
7.	Hemagglutination test	1
8.	Basic cell culture applications	1
9.	Virus cultivation applications in embryonic chicken eggs	1
10.	Laboratory animal practices	1
11.	Rapid tests	1
12.	Serological test methods-ELISA	1
13.	Serological test methods-IFA	1
14.	Molecular test methods-PCR Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET216	Basic Microbiology	2	2	3	3

**Basic Microbiology
Practical Course Guide**

Week	Name	Number
1	Introduction of microbiology laboratories and equipment used in laboratories	1
2	Terms used in microbiology	1
3	Sterilization methods	1
4	Cultivation of microorganisms	1
5	Laboratory diagnosis of infectious agents	1
6	Preparation of slides for microscopic examination	1
7	Simple staining	1
8	Gram staining	1
9	Endospore staining	1
10	Ziehl Neelsen staining	1
11	Fungi staining	1
12	Other staining methods used in microbiology	1
13	Motility test	1
14	Antibiotic susceptibility tests Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET218	General Pathology	2	2	3	4

**General Pathology
Practical Course Guide**

Week	Name	Number
1.	Laboratory rules and laboratory introduction	1
2.	Liqueurdiapedesis preparations	1
3.	Acute inflammatory granulation and Chronic inflammatory granulation explaining and demonstrating	1
4.	foreign body giant cell and Langhans giant cell preparations explaining and demonstrating	1
5.	coagulation necrosis preparations explaining and demonstrating	1
6.	Make-up Week	1
7.	hydropic degeneration and hyaline degeneration preparations explaining and demonstrating	1
8.	amyloidosis and diffuse steatosis preparations explaining and demonstrating	1
9.	Make-up Week	1
10.	Endometrial hyperplasia and squamous metepiasia preparations explaining and demonstrating	1
11.	Passive hyperemia and active hyperemia preparations explaining and demonstrating	1
12.	endometritis tuberculosis and endometrial hyperplasia preparations explaining and demonstrating	1
13.	Bleeding and infarctus preparations explaining and demonstrating	1
14.	Make-up Week	1

V. SEMESTER

Course Code	Course Name	T	P	C	ECTS
VET301	Pharmacology I	2	2	3	4

Pharmacology I Practical Course Guide

Week	Name	Number
1.	Basic laboratory safety procedures and safety symbols	1
2.	Introduction and information on pharmacology laboratory tools and equipment	1
3.	Pharmaceutical forms of drugs	1
4.	Precise weighing, unit conversion, and quantity determination in solutions	1
5.	Prescription writing	1
6.	Dosage calculations for solid drugs	1
7.	Dosage calculations for solutions	1
8.	Dosage calculations for cancer drugs	1
9.	Preparation of CNS (Central Nervous System) drugs - analgesics and analeptics	1
10.	Preparation of CNS drugs - sedatives and sleeping pills, anti-convulsant drugs, psychotropic drugs, and central muscle relaxants	1
11.	Introduction and prescription writing for autonomic nervous system drugs	1
12.	Preparation of ointments	1
13.	Fluid-electrolyte therapy	1
14.	Basic laboratory safety procedures and safety symbols Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET303	Special Pathology I	3	2	4	5

Special Pathology I
Practical Course Guide

Week	Name	Number
1.	Laboratory rules and laboratory introduction	1
2.	Inflammation preparations Explaining and demonstrating	1
3.	Foot and mouth disease and coryza preparations explaining and demonstrating	1
4.	Actinomycosis and Actinobacillosis preparations explaining and demonstrating	1
5.	Paratuberculosis and Parvoviral enteritis preparations explaining and demonstrating	1
6.	make up week	1
7.	Hydropic degeneration and lubrication preparations explaining and demonstrating	1
8.	Cirrhosis and Amyloidosis preparations explaining and demonstrating	1
9.	echinococcal preparations explaining and demonstrating	1
10.	make up week	1
11.	Rabies preparations explaining and demonstrating	1
12.	Listeria and Coenurus cerebralis preparations explaining and demonstrating	1
13.	White muscle preparations explaining and demonstrating	1
14.	Make-up Week	1

Course Code	Course Name	T	P	C	ECTS
VET305	Bacteriology	2	2	3	4

Bacteriology
Practical Course Guide

Week	Name	Number
1.	Basic laboratory rules	1
2.	Detection of Mastitis Pathogens	1
3.	Diagnosis of Strangles	1
4.	Diagnosis of R. equi	1
5.	Diagnosis of Anthrax	1
6.	Tuberculosis Diagnosis	1
7.	Diagnosis of Calf Septicemia and <i>Salmonella</i> Abortusequi and <i>Salmonella</i> Abortusovis Infections	1
8.	Midterm Exam	1
9.	Diagnosis of Brucellosis	1
10.	Diagnosis of Mycoplasma Infections	1
11.	Diagnosis of Leptospirosis	1
12.	Diagnosis of Campylobacteriosis	1
13.	Antibiogram Test	1
14.	Diagnosis of Cutaneous Mycoses Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET307	Special Virology	2	2	3	4

Special Virology
Practical Course Guide

Week	Name	Number
1.	Basic laboratory rules	1
2.	Infectious sample collection	1
3.	Notifiable disease material collection-FMD	1
4.	Processing blood samples for analysis	1
5.	Processing tissue samples for analysis	1
6.	Processing stool and swap samples for analysis	1
7.	Identification of clinical samples, analysis selection criteria	1
8.	Serological and molecular test methods	1
9.	Immunochromatographic test methods	1
10.	Diagnosis of acute infections	1
11.	Diagnosis of Immune tolerance persistent infections-BVDV	1
12.	Diagnosis of slow persistence infections - Retroviruses	1
13.	Diagnosis of latent persistence infections - Herpes viruses	1
14.	Diagnosis of chronic persistence viral infections – FMD Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET203	Arthropodology	2	2	3	4

Arthropodology
Practical Course Guide

Week	Name	Number
1.	Methods of catching and collecting arthropods	1
2.	Oral organelles of arthropods	1
3.	Tick mouth organelles, Male and female Ixodid tick, Larva.	1
4.	Difference between Nymf and Imago. Ixodid ticks with long and short mouth organelles	1
5.	Argasid ticks	1
6.	Scabies species	1
7.	Demodex, Cheyletiella	1
8.	Dermanyssus, Varroa	1
9.	Blattaria, Mallophaga lice.	1
10.	Anoplura lice, Bed bugs	1
11.	Fleas	1
12.	Nematocera	1
13.	Hypoderma and Oestrus larvae, Melophagus and Hippobosca genera	1
14.	Compensation and General Review	1

Course Code	Course Name	T	P	C	ECTS
VET311	Helminthology	2	2	3	4

Helminthology
Practical Course Guide

Week	Name	Number
1.	Laboratory introduction and biosafety criteria	1
2.	Adult trematodes	1
3.	Benedect Sedimentation Method	1
4.	Trematode eggs	1
5.	Adult cestodes	1
6.	Cestod larvae	1
7.	Fulleborn's flotation Method	1
8.	Identification of Cestodes	1
9.	Gastrointestinal pinworms (adult parasites and eggs)	1
10.	BaermanWetzel Method	1
11.	Lung pinworms (adult parasites and larvae)	1
12.	Ascaridis (adult parasites and eggs)	1
13.	Nematode eggs (Flotation and Cellophane tape methodes)	1
14.	Other adult nematodes; Leech, <i>Acanthocephala</i> and <i>Linguatula</i> spp. Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET313	Protozoology	2	2	3	3

Protozoology
Practical Course Guide

Week	Name	Number
1.	Blood examination	1
2.	Blood cells	1
3.	Fecal examination	1
4.	<i>Trypanosoma</i> spp, <i>Leishmania</i> spp	1
5.	<i>Trichomonas</i> spp	1
6.	<i>Giardia</i> spp, <i>Entamoeba</i> spp.	1
7.	Coccidiosis	1
8.	<i>Cryptosporidium</i> spp., <i>Toxoplasma</i> spp.	1
9.	<i>Sarcocystis</i> spp.	1
10.	<i>Hepatozoon</i> spp.	1
11.	<i>Plasmodium</i> spp.	1
12.	<i>Babesia</i> spp.	1
13.	<i>Theileria</i> spp.	1
14.	Compensation and general repetition	1

VI. SEMESTER

Course Code	Course Name	T	P	C	ECTS
VET302	Pharmacology II	3	2	4	6

Pharmacology II Practical Course Guide

Week	Name	Number
1.	Basic laboratory safety procedures and safety symbols - Review	1
2.	Introduction to pharmacology laboratory tools and equipment and information - Review	1
3.	Measurement of drug stability - Preparation of liquid and solid drug formulations	1
4.	Literature review - Discussion of high-impact factor and current articles in the field of pharmacology	1
5.	Literature review - Discussion of high-impact factor and current articles in the field of pharmacology	1
6.	Case discussion of NSAID drugs - Selection of Personal drugs (P-Drug) - Preparation of prescriptions related to the topic	1
7.	Case discussion of CNS drugs - Selection of Personal drugs (P-Drug) - Preparation of prescriptions related to the topic	1
8.	Case discussion of chemotherapeutic drugs - Selection of Personal drugs (P-Drug) - Preparation of prescriptions related to the topic	1
9.	Case discussion of drugs for respiratory diseases - Selection of Personal drugs (P-Drug) - Preparation of prescriptions related to the topic	1
10.	Case discussion of drugs for the digestive and excretory systems - Selection of Personal drugs (P-Drug) - Preparation of prescriptions related to the topic	1
11.	Case discussion of drugs for skin diseases - Selection of Personal drugs (P-Drug) - Preparation of prescriptions related to the topic	1
12.	Case discussions on shock therapy	1
13.	Case discussions on poisoning incidents	1
14.	Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET216	Poultry Disease	2	1	2.5	2

Poultry Disease
Practical Course Guide

Week	Name	Number
1	Laboratory Diagnosis of Viral Pathogens	1
2	Laboratory Diagnosis of Viral Pathogens	1
3	Laboratory Diagnosis of Viral Pathogens	1
4	Laboratory Diagnosis of Viral Pathogens	1
5	Laboratory Diagnosis of Viral Pathogens	1
6	Laboratory Diagnosis of Bacterial Pathogens	1
7	Laboratory Diagnosis of Bacterial Pathogens	1
8	Laboratory Diagnosis of Bacterial Pathogens	1
9	Laboratory Diagnosis of Bacterial Pathogens	1
10	Laboratory Diagnosis of Parasitic Pathogens	1
11	Laboratory Diagnosis of Parasitic Pathogens	1
12	Laboratory Diagnosis of Parasitic Pathogens	1
13	Pathological Examination	1
14	Pathological Examination Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET 308	Beekeeping and Diseases	2	1	2.5	2

Beekeeping and Diseases
Practical Course Guide

Week	Name	Number
1.	Video demonstration introducing the tools and materials used in beekeeping	1
2.	Video presentation introducing the individuals that make up the bee colony and the colony order	1
3.	Video presentation about the work to be done in beekeeping throughout the year	1
4.	Visit to the Honey Processing and Filling facility affiliated with Atatürk University Food and Livestock Application and Research Center	1
5.	Bacteriological sampling for bee diseases	1
6.	Bacteriological culture production for bee diseases	1
7.	Bacteriological culture production for bee diseases	1
8.	With interactive video display, appropriate collection of patient material and sending it to the laboratory, processing of the morbid substance to the laboratory and preparation for analysis.	1
9.	Diagnostic methods are briefly explained through rapid tests, serological tests (ELISA, Neutralization and AGID etc.), virological tests (HA, IF and IP etc.) and molecular tests (PCR etc.) with an interactive video demonstration.	1
10.	Determination of the appropriate test method in acute and chronic infections, differential diagnoses and prevention methods are explained with an interactive video demonstration.	1
11.	Diagnosis, treatment, prevention, and control of <i>Varroa</i>	1
12.	Diagnosis, treatment, prevention and control of honey bee arthropods	1
13.	Diagnosis, treatment, prevention and control of honeybee protozoa	1
14.	Diagnosis, treatment, prevention and control of honey bee helminths Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET 310	Aquaculture and Diseases	2	1	2.5	2

Aquaculture and Diseases

Practical Course Guide

Week	Name	Number
1.	Interactive lesson (Video demonstration about water cycle and water pollution)	1
2.	Interactive lesson (Video demonstration about artificial insemination in trout)	1
3.	Visiting trout and ornamental fish units within the Faculty of Fisheries	1
4.	Interactive lesson (DNA virus diseases video demonstration)	1
5.	Interactive lesson (RNA virus diseases video demonstration)	1
6.	Interactive lesson (Viral vaccines video demonstration)	1
7.	Diagnosis of fish helminths	1
8.	Diagnosis of fish protozoans	1
9.	Diagnosis of fish arthropods	1
10.	Bacteriological Sample Collection and Transport in Fish Diseases	1
11.	Bacteriological Cultivation in Fish Diseases	1
12.	Bacteriological Cultivation in Fish Diseases	1
13.	Fish necropsy and routine tissue follow-up	1
14.	Necropsy evaluation and reporting Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET316	Entrance to the Clinic	1	3	2,5	3

**Entrance to the Clinic
Practical Course Guide**

Week	Name	Number
1.	Clinical Use of Reproductive Hormones in Obstetrics and Gynaecology (Clinical Skills Laboratory)	1
2.	Morphology of Female Reproductive Organs (Clinical Skills Laboratory)	1
3.	Examination of Female Reproductive Organs (Clinical Skills Laboratory)	1
4.	Introduction of Instruments and Equipment Used in Obstetrics and Gynaecology (Clinical Skills Laboratory)	1
5.	Preparation for Gynaecological Operations (Clinical Skills Laboratory)	1
6.	Examination and Treatment of The Patient (Animal Hospital)	1
7.	Examination Methods (Animal Hospital)	1
8.	Examination of Organs and Regions (Animal Hospital)	1
9.	Examination of Lameness (Animal Hospital)	1
10.	Preparation for Surgical Operations (Animal Hospital)	1
11.	Biosafety measures and methods of restraint	1
12.	Taking anamnesis, Use of thermometer and stethoscope	1
13.	Use and interpretation of urine strip and wood lamp	1
14.	Systemic examination Compensation and general repetition	1

VII. SEMESTER

Course Code	Course Name	T	P	C	ECTS
VET407	Food Hygiene and Technology	2	2	3	4

Food Hygiene and Technology Practical Course Guide

Week	Name	Number
1-2	Laboratory introduction and pipetting	2
3-4	Solutions	2
5-6	Dry matter, ash, pH and oil analysis	2
7-8	Honey analysis	2
9-10	Water analysis	2
11-12	Microbiological analysis preparation and cultivation methods	2
13-14	Compensation and general repetition	2

Course Code	Course Name	T	P	C	ECTS
VET415	Necropsy	1	4	3	3

Necropsy
Practical Course Guide

Week	Name	Number
1.	Laboratory rules and introduction of the necropsy room	1
2.	Necropsy was performed on different animal species	1
3.	Necropsy was performed on different animal species	1
4.	Necropsy was performed on different animal species	1
5.	Necropsy was performed on different animal species	1
6.	Necropsy was performed on different animal species	1
7.	Necropsy was performed on different animal species	1
8.	Necropsy was performed on different animal species	1
9.	Necropsy was performed on different animal species	1
10.	Necropsy was performed on different animal species	1
11.	Necropsy was performed on different animal species	1
12.	Necropsy was performed on different animal species	1
13.	Necropsy was performed on different animal species	1
14.	Necropsy was performed on different animal species Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET417	Clinic I	0	8	4	6

Clinic I Course (Andrology and Insemination)

Practical Course Guide

Week	Name	Number
1.	Female reproductive organs anatomy	1
2.	Male reproductive organs anatomy	1
3.	Synchronisation	1
4.	Collecting semen from pets	1
5.	Collecting semen from pets	1
6.	Semen examination	1
7.	Semen examination	1
8.	Semen dilution	1
9.	Semen dilution	1
10.	Preparation for artificial insemination	1
11.	Artificial insemination techniques	1
12.	Progeny testing	1
13.	Infertility	1
14.	Reproduction in poultry Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET417	Clinic I	0	8	4	6

Clinic I (Internal Medicine)
Practical Course Guide

Week	Name	Number
1	Taking Anamnesis	1
2	Taking Body Temperature	1
3-4	Examination of Palpated Lymph Nodules	1
5-6	Lung and Heart Auscultation	1
7	Examination of Visible Mucosa	1
8	Using Zapturapt Methods	1
9-10	Rumen Examination and Auscultation	1
11	Introduction and Use of Ferroscope Device	1
12	Using Wood Lamp	1
13	Use of the Intensive Care Cabinet	1
14	Compensation and general repetition	

Course Code	Course Name	T	P	C	ECTS
VET417	Clinic I	0	8	4	6

Clinic-I (Obstetric and Gynaecology)

Practical Course Guide

Week	Name	Number
1.	Taking Anamnesis and Welcoming the Patient	1
2.	Examination Methods in Obstetrics and Gynecology	1
3.	Clinical Use of Reproductive Hormones	1
4.	Rectal Examination in Cows (Clinical Skills Laboratory)	1
5.	Rectal Examination in Mares (Clinical Skills Laboratory)	1
6.	Obstetrics and Gynecology Tools and Equipment Use (Clinical Skills Laboratory)	1
7.	Ultrasonographic Examination in Farm Animals	1
8.	Ultrasonographic Examination in Pet Animals	1
9.	Determination of Cycle Period in Bovine Ovary Examination (Clinical Skills Laboratory)	1
10.	Determination of Cycle Period in Mare Ovary Examination (Clinical Skills Laboratory)	1
11.	Use of CMT as subclinical mastitis diagnostic method	1
12.	Intracervical Intervention in Slaughterhouse Material	1
13.	Birth in Cow Model Presentation-Position-Posture (Clinical Skills Laboratory)	1
14.	Compensation and General Repetition	1

Course Code	Course Name	T	P	C	ECTS
VET417	Clinic I	0	8	4	6

Clinic I Surgery
Practical Course Guide

Week	Name	Number
1.	Patient Examination	1
2.	Hemostasis Methods	1
3.	Radiological Imaging Techniques	1
4.	Ultrasonographic Imaging	1
5.	Operation Preparation, Asepsis and Antisepsis	1
6.	Anesthesia follow-up	1
7.	Postoperative Management	1
8.	Suture Types	1
9.	Dressing	1
10.	Bandage	1
11.	Post-Operative Wound Care	1
12.	Suturing and Suture Removal Techniques	1
13.	Ear Examination	1
14.	Preoperative and Postoperative Analgesia Compensation and general repetition	1

VIII. SEMESTER

Course Code	Course Name	T	P	C	ECTS
VET418	Clinic II	0	6	3	4

Clinic II (Surgery) Practical Course Guide

Week	Name	Number
1.	Performing orthopedic examinations in dogs and cats	1
2.	Catheterization of the urinary bladder and examination of the prostate in dogs and cats	1
3.	Preanesthetic monitoring and complications, anesthesia in animals at risk	1
4.	Rectal palpation and ultrasonographic examination in female farm animals	1
5.	Breast and milk examination in female farm animals	1
6.	Ultrasound examination in pet animals	1
7.	Systemic examination of pets and farm animals in terms of internal medicine (taking anamnesis, examination of body temperature, palpable lymph nodes and visible mucosa, auscultation of the lungs, heart and intestines)	1
8.	Taking samples for routine laboratory examinations, evaluating the clinical meaning of laboratory findings in pet and farm animals	1
9.	Case discussion	1
10.	Internal genital organ examination, andrological examination (Bull, stallion, ram, billy goat)	1
11.	Preparation of artificial vagina and collection of semen (Bull, stallion, ram, goat)	1
12.	Macroscopic and microscopic examination of sperm, rectal examination and artificial insemination application (Bull, stallion, ram, goat)	1
13.	Necropsy techniques and sample taking	1
14.	Macroscopic diagnosis and reporting Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET408	Meat Inspection	2	2	3	3

Meat Inspection
Practical Course Guide

Week	Name	Number
1-2	Ante mortem examination	2
3-4	Post mortem examination	2
5-6	Fattening status and age determination in butcher animals	2
7-8	Blood, skin and head examination	2
9-10	Examination of internal organs	2
11-12	Examination of carcass and trunk lymph nodes	2
13-14	Compensation and General Review	2

IX. SEMESTER

Course Code	Course Name	T	P	C	ECTS
VET519	Clinic III - Internal Medicine	0	8	4	6

Clinic III (Internal Medicine)

Practical Course Guide

Week	Name	Number
1.	Systemic Examination (Pet/Ruminant)	1
2.	Monitoring patient prognosis (Pet/Ruminant)	1
3.	IV catheter application (Pet/Ruminant)	1
4.	Taking a blood sample (Pet/Ruminant)	1
5.	Injection Application (Pet/Ruminant)	1
6.	Radiography Interpretation (Pet)	1
7.	Use of Ultrasonography (Pet)	1
8.	Using Wood Lamp (Pet)	1
9-10	Swap Sample Collection (Pet/Ruminant)	1
11-12	Nebulization Application (Pet/Ruminant)	1
13-14	Poultry and/or Exotic Animal Inspection Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET519/A-B	Clinic III - Surgery	0	8	4	6

Clinic III (Surgery)
Practical Course Guide

Week	Name	Number
1.	Patient Examination (Pet/Ruminant)	1
2.	Hemostasis Methods (Pet)	1
3.	Radiological Imaging Techniques (Pet/Ruminant)	1
4.	Ultrasonographic Imaging (Pet)	1
5.	Operation Preparation, Asepsis and Antisepsis (Pet/Ruminant)	1
6.	Poultry Animal Examination (Poultry)	1
7.	Eye and Mouth Examination (Pet)	1
8.	Suture Types (Pet/Ruminant)	1
9.	Dressing and Bandage (Pet/Ruminant)	1
10.	Post-Operative Wound Care (Pet/Ruminant)	1
11.	Anesthesia follow-up (Pet/Ruminant)	1
12.	Postoperative Management (Pet/Ruminant)	1
13.	Bovine and Equine Foot Examination (Ruminant/ Equidae)	1
14.	Ear Examination (Pet) Compensation and general repetition	1

Course Code	Course Name	T	P	C	ECTS
VET519	Clinic III - Obstetrics and Gynecology	0	8	4	6

Clinic III (Obstetrics and Gynecology)

Practical Course Guide

Week	Name	Number
1.	Taking Anamnesis and Welcoming the Patient	1
2-3	Rectal Examination in Cows (Clinical Skills Laboratory)	1
4-5	Rectal Examination in Mares (Clinical Skills Laboratory)	1
6-7	Ultrasonographic Examination in Farm Animals	1
8-9	Ultrasonographic Examination in Pet Animals	1
10	Subclinical Using CMT as a Mastitis Diagnosis Method	1
11	Intracervical Intervention in Slaughterhouse Material	1
12	Vaginoscopic Examination	1
13-14	Compensation and General Repetition	1

Course Code	Course Name	T	P	C	ECTS
VET519	Clinic III (Reproduction and Artificial Insemination)	0	8	4	6

Clinic III (Reproduction and Artificial Insemination)
Practical Course Guide

Week	Name	Number
1.	Go over the lesson plan (Pet/Ruminant)	1
2.	Female and male genital organs (Ruminant)	1
3.	Factors affecting fertility (Pet/Ruminant)	1
4.	Andrological examination (Pet/Ruminant)	1
5.	Sperm and its examination (Pet/Ruminant)	1
6.	Nutrition-fertility relationship (Pet/Ruminant)	1
7.	Bull's choice	1
8.	Factors affecting the quality of sperm (Pet/Ruminant)	1
9.	Storage of sperm (Pet/Ruminant)	1
10.	Sexual cycle (Pet/Ruminant)	1
11.	Synchronisation (Ruminant)	1
12.	Artificial insemination equipment (Pet/Ruminant)	1
13.	Determining the appropriate insemination time (Pet/Ruminant)	1
14.	Artificial insemination application (Pet/Ruminant) Compensation and General Repetition	1

Course Code	Course Name	T	P	C	ECTS
VET515	Meat Products and Technology	2	2	3	3

Meat Products and Technology
Practical Course Guide

Week	Name	Number
1-2	Ante mortem examination and slaughter	2
3-4	Post mortem examination and carcass dismemberment	2
5-6	Sausage production	2
7-8	Salami, sausage production	2
9-10	Roasting production	2
11-12	Bacon production	2
13-14	Compensation and General Review	2

Course Code	Course Name	T	P	C	ECTS
VET517	Dairy Products and Technology	2	2	3	4

Dairy Products and Technology
Practical Course Guide

Week	Name	Number
1-2	Determination of pH, acidity, specific gravity, refractive index and fat in milk	2
3-4	Cheese production	2
5-6	pH, acidity, water activity, fat determination and sensory analysis in cheese	2
7-8	Kasar cheese production	2
9-10	Butter production	2
11-12	Yoghurt, ayran production	2
13-14	Compensation and General Review	2

X. SEMESTER

Course Code	Course Name	T	P	C	ECTS
VET 502	Undergraduate Residency Training – Andrology and Artificial Insemination	0	40	20	29

Undergraduate Residency Training - Andrology and Artificial Insemination

Practical Course Guide

Name	Number
Anatomy of genital organs in farm animals	1
Reproductive endocrinology and field applications in farm animals	1
Collection and examination of semen in farm animals	1
Dilution and storage of semen in farm animals	1
Methods for determining the appropriate insemination time in farm animals	1
Artificial insemination application in farm animals	1
Anatomy of genital organs in cats and dogs	1
Reproductive endocrinology and field applications in cats and dogs	1
Collection and examination of semen in cats and dogs	1
Dilution and storage of semen in cats and dogs	1
Methods for determining the appropriate insemination time in cats and dogs	1
Artificial insemination application in cats and dogs	1
Reproduction and artificial insemination in rabbits, rats and mice	1

Course Code	Course Name	T	P	C	ECTS
VET502	Undergraduate Residency Training - Animal Nutrition and Nutritional Diseases	0	40	20	29

Undergraduate Residency Training - Animal Nutrition and Nutritional Diseases
Practical Course Guide

Name	Number
Rations preparation for ruminants, poultry, horses and pet animals (will be explained with examples)	1
Feeder management for ruminants, poultry, horses and pet animals	1

Course Code	Course Name	T	P	C	ECTS
VET502	Undergraduate Residency Training - Biochemistry	0	40	20	29

Undergraduate Residency Training - Biochemistry

Practical Course Guide

Name	Number
Blood biochemistry	1
Urine analysis	1

Course Code	Course Name	T	P	C	ECTS
VET502	Undergraduate Residency Training – Food Hygiene and Technologies	0	40	20	29

Undergraduate Residency Training – Food Hygiene and Technologies
Practical Course Guide

Name	Number
Laboratory introduction, pipetting and solution preparation	1
Microbiological analysis preparation and cultivation methods	1
Aquaculture trout facility visit and fish analysis	1
Meat and Milk Institution visit and meat analysis	1
Platform tests in milk	1
cheese production	1
Yogurt and kefir production and yoghurt analysis	1
Butter, kashar production	1
Cheese analysis	1
Egg and water analysis	1
Protein determination, gram staining and catalase test	1
Sensory examination of foods	1
Microbiological analysis preparation and cultivation methods	1

Course Code	Course Name	T	P	C	ECTS
VET502	Undergraduate Residency Training – Internal Medicine	0	40	20	29

**Undergraduate Residency Training – Internal Medicine
Practical Course Guide**

Name	Number
Taking anamnesis	1
Injection (sc,im,iv)	1
Intravenous catheter application	1
Control of body temperature	1
Systemic examination (Examination of lymph nodes, examination of the respiratory system and heart, abdominal palpation, examination of the skin, etc.)	1
Interpretation of hematological analyzes	1
Interpretation of biochemical analyzes	1
Interpretation of abdominal and thoracic imaging (Abdominal and thoracic radiography, echocardiography, etc.)	1
Creating a prescription for a common disease	1
Patient follow-up (following the patient's process from admission to discharge)	1
Interpretation of urine analysis	1

Course Code	Course Name	T	P	C	ECTS
VET502	Undergraduate Residency Training - Microbiology	0	40	20	29

Undergraduate Residency Training - Microbiology
Practical Course Guide

Name	Number
Sterilization methods	1
Antimicrobial susceptibility test	1
Diagnosis of mycological infections	1

Course Code	Course Name	T	P	C	ECTS
VET502	Undergraduate Residency Training - Obstetrics and Gynecology	0	40	20	29

Undergraduate Residency Training - Obstetrics and Gynecology
Practical Course Guide

Name	Number
Pregnancy examination with ultrasonography in pet animals	1
Pregnancy examination in farm animals with the help of transrectal ultrasonography and rectal examination	1
Udder and milk examination in farm animals	1
Milking techniques, milking machine working principle and milking application	1
Local anesthesia practices in farm animals under academic supervision	1
Participation in gynecological operations in farm animals under academic supervision	1
Local and general anesthesia applications in cats and dogs under academic supervision	1
Participation in gynecological operations in cats and dogs under academic supervision	1

Course Code	Course Name	T	P	C	ECTS
VET502	Undergraduate Residency Training - Parasitology	0	40	20	29

Undergraduate Residency Training - Parasitology
Practical Course Guide

Name	Number
Fecal examination (Flotation method)	1
Fecal examination (Sedimentation method)	1
Thin and thick blood smear and Giemsa staining	1
Ectoparasitic examination (Skin scraping and examination)	1

Course Code	Course Name	T	P	C	ECTS
VET502	Undergraduate Residency Training - Pathology	0	40	20	29

Undergraduate Residency Training - Pathology
Practical Course Guide

Name	Number
Perform necropsy	1
Following and staining tissues after necropsy	1
Necropsy reporting	1

Course Code	Course Name	T	P	C	ECTS
VET502	Undergraduate Residency Training - Pharmacology	0	40	20	29

Undergraduate Residency Training – Pharmacology
Practical Course Guide

Name	Number
Dosage calculations for solid drugs, solutions and cancer drugs	1
Prescription writing	1
Fluid-electrolyte therapy	1
Rational Drug Use	1
Personal Drug calculations (P-Drug)	1

Course Code	Course Name	T	P	C	ECTS
VET502	Undergraduate Residency Training - Physiology	0	40	20	29

**Undergraduate Residency Training – Physiology
Practical Course Guide**

Name	Number
Interpretation of Hemogram	1
Interpretation of ECG	1

Course Code	Course Name	T	P	C	ECTS
VET502	Undergraduate Residency Training - Surgery	0	40	20	29

Undergraduate Residency Training- Surgery
Practical Course Guide

Name	Number
Information on Surgical Operation (Pet/Ruminant)	1
Examination of the Upper Respiratory and Digestive Tract (Pet)	1
Probing of the Esophagus and Trachea (Pet)	1
Examination of the Ear (Pet)	1
Direct and Oscopic Examination with Cleaning of the External Ear Canal (Pet)	1
Urinary Catheterization and Cystocentesis (Pet)	1
Anesthesia Administration and Monitoring (Pet/Ruminant)	1
Laporotomy, Gastrostomy, Rumenotomy, Enterotomy etc. Operations (Pet/Ruminant)	1
Monitoring of Patients During Operation (Pet/Ruminant)	1
Application of Different Wound Treatments, Wound Revision and Dressing Practices (Pet/Ruminant/Equide)	1
Suture and Stapler Application and Removal Techniques (Pet/Ruminant)	1
Preanesthesia, Local and General Anesthesia Applications in Different Species of Animals (Pet/Ruminant/Equide)	1
Contrast Radiographs and Used Substances (Pet)	1
Minor Eye Operations (Pet)	1

Course Code	Course Name	T	P	C	ECTS
VET502	Undergraduate Residency Training- Virology	0	40	20	29

Undergraduate Residency Training- Virology
Practical Course Guide

Name	Number
Interactively, appropriate collection of patient material and sending to the laboratory, processing of whole blood, serum, stool, swap and tissue samples coming to the laboratory and preparation for analysis, virus production/isolation methods (experimental animal and embryonic chicken egg inoculations), use of invert microscope and determining diagnostic methods through cell culture analyses, rapid tests, serological tests (ELISA, Neutralization and AGID etc.), virological tests (HA, IF and IP etc.) and molecular tests (PCR etc.) and the appropriate test method in acute and chronic infections. One-day clinical virology training is given.	1

Course Code	Course Name	T	P	C	ECTS
VET502	Undergraduate Residency Training- Zootechnics	0	40	20	29

Undergraduate Residency Training- Zootechnics

Practical Course Guide

Name	Number
Evaluates sheep pens and produces solutions to possible problems. It performs B.C.S estimation, age estimation and lamb management applications in sheep.	1
Gains information about horse breeding and the status of shelters.	1
Evaluates dairy cattle shelters and produces solutions to possible problems. It performs B.C.S estimation, age estimation, live weight estimation and type scoring applications in cattle.	1
Evaluates dairy cattle enterprises in terms of animal welfare.	1
It determines egg production performance and evaluates factors affecting productivity. Evaluation of production in broiler chickens. Knows the incubation conditions and evaluates the results.	1
Evaluates housing conditions and laboratory standards in rabbit, rat and mouse species.	1