Faculty	Department	Cpurse Code	Name of the Course	Instruction Language	Semester	ECTS	Learning Outcomes	General Information	Requirements / Prerequisites for Students
Veterinary Faculty	Veteriner Hekimlik	VF214	Virology - I	English	4th Semester Spring	3	To provide knowledge of the basic characteristics, replication mechanisms, and propagation methods of viruses; to develop practical skills in cell culture techniques and the assessment of viral infectivity; to teach the principles of virological diagnostic methods and the interpretation of results; and to promote awareness of aseptic techniques, biosafety, and quality control.	The Virology I course covers the structural and biological characteristics, classification, replication mechanisms, and host cell interactions of viruses. The course addresses methods used for virus propagation, basic cell culture techniques, and virus isolation, serological, and molecular methods used in virological diagnosis. Teaching is conducted through theoretical lectures and laboratory practicals. The course aims to help students understand fundamental virological concepts, develop laboratory skills, and relate this knowledge to veterinary medical practice.	To study at the Faculty of Veterinary Medicine
	Veteriner Hekimlik	VF303	Virology - II	English	5th Semester /Fall	3	To provide knowledge of the etiology, epidemiology, pathogenesis, clinical signs, and immunology of viral diseases in horses, cats, dogs, and ruminants; to teach prevention and control strategies for these diseases; and to raise awareness of zoonotic viral infections and their public health significance.	The Virology II course covers the etiology, epidemiology, pathogenesis, clinical signs, and immunology of viral diseases in horses, cats, dogs, and ruminants. The course addresses the diagnosis, prevention, and control of these diseases, as well as zoonotic viral infections and their public health significance. Teaching is conducted through theoretical lectures and illustrative case examples. The course aims to help students recognize viral diseases, develop a differential diagnostic approach, and relate this knowledge to veterinary medical practice.	Students must have taken Virology I and fulfilled its attendance requirement.
	Veteriner Hekimlik	VF303	Virology - II	English	5th Semster/Fall	3	To provide knowledge of the etiology, epidemiology, pathogenesis, clinical signs, and immunology of viral diseases in horses, cats, dogs, and ruminants; to teach prevention and control strategies for these diseases; and to raise awareness of zoonotic viral infections and their public health significance.	The Virology II course covers the etiology, epidemiology, pathogenesis, clinical signs, and immunology of viral diseases in horses, cats, dogs, and ruminants. The course addresses the diagnosis, prevention, and control of these diseases, as well as zoonotic viral infections and their public health significance. Teaching is conducted through theoretical lectures and illustrative case examples. The course aims to help students recognize viral diseases, develop a differential diagnostic approach, and relate this knowledge to veterinary medical practice.	Students must have taken Virology I and fulfilled its attendance requirement.
	Veteriner Fakültesi / Biyokimya Anabilim Dalı	VTF213	Biochemistry	Turkish	2nd grade Fall	3	It describes the structure of biomolecules and metabolic processes.	The course consists of 3 hours of theoretical lectures per week in a lecture hall, and 2 hours of practical work in the biochemistry student laboratory.	none
		elective	Biotechnology	English	2nd grade Fall Elective	1	Understanding the intracellular formation mechanism of hereditary events. Understanding, learning, and applicability of biotechnological applications. Adapting and applying the acquired knowledge to the field of veterinary medicine.	Teaching gene analysis techniques and their related applications. Providing laboratory knowledge and skills through the teaching of biotechnological methods, thereby offering the advantage of working in a laboratory by utilizing this knowledge in the future.	Having taken and passed foundational courses in lower years related to Medical Biology and molecular genetics or Biotechnology.
		elective	Fish Biology	English	3rd year, 1st semester elective	1	To provide students with the necessary education on fish biology prior to the aquaculture (fisheries) course, ensuring that as a veterinarian, they recognize fish species and have knowledge regarding the biological characteristics of fish. "By learning the classification, morphological differentiation, and systemic biology of fish, they will utilize this knowledge in the relevant field of the veterinary medicine profession. Furthermore, by combining this knowledge with what they learn in the aquaculture (fisheries) course, they will be able to address fish biology and aquaculture as a whole."	It aims to inform and educate about the structure of tissues and organs related to fish biology, and to enable students to recognize and learn the structures and functions of intracellular organelles, understand vital processes within the cell, and learn how a healthy life is sustained at the cellular level.	Having taken and passed foundational courses in lower years related to Medical Biology and molecular genetics or Biology.
		elective	Biotechnology in Veterinary Science	English	3rd Grade Spring Semester	1	Students will learn about biotechnological developments from the past to the present. Furthermore, they will learn the areas of application of biotechnological advancements in the field of veterinary medicine. They will learn about biotechnological developments in the field of genetics, such as cloning and DNA sequencing, and their utilization in livestock farming and veterinary medicine.	Upon successful completion of this Program, students will be able to:	Having taken and passed foundational courses in lower years related to Medical Biology and molecular genetics or Biotechnology.
	Veterinary Medicine	VF403	Surgery II	English	Year 4, Semester 7	3	On successful completion of this course, students will be able to: 1. Describe the main surgical disorders of the skin, subcutaneous tissues, head, ears, nose and oral cavity in small and large animals. 2. Explain the diagnostic approach and treatment principles for the conditions covered. 3. Describe relevant surgical procedures and recognise potential complications and their management.4. Apply theoretical knowledge to the assessment and management of selected surgical cases.	Theoretical and practical instruction in selected surgical conditions of small and large animals. Topics include skin and subcutaneous tissue disorders; wounds, phlegmon, oedema and tumours of the head; facial and masticatory muscle paralysis; eosinophilic myositis; and cranial and cerebral trauma and associated conditions, including hydrocephalus, cerebral oedema, haemorrhage, contusion and concussion. The course also covers auricular haematoma, wounds, infection, abscesses, cartilage necrosis and ulcers; otitis externa, media and interna; ear canal foreign bodies and tumours; deafness and vestibular dysfunction; epistaxis, nasal tumours and conchal necrosis; and oral foreign bodies, gingivitis, oral tumours, glossitis and tongue paralysis.	To study at the Faculty of Veterinary Medicine
	Veterinary Medicine	VF410	Foot Diseases	Ingilizce	Year 4, Semester 8	2	On successful completion of this course, students will be able to: 1. Describe the anatomy of the equine foot and recognise the foot disorders covered. 2. Explain the diagnostic approach to foot disease and associated lameness.	Theoretical and practical instruction in veterinary podiatry and foot care, with emphasis on the equine foot. Topics include foot anatomy; disorders of the coronary region; inflammation of the distal interphalangeal joint and navicular apparatus; distal phalanx fractures; disorders of the hoof corium; acute and chronic laminitis; penetrating injuries, interference injuries, constricted hooves, heel bruising and other hoof trauma; hoof deformities;	To study at the Faculty of Veterinary Medicine

							3. Describe principles of foot care, treatment and relevant surgical procedures. 4. Explain the implications of lameness for animal welfare and economic performance.	constricted hooves), heel bruising and other hoof trauma), hoof deformities), frostbite and burns; necrosis and ossification of the ungual cartilages and related surgical procedures; canker, thrush and keratoma. Lameness is considered in relation to animal welfare, economic impact and treatment.	
	Veterinarian (Biostatistics Department)	VF209	Biostatistics	Turkish (programme language; course-specific language to be confirmed)	2nd Year / Fall Semester (3rd Semester)	2	Upon successful completion of this course, students will be able to: 1. Describe the main stages of scientific research and the role of biostatistics in veterinary medicine. 2. Define fundamental statistical concepts, formulate hypotheses and distinguish common types of statistical error. 3. Describe sampling methods and explain basic principles of sample size determination. 4. Calculate and interpret common descriptive measures, including means, medians and standard deviations. 5. Explain and interpret introductory correlation, regression and chi-square analyses. 6. Interpret basic statistical findings in scientific publications and apply introductory statistical software procedures.	The course consists of one hour of theoretical instruction and one hour of practical work per week, as specified in the 2025 curriculum. It introduces fundamental concepts and methods of biostatistics in veterinary medicine, including the research process, hypothesis formulation, sampling and sample size, descriptive statistics, correlation, regression and chi-square analysis. Practical work may involve interpretation of published studies and introductory statistical software exercises.	Course-specific prerequisites were not available in the accessible Bologna information; to be confirmed by the department.
	Anatomi	VF216	Clinical Anatomy	İngilizce	2026-2027 Bahar	2	To be able to use the anatomical position, directions, planes (planum), and regional (regio) terms of the body accurately and in a clinical context. To be able to explain the normal structural features of the organ systems constituting the body (locomotor, circulatory, respiratory, digestive, urogenital, and nervous systems) at the macroscopic level.	To be able to explain the normal structural features of the organ systems constituting the body (locomotor, circulatory, respiratory, digestive, urogenital, and nervous systems) at the macroscopic level.	-
	Veterinary Program	VF422	Veterinary Ethics	English	2025-2026 Spring Semester	1	Students will understand the fundamental principles of veterinary ethics and legislation, identify ethical dilemmas, and apply ethical decision-making approaches to veterinary practice.	Lectures, case studies, group discussions, and student presentations.	No prerequisites required. Active participation is expected.
	Department of Obstetrics and Gynecology		*Obstetrics and Gynaecology I*	*İngilizce*	*Fall*	*2*	*Knows the female anatomy, reproductive physiology and endocrinology, reproductive tract examination methods, pregnancy period, and pathologies of pregnancy in domestic animals.*	*The course is taught theoretically.*	No prerequisites required. Active participation is expected.
	Department of Obstetrics and Gynecology		*Udder Health and Diseases*	*İngilizce*	*Fall*	*1*	*Knows the udder and teat anatomy, lactation and milk synthesis physiology, defence mechanism of udder and teat, milking routines, mastitis, mastitis control programs, udder and teat skin diseases, and udder and teat surgery in domestic animals.*	*The course is taught theoretically.*	No prerequisites required. Active participation is expected.
	Department of Obstetrics and Gynecology		*Obstetrics and Gynaecology II*	*İngilizce*	*Spring*	*3*	*Knows the physiology and pathologies of parturition and postpartum period, metabolic diseases, infertility, and gynaecological surgeries in domestic animals.*	*The course is taught theoretically.*	No prerequisites required. Active participation is expected.
	Department of Obstetrics and Gynecology		*Assisted Reproductive Techniques and Cryobiology (Elective Course)*	*İngilizce*	*Fall*	*2*	*Knows the physiology of oocyte and embryo development, in vitro fertilization, in vivo and in vitro embryo production processes, embryo transfer, and gamete and ovarian tissue cryopreservation principles in domestic animals.*	*The course is taught theoretically.*	No prerequisites required. Active participation is expected.
	Department of Obstetrics and Gynecology		*Gynaecological Surgery in Exotic Animals (Elective Course)*	*İngilizce*	*Spring*	*2*	*Knows the pathologies of the reproductive system, diagnosis and treatment of reproductive tract diseases, and surgery of reproductive organs in exotic animals.*	*The course is taught theoretically.*	No prerequisites required. Active participation is expected.
	Veterinary	VF305	Pharmacology - I	İngilizce	5th semester, Fall	3	To learn about the sources, effects and properties of vitamins, minerals and chemotherapeutic drugs. Learning about the changes that drugs undergo in the body (biotransformation). To learn about the concepts of pharmacokinetics and pharmacodynamics. To learn about the undesirable and toxic effects of medicines	The Pharmacology-I course covers the fundamental principles of pharmacology, including the sources and physicochemical properties of drugs, mechanisms of drug action, pharmacokinetics, pharmacodynamics, and adverse and toxic effects of drugs. The course addresses routes of drug administration, absorption, distribution, metabolism and excretion, receptors and drug–response relationships, dose–response relationships, drug interactions, and the basic principles of safe drug use. Teaching is conducted through theoretical lectures and illustrative case examples, aiming to help students understand fundamental pharmacological concepts and relate this knowledge to veterinary medical practice.	To study at the Faculty of Veterinary Medicine
	Veterinary	VF306	Pharmacology - II	İngilizce	6th Semester, Spring	3	To learn about the use and dosages of chemotherapeutic drugs. To learn about the drugs used in diseases of the digestive system. To learn about the drugs used in diseases of the respiratory system. To learn about the pharmacology of the endocrine system.	The Pharmacology-II course covers the therapeutic uses, mechanisms of action, and dosages of chemotherapeutic drugs, as well as drugs used in the treatment of digestive and respiratory system diseases and agents acting on the endocrine system. The course addresses the fundamental properties of antimicrobial and other chemotherapeutic agents, rational drug use, the mechanisms of action and therapeutic applications of drugs used in digestive and respiratory disorders, and the pharmacological properties of hormones and drugs affecting the endocrine system. Through theoretical lectures and clinical examples, students are expected to develop an understanding of appropriate drug selection, dosage regimens, and therapeutic principles and to relate this knowledge to veterinary medical practice.	To study at the Faculty of Veterinary Medicine

	Veterinary	VF420	Toxicology	Ingilizce	7th Semester, Fall	2	Explain the fundamental concepts and scope of veterinary toxicology, as well as its importance in terms of animal health. Identify and classify plant-derived, chemical, microbial and environmental toxicants that cause poisoning in animals. Explain the processes of absorption, distribution, metabolism and excretion of toxic substances in animals. Assess the mechanisms of toxic effects and species-specific differences in susceptibility to toxic substances. Interpret the clinical signs and pathological findings associated with acute and chronic poisoning in animals. Explain the fundamental principles of sample collection, storage and toxicological analysis methods used in veterinary toxicology. Describe the fundamental approaches to the diagnosis, treatment and prevention of poisoning in animals. Assess the risks posed by toxic substances originating from feed, water and the environment to animal health and food safety.	The Toxicology course covers the fundamental concepts of veterinary toxicology, the sources and classification of toxic substances, toxicokinetic and toxicodynamic properties, factors affecting toxicity, and species-specific differences in susceptibility to toxicants. The course addresses plant-derived, chemical, microbial, and environmental toxicants; acute and chronic poisoning in animals; clinical and pathological findings associated with intoxication; toxicological analysis methods; and the basic principles of the diagnosis, treatment, and prevention of poisoning. The relationship between feed- and waterborne toxicants and animal-derived food safety is also discussed. Teaching is conducted through theoretical lectures and clinical case examples, aiming to develop students' abilities to evaluate toxicological incidents and apply their knowledge to veterinary medical practice.	To study at the Faculty of Veterinary Medicine
	Veterinary	VTF206	FEED HYGIENE AND TECHNOLOGY	TURKISH	4. SEMESTER	3	Classifying and recognizing the feed used in animal nutrition To have information about the contents and general characteristics of feeds Having knowledge about feed hygiene and processing methods To have knowledge about the use of feed raw materials in the nutrition of different animals. To have information about nutrient analysis in feeds	This course is given knowledge about roughage and their technologies.	
	Veterinary Medicine	VTF307	ANIMAL NUTRITION AND NUTRITION DISEASES	TURKISH	5. SEMESTER	3	To make scientific evaluation that Introduction to nutrients, water its metabolism, To make scientific evaluation that Carbohydrate its metabolism- Lipids its Metabolism , Vitamins its Metabolism To make scientific evaluation that proteins its metabolism, minerals its metabolism To make scientific evaluation that Introduction to Nutrition of Ruminants Calfs To make scientific evaluation that Energy energy systems, digestibility of feedstuffs, feed evaluation systems To make scientific evaluation that nutrition of beef cattles To make scientific evaluation that Poultry Nutrition To make scientific evaluation that dairy cattle nutrition To make scientific evaluation that turkey nutrition, quail Nutrition, goose nutrition, geese nutrition To make scientific evaluation that dairy cattle nutrition sheep nutrition To make scientific evaluation that nutrition of sheeps goats To make scientific evaluation that exotic birds nutrition To make scientific evaluation that nutritional diseases of avians To make scientific evaluation that Horse Nutrition-Water Buffalo Nutrition To make scientific evaluation that fish nutrition ostrich Nutrition	This course is given knowledge of the introduction digestive systems, nutrients nutrition of the farm animals.	To register this course students should achieve the Feed Hygiene and Technology course
	Veterinary Medicine	VF201	Physiology I	English	3rd Semester Fall	3	Understands the fundamental principles of physiology, homeostasis, and cellular transport mechanisms. Comprehends the structure, function, and physiological control of the blood, cardiovascular, respiratory, and autonomic nervous systems in domestic animals. Acquires basic laboratory skills related to physiological measurements and diagnostic assays.	Face-to-face; lectures (theory) and laboratory applications (practice).	None
	Veterinary Medicine	VF202	Physiology II	English	4th Semester Spring	3	Explains the physiological mechanisms of the digestive, renal, endocrine, reproductive, and neuromuscular systems in domestic animals. Evaluates organ system interactions and their roles in maintaining systemic homeostasis. Applies practical laboratory techniques to analyze metabolic and physiological parameters.	Face-to-face; lectures (theory) and laboratory applications (practice).	Successful completion of Physiology I
	Preclinical Sciences	VF205	Immunology and Serology	Turkish	3rd Semester Fall	2	Learning the basic concepts of immunology Learning the antigen and antibody Learning the cells of immune system Learning the organs of immune system Learning the humoral immunity Learning the cellular immunity Learning the immunity against microorganisms	Theoretical and Practice	-
	Preclinical Sciences		Epidemiology	Turkish	3rd Semester Fall	1	Scope of epidemiology General concepts in epidemiology Disease criteria Disease determinants Transmission of infections Ecology of diseases Serological epidemiology Control and eradication of diseases	Theoretical	-
	Preclinical Sciences	VF204	Microbiology I	Turkish	4th Semester Spring	3	Learning basic information about bacteria Learning the macroscopic and microscopic morphologies of bacteria Learning the anatomical structure of bacteria Learning about bacterial growth	Theoretical and Practice	-

							Learning about antibiotics and antibiotic resistance mechanisms		
							Learning bacterial genetics		
							Learning about bacterial virulence factors and infection mechanisms		
	Preclinical Sciences	VF301	Microbiology II	Turkish	5th Semester Fall	3	Learning about Gram-positive coc infections	Theoretical and Practice	-
							Learning about Gram-positive rod infections		
							Learning about Gram-negative rod infections		
							Learning about zoonotic infections		
							Learning about biological warfare agents		
							Learning about notifiable infections		
	Faculty of Veterinary Medicine / Biochemistry Department	VTF213	Biochemistry	Turkish/English	2nd Grade/ Fall	3	1. It describes the structure of biomolecules and their metabolic processes.	The course consists of 3 hours of theoretical instruction per week in the lecture hall, and 2 hours of practical work in the Biochemistry Student Laboratory.	NA-
							2. Understands biochemical blood and tissue analyses.		
							3. Explains cellular energy mechanisms.		
	Veterinary Medicine		Animal Breeding	English	2026-2027/ Fall Semester		Upon successful completion of the course, students will be able to:	The Animal Breeding course is a fundamental course covering the species and breed characteristics, breeding systems, housing conditions, nutritional and care requirements, reproductive processes, animal breeding and genetic improvement, and herd management of farm animals, primarily cattle and small ruminants, as well as pigs, poultry, and horses. The course consists of two hours of theoretical instruction and two hours of practical training per week. Theoretical sessions provide students with fundamental concepts and principles of Animal Breeding, along with basic knowledge of the major farm animal species. Practical sessions adopt a research-based learning approach to help students translate their theoretical knowledge into practical skills, gain hands-on experience in animal husbandry practices, and develop their professional competencies.	1.Basic knowledge of the physiology, anatomy, genetics, and behavior of farm animals.
							1.Explain the fundamental concepts and principles of animal breeding.		2.Have a fundamental understanding of the nutrition and reproductive processes of farm animals.
							2.Identify farm animal species and breeds and describe their main characteristics, and apply appropriate animal breeding practices.		3.Have a basic scientific understanding of the principles of sustainable farm animal health management.
							3.Compare animal production systems and perform basic practices related to housing design, environmental condition management, and the use of animal housing equipment.		4.Demonstrate the ability to analyse theoretical knowledge, conduct observations, and participate in practical activities.
							4.Determine and implement feeding, watering, and care practices appropriate to the species, age, and physiological status of animals.		5.Comply with occupational health and safety, hygiene, and biosecurity rules when working with animals.
							5.Evaluate the principles of animal health, hygiene, biosecurity, and animal welfare, and implement relevant preventive measures.		6.Adopt and apply the principles of animal welfare.
							6.Demonstrate knowledge of basic practices related to reproduction, parturition, and offspring care, and develop management and planning strategies to address potential problems.		
							7.Apply record-keeping methods in animal breeding and interpret data related to herd management.		
							8.Analyze the factors affecting livestock productivity, evaluate appropriate breeding and genetic improvement practices to enhance productivity, and transfer acquired theoretical knowledge into practice.		
	Veterinary Medicine	VF202	Physiology II	English	Fourth semester, Spring Term	3	Explains the physiological mechanisms of the digestive, renal, endocrine, reproductive, and neuromuscular systems in domestic animals. Evaluates organ system interactions and their roles in maintaining systemic homeostasis. Applies practical laboratory techniques to analyze metabolic and physiological parameters.	Face-to-face; lectures (theory) and laboratory applications (practice).	Successful completion of Physiology I
	Veterinerlik / Dölerme ve Suni Tohumlama (Veterinary Medicine / Reproduction and Artificial Insemination)	VTF404	Artificial Insemination	Türkçe (Turkish)	2026-2027 Spring (8th Semester) (Spring Semester)	3	• Genital tract examination in female and male • Methods of semen collection • Biochemical structure of sperm and learning of examination • Semen extended and short and long term storage of semen • Case of infertility in male animal • Estrous symptoms in female and the best suitable insemination time	Course Delivery: Face-to-face theoretical lectures and practical laboratory/field applications. Course Content / Weekly Topics: • Reproductive Endocrinology • Gonadotrophic Hormones • Gonadal and Placental Hormones • Estrous Cycle • Reproductive Anatomy • Female Genital System and Functions • Male Genital System and Functions • Midterm Examination and General Review • Puberty, Sexual Cycles and Sexual Cycle's Periods Gametogenesis-Oogenesis • Fertility and Main Factors Effecting Fertility	Ön koşul bulunmamaktadır. Teorik derslere %70, uygulamalara %80 devam zorunluluğu vardır. (No prerequisites. 70% attendance for lectures and 80% for practicals is mandatory.)
	PathologyI	VF309	English	2025/Fall	3		provides information on the cell, inflammation, degeneration, necrosis, and immunopathology	It is a course consisting of both theory and practice. Theoretical instruction is delivered using slides, while practical training involves the use of specimens (preparations).	
	PathologyII	VF310	English	2025/Spring	3		It is a course consisting of both theory and practice. Theoretical instruction is delivered using slides, while practical training involves the use of specimens (preparations).	Acquires knowledge about the digestive, respiratory, urinary, cardiovascular system	
	PathologyIII	VF415	English	2025/Fall	3		Acquires knowledge about the skin, muscular system, nervous system, hematopoietic system, and genital system.	It is a course consisting of both theory and practice. Theoretical instruction is delivered using slides, while practical training involves the use of specimens (preparations).	

	Pathology(necropsy)	VF418	English	2025/Spring	2		It provides information on necropsy methods according to animal species, as well as on death certificates.	When a necropsy is performed, the work is carried out on the animal itself; at other times, it is conducted theoretically.	
		Optional	Molecular Biology Tecniques	English	2.class 1.st term	1	"To equip veterinarians graduating from the Faculty of Veterinary Medicine, as well as researchers and scientists, with the ability to utilize molecular biology techniques in their diagnostic, therapeutic, and research endeavors."	Teaching gene analysis techniques and their related applications. Providing laboratory knowledge and skills through instruction in biotechnological methods, thereby equipping students with the ability to work in a laboratory setting by utilizing this knowledge in their future professional practice.	They have taken courses at lower levels that can serve as a foundation for medical biology, molecular genetics, or biotechnology.
							Understanding and learning biotechnological applications and their feasibility;	"For veterinary medicine students, these techniques can be employed for diagnostic, identification, or research purposes in the course of their professional practice."	
							Adapting and applying the acquired knowledge within the field of veterinary medicine.	By learning molecular biology techniques, they will discover how and when to utilize them. In this context, they will learn protein- and genetics-based molecular biology methods and be able to apply them.	
		Optional	Fish Biology	English	3. class 1.st term seçmeli	1	To provide students with the necessary training on fish biology prior to the aquaculture course, and to ensure that they—as future veterinarians—are able to identify fish species and possess knowledge regarding their biological characteristics.	To inform and educate about the structure of tissues and organs related to fish biology, to recognize and learn the structures and functions of intracellular organelles; understanding vital events in the cell; The aim is to learn how a healthy life occurs at the cellular level.	They have taken courses at lower levels that can serve as a foundation for medical biology, molecular genetics, or biotechnology.
							" By learning about the classification, morphological differentiation, and systematic biology of fish, they will be able to apply this knowledge within the relevant field of veterinary medicine. Furthermore, by integrating this information with what they have learned in their aquaculture courses, they will be able to approach fish biology and aquaculture as a cohesive whole.		
		Optional	Biotechnology in Veterinary Science	English	3. class 2. nd term	1	Students will learn about biotechnological developments from the past to the present. Furthermore, they will explore the applications of these developments within the field of veterinary medicine. They will also study biotechnological advancements in genetics—such as cloning and DNA sequencing—and their implementation in animal husbandry and veterinary medicine.	Upon successful completion of this program, students will be able to:Understand biotechnological developments from the past to the present.	They have taken courses at lower levels that can serve as a foundation for medical biology, molecular genetics, or biotechnology.
	Anatomy	VF216	Clinical Anatomy	English	2026–2027 Spring	2	Use the anatomical position, directions, planes (planum), and regional (regio) terms of the body accurately and in a clinical context.	Explain the normal macroscopic structural features of the body's organ systems (musculoskeletal, circulatory, respiratory, digestive, urogenital, and nervous systems).	—
							Explain the normal macroscopic structural features of the body's organ systems (musculoskeletal, circulatory, respiratory, digestive, urogenital, and nervous systems).		
	Veterinary Medicine	VF 308	Internal Medicine I	English	6th Semester	2 Akts	Students will be able to explain the etiology, pathogenesis, clinical signs, diagnostic methods, treatment, and prevention of internal diseases in horses, sheep, and goats. They will be able to perform clinical examinations, interpret laboratory findings, and establish differential diagnoses.	The course covers internal diseases of horses, sheep, and goats, including clinical examination, diagnostic methods, treatment, and prevention. Teaching methods include theoretical lectures, clinical case discussions, and practical applications where applicable.	—
	Veterinary Medicine	VF 408	Internal Medicine III	English	7th Semester	3 Akts	Students will be able to identify common internal diseases in cats and dogs and explain their etiology, clinical manifestations, diagnostic approaches, and treatment options. They will be able to interpret laboratory and diagnostic imaging findings and develop appropriate treatment and monitoring plans.	The course focuses on internal diseases of cats and dogs, including cardiovascular, respiratory, gastrointestinal, urinary, endocrine, and metabolic disorders. Teaching methods include theoretical lectures, clinical case discussions, and practical applications.	—
	Veterinary Medicine	*	Clinical Practice I	English	6th Semester	3 Akts	Students will be able to perform basic clinical examinations under supervision, obtain patient histories, recognize common clinical abnormalities, and apply animal welfare, biosafety, and professional ethics principles.	The course provides practical training in veterinary clinical examination, patient handling, clinical observation, and basic diagnostic procedures through supervised clinical activities and demonstrations.	—
	Veterinary Medicine	*	Clinical Practice III	English	8th Semester	4 Akts	Students will be able to integrate clinical examination findings with laboratory and diagnostic imaging results, establish differential diagnoses, develop treatment plans, and monitor patient progress.	The course emphasizes the practical application of veterinary clinical knowledge through supervised clinical activities, diagnostic procedures, case evaluations, and treatment planning.	—
	Veterinary Medicine	VF 412	Veterinary Forensic Medicine	English	8th Semester	1 Akts	Students will be able to explain the principles of forensic veterinary medicine and identify the legal responsibilities of veterinarians. They will be able to evaluate animal injuries, suspected abuse, neglect, and poisoning, and explain the principles of evidence collection and report preparation.	The course covers animal welfare legislation, forensic examination, evidence collection, veterinary reporting, and the legal responsibilities of veterinary professionals. Teaching methods include theoretical lectures and case-based discussions.	—
	Veterinary Medicine	VF 405	Internal Medicine II	English	7th Semester	3 Akts	Students will be able to explain the etiology, pathogenesis, clinical signs, diagnosis, treatment, and prevention of internal diseases in cattle. They will be able to interpret laboratory findings and evaluate the effects of nutrition and management on cattle health.	The course focuses on internal diseases of cattle, including gastrointestinal, respiratory, cardiovascular, urinary, metabolic, and systemic disorders. Teaching includes lectures, clinical case discussions, and practical applications where applicable.	—
	Veterinary Medicine	VF 315	Introduction to Internal Medicine	English	5th Semester	2 Akts	Students will be able to explain the fundamental principles of veterinary internal medicine, perform basic clinical examinations, identify clinical signs, and describe the principles of differential diagnosis and diagnostic evaluation.	The course introduces clinical examination, diagnostic reasoning, laboratory evaluation, and general approaches to disease management through lectures, demonstrations, and introductory clinical case discussions.	—