

SEM XI

Name of the programme module	Diseases of farm animals – clinical training. Block II
Programme module type (obligatory/optional) field	Obligatory
Year of the study programme	VI
Semester of the study programme	XI
ECTS credits together with contact/no contact hours division	7.0 (4.0/3.0)
A unit providing the course	Institute of Animal Breeding, Department of Animal Surgery, Department of Epizootiology and Clinic of Infectious Diseases, Department and Clinic of Internal Diseases, University of Life Sciences in Lublin, Poland
Module objective	To master practical skills in the diagnosis and treatment of farm animals that are required to practice the profession of a veterinary doctor
Educational results	Knowledge: Gains the practical knowledge of diagnosis, prevention and therapy of animal diseases and the practical knowledge of occupational marketing
	Skills: Possesses the skills of: collecting interview data, carrying out a clinical examination in accordance with the plan of a clinical examination, performing in-depth analysis and correct interpretation of clinical symptoms, anatomopathological changes, laboratory and additional test results, formulating a diagnostic statement with consideration to a differential diagnosis and therapeutic and preventive procedures ; Shows the skills of: carrying out sedation and anaesthesia, putting the principles of asepsis and antisepsis into practice, performing surgical and gynaecological and obstetric procedures in animals; Is able to: diagnose the estrous cycle phase, pregnancy, diagnose and treat reproductive disorders, provide farm animals with non-surgical and surgical help during labour
	Social competencies: Observes the principles of professional ethics ; Is aware of his or her own limitations, understands that continuing education and self-improvement in the field of diseases of farm animals are essential
Content of the programme module	Restraining farm animals by the use of tools (the farmer's loop, a nose holder, a pig holder, etc.) General physical examination Inserting a nasopharyngeal tube Using a mouth gag Inserting the Thygesen tube Collection of rumen contents Rumenocentesis (rumen puncture) Rectal examination Examination of the mammary gland, collection of samples from the mammary gland Subcutaneous and intramuscular injection Intravenous infusion Collection of blood from the jugular vein and the caudal vein using a vacutainer tube Urine collection, catheterization of the urinary bladder in cows Dressings Applying a tuberculin test Inserting an intravenous catheter, intravenous infusion; single intravenous injections Subcutaneous injection, intramuscular injection Trauma management Methods of general and local anaesthesia Practical application of X-ray examination and ultrasonography Carrying out examination of the reproductive system in a cow (ultrasonography) Semen collection and insemination Management of difficult labour (fetotomy, Caesarean section) Diagnosis and treatment of reproduction disorders (uterine lavage, swab collection for cytological and bacteriological tests, endometrial biopsy) Manual removal of the placenta
Planned didactic forms/activities/methods	Didactic methods: clinical training in the clinics of the Faculty of Veterinary Medicine, consultations with doctors on clinical duty, field training with doctors

Name of the programme module, also in English	Diseases of horses – clinical training. Block II
Programme module type (obligatory/optional) field	Obligatory
Year of the study programme	VI
Semester of the study programme	XI
ECTS credits together with contact/no contact hours division	7.0 (4.0/3.0)
A unit providing the course	Institute of Animal Breeding, Department of Animal Surgery, Department of

	Epizootiology and Clinic of Infectious Diseases, University of Life Sciences in Lublin, Poland
Module objective	To master practical skills in horse disease diagnosis and treatment that are required to practice the profession of a veterinary doctor
Educational results	Knowledge: Gains the practical knowledge of diagnosis, prevention and therapy of animal diseases and the practical knowledge of occupational marketing
	Skills: Possesses the skills of: collecting interview data, carrying out a clinical examination in accordance with the plan of a clinical examination, performing in-depth analysis and correct interpretation of clinical symptoms, anatomopathological changes, laboratory and additional test results, formulating a diagnostic statement with consideration to a differential diagnosis and therapeutic and preventive procedures. Shows the skills of: carrying out sedation and anaesthesia, putting the principles of asepsis and antisepsis into practice, performing surgical and gynaecological and obstetric procedures in animals. Is able to: diagnose the estrous phase cycle, pregnancy, diagnose and treat reproductive disorders, provide a mare with non-surgical and surgical help during labour.
	Social competencies: Observes the principles of professional ethics. Is aware of his or her own limitations, understands that continuing education and self-improvement in the field of horse diseases are essential.
Content of the programme module	Evaluation of teeth, teeth floating Examination of the patency of the lacrimal duct, intubation Rhinoscopy, gastroscopy, bronchoscopy Inserting a nasogastric tube, gastric lavage Rectal infusion Inserting an intravenous catheter, intravenous infusion, single intravenous injections Subcutaneous injection, intramuscular injection Preparation of surgical instruments Preparing a patient for surgery Carrying out clinical (surgical, orthopaedic, dental, ophthalmic) examination Trauma management Methods of general and local anaesthesia Practical application of X-ray examination and ultrasonography Assisting during surgical procedures Management of horse breeding in individual breeders and in studs Carrying out a detailed clinical examination of the reproductive system in a mare and a stallion (ultrasonography) Semen collection and insemination Management of difficult labour (fetotomy, Caesarean section) Diagnosis and treatment of fertility disorders (uterine lavage, swab collection for cytological and bacteriological tests, endometrial biopsy) Manual removal of the placenta in a mare
Planned didactic forms/activities/methods	Didactic methods: clinical training in the clinics of the Faculty of Veterinary Medicine, consultations with doctors on clinical duty

Name of the programme module	Diseases of dogs and cats – clinical training. Block II
Programme module type (obligatory/optional) field	Obligatory
Year of the study programme	VI
Semester of the study programme	XI
ECTS credits together with contact/no contact hours division	7.0 (4.0/3.0)
A unit providing the course	Institute of Animal Breeding, Department of Animal Surgery, Department of Epizootiology and Clinic of Infectious Diseases, Department and Clinic of Internal Diseases, University of Life Sciences in Lublin, Poland
Module objective	To master practical skills in the diagnosis and treatment of dogs and cats that are required to practice the profession of a veterinary doctor
Educational results	Knowledge: Gains the practical knowledge of diagnosis, prevention and therapy of animal diseases and the practical knowledge of occupational marketing
	Skills: Possesses the skills of: collecting interview data, carrying out a clinical examination in accordance with the plan of a clinical examination, performing in-depth analysis and correct interpretation of clinical symptoms, anatomopathological changes, laboratory and additional test results, formulating a diagnosis (including a differential diagnosis) and carrying out therapeutic and preventive procedures; Shows the skills of: carrying out sedation and anaesthesia, putting the principles of asepsis and antisepsis into practice, performing surgical and gynaecological and obstetric procedures in animals ; Is able to: diagnose the estrous phase cycle, pregnancy, diagnose and treat reproductive disorders, provide a mare with non-surgical and surgical help during labour

	Social competencies: Observes the principles of professional ethics ; Is aware of his or her own limitations, understands that continuing education and self-improvement in the field of diseases of dogs and cats are essential
Contents of the education module	Diagnosis, differential diagnosis, prevention and treatment of diseases of particular systems and organs in dogs and cats, including neonates and geriatric animals Preventive and surgical management in the case of trauma and injuries Assisting in and performing basic surgical and gynaecological and obstetric procedures; male and female castration Examination characteristics and treatment standards in the management of patients with ophthalmic, dental and dermatological conditions Carrying out and interpreting results of endoscopic, ultrasound and radiographic examinations Inserting a nasogastric tube, gastric lavage, rectal infusion Semen collection and artificial insemination Assistance in labour and management of neonates Diagnosis and treatment of reproductive disorders
Planned didactic forms/activities/methods	Didactic methods: clinical training in the clinics of the Faculty of Veterinary Medicine, consultations with doctors on clinical duty

Name of the programme module	Clinical internship – Birds diseases
Programme module type (obligatory/optional)	Obligatory
Year of studies for a given field	V
Term for a given field	XI
ECTS credits together with contact/no contact hours division	3 (2/1)
A unit providing the course	Veterinary Prevention and Birds' Diseases Department
Module objective	To use the acquired knowledge in practice during the “Diseases of birds” module, learn proper conduct with patients, master post-mortem techniques, perform laboratory tests used to diagnose birds diseases and select suitable therapeutic measures.
Educational results	Knowledge: Knows diseases typical for individual species of birds. Knows particular diagnostic procedures for treatment of various species of birds. Knows methods, techniques and materials used in disease diagnostics
	Skills: Can analyse data derived from medical history. Can plan further diagnostic procedures, perform clinical and post-mortem examination of birds, collect samples for further diagnostic tests. Can perform basic bacteriological tests, such as inoculation on bacteriological substrates – preparation of antibiogram and application of diagnostic serums to identify bacteria and carry out parasitological testing.
	Social skills: Awareness of professional and ethical responsibility for one’s own diagnostic and therapeutic decisions concerning treatment of animals. Can provide information on necessary procedures and implemented therapy in a clear and plain way
Contents of the education module	- diagnostic procedures applied for birds’ diseases - method of collecting information on a bird or herd, mastering of the clinical and anatomopathological examination skills - sampling and types of samples collected for laboratory tests - vaccination – methods of vaccine administration - methods of treating birds’ diseases and application of medicinal products
Planned didactic forms/activities/methods	practical mastering of techniques of clinical and anatomopathological examination, laboratory diagnostics of parasite invasions and bacterial infections, discussion, laboratory class report