Module code	M_WE_SEM7 CHKON 1
Field of study	Veterinary medicine
Module name, also the name in English	Diseases of horses. Block I
	Choroby koni. Blok I
Language of instruction	English
Module type	Obligatory
Level of studies	Long-cycle master's degree studies
Form of study	Full-time
Year of study in the field of study	IV
Semester of study in the field of study	VII
ECTS credits, divided into contact/non-contact hours	6.0 (3.0/3.0)
Academic title/degree, name of the person responsible for the module	Prof. dr hab. Zbigniew Grądzki
Unit teaching the module	Department of Epizootiology and Infectious Diseases, Faculty of Veterinary Medicine, Lublin University of Life Sciences. Department and Clinic of Internal Animal Diseases, Department of Internal Diseases of Farm Animals and Horses, Faculty of Veterinary Medicine, Lublin University of Life Sciences
Module objective	Transferring to students the knowledge and practical skills necessary to practice veterinary medicine, concerning aetiology, epidemiology, pathogenesis, diagnostics, therapy and prevention of infectious and non-infectious equine diseases, as well as rules of administrative proceedings in the case of suspicion and confirmation of an infectious disease subject to obligatory control or registration.
The learning outcomes for the module include a description of the knowledge, skills and social competences that the student will gain after completing the module.	Knowledge:
	K1. The student can list, describe, and interpret the causes, clinical symptoms, and anatomopathological changes in horses in the course of equine infectious and non-infectious diseases
	K2. The student understands the pathogenesis and principles of intra-vital and post-mortem diagnosis, therapy and prevention of equine infectious and non-infectious diseases
	K3. The student knows the administrative methods of dealing with suspected or confirmed diseases subject to eradication or registration
	Skills:
	S1. The student can conduct an epizootic investigation, including obtaining a history and performing a clinical examination and ancillary tests to diagnose infectious and non-infectious equine diseases in individual subjects and groups of animals
	S2. The student can carry out the appropriate veterinary medicine management of equine infectious and non-infectious diseases identified in individual subjects and groups of animals
	S3. Is able to provide help to horses in case of medical emergency

	S4. The student follows the appropriate administrative procedure for suspected or confirmed diseases subject to mandatory eradication and registration
	Social competences:
	C1. Adheres to the rules of professional ethics
	C2. Has the habit of continuous improvement of knowledge and professional skills
	C3. The student has the necessary repertoire of interpersonal communication skills and is able to act in uncertain and stressful environments
Prerequisites and additional requirements	Adherence to the sequence of subjects

Module program content	Lecture programme (equine infectious diseases) Aetiology, epidemiology, pathogenesis, clinical signs, anatomopathological changes, diagnosis, differential diagnosis, treatment, prevention and control of selected major infectious equine diseases as listed by the World Organisation for Animal Health (OIE) and in the appendices to the Polish Act on animal health protection and eradication of animal infectious diseases, including African horse sickness, viral arteritis, herpesvirus infections (EHV1, EHV4, EHV3), equine influenza, zoonoses, selected infectious diseases of the equine nervous system – West Nile fever, infectious encephalomyelitis, selected infectious diseases of foals –rhodococcosis. Practical class programme (equine infectious diseases) Veterinary and medical management, including symptomatic and aetiotropic treatment, laboratory diagnostics, and specific and non-specific prevention of selected equine infectious diseases important to the clinician, including equine infectious anaemia, contagious equine metritis, salmonellosis, influenza-like illnesses, infectious lymphadenitis, glanders, tetanus, infectious foal lung disease, neonatal diarrhoea, foal septicemia Lecture programme (equine internal diseases) Emergency management in horses. Intensive care of adult horses in cases where their life is at risk. Drug administration methods. Aetiology and pathogenesis of horse colic diseases. Oral and oesophageal diseases. Aetiology and pathogenesis of laminitis and Equine Rhabdomyolysis Syndrome. Disorders of water-electrolyte and acid-base balance; vitamin and mineral deficiencies. Equine respiratory diseases part 1 Equine respiratory diseases part 2. Cardiovascular diseases. The most common equine endocrine diseases. Nervous system diseases part 1. Nervous system diseases part 2. Hyperlipemia syndrome and chronic nephritis in equines. Diseases of the equine blood and hematopoietic system. Selected foal and young horse diseases. Practical class programme (equine internal diseases) aetiopathogenesis, symptomatology, diagnosis, differential diagnosis, prevention and treatment of selected non-infectious equine diseases, including diseases of the respiratory system, cardiovascular system, gastrointestinal system, excretory system, laminitis, myopathies, conservative management of horse colic in equines, principles of intensive care in equine internal diseases, metabolic disorders, laboratory diagnosis of selected organ and systemic disorders.

List of core and supplementary literature	Basic literature (Equine infectious diseases and internal diseases) 1. Dietz O., Huskamp B.: Clinical practice: Horses 2. Strasser H.: Ochwat, Warszawa 2007 Supplementary literature (Equine infectious diseases and internal diseases) 1. Sellon D.C., Long M.T: Equine infectious diseases. Saunders, Elsevier, St. Louis, Missouri 2007 2. Robinson N.E: Current therapy in equine medicine. Saunders, Elsevier, St. Louis, Missouri 2003 3. Knottenbelt D.C.: Equine neonatology medicine and surgery. Saunders, Elsevier, St. Louis, Missouri 2004 4. Knottenbelt D.C, Pascoe R.R.: Color atlas of diseases and disorders of the horse. Mosby, Elsevier, 1994 5. Rush B., Mair T.: Equine respiratory diseases. Blackwell Science, 2004 6. McAulife S.B., Slovis N.M.: Atlas of foal diseases. Elsevier 2010 7. Professional veterinary literature, foreign and domestic alike
Planned forms/activities/teaching methods	Lectures, recitation sections, laboratory and hand-on classes, field practice, demonstrations and practical demonstrations, consultations

Verification methods and ways of documenting the achieved learning outcomes.	K.1, K.2 Current assessment of students during the practical classes, written and oral credit. Credit questions concern material introduced during lectures and practical classes. A single set of questions includes three open-ended questions that must be answered synthetically by the student in a total time of 30 minutes. (10 min. per question). Each question is graded based on a 0-5 points scale. The rules for converting credits into grades are provided in the course credit regulations. The grading scale is as follows: 9 points – satisfactory 10 and 11 points – satisfactory plus 12 points – good 13 points – good plus 14 – 15 points – very good Any student who scores below 9 is deemed to have failed to pass the theoretical material test within the given discipline as part of the given attempt. S.1, S.2 Observation and assessment of the student's practical skills during the practical credit test. Credit for the practical portion is given in the presence of animals (horses) during a block of classes for the given student group or during regular practical classes where time is allotted for practical skill training. Such classes are carried out using a hybrid method, i.e. at a classroom and at a stable, while fully observing the health and safety and biosafety principles. The student's practical skills and social competencies are assessed based on observation of the student's conduct during a conversation with the animal owner, as well as their performance of clinical examination procedures, diagnostic procedures and basic veterinary medicine procedures on horses, as specified in the student skill list (day one skills). Each student is required to demonstrate practical skills for three procedures indicated by the class instructor. Grades are given by the supervisor of the practical classes. The scoring rules for individual tasks and the rules for calculating the number of points counting towards the final grade are the same as for the theoretical part. S.3 Simulation classes on how to deal with the identification of diseases subject to eradication based on readiness plans. The practical classes are conducted in a seminar format. A hypothetical epizootic situation is created concerning a suspected or confirmed infectious disease subject to mandatory eradication or notification. Students analyse legislation governing administrative procedures for specific disease entities and plan a scenario for the district veterinarian, including a farm visit and epizootic interview, collection of

	samples for laboratory testing, transport of infectious material to the laboratory, interpretation of laboratory test results, and administrative procedures in the case of suspected disease and an outbreak of a disease subject to mandatory eradication. The essence of the simulation classes is a substantive discussion between the class instructor and the students, and credit is given for assessing the correctness of the reasoning of students who assume the roles of the various stakeholders in official administrative proceedings (animal owner, veterinarian, laboratory manager, district veterinarian). C.1, C.2, C.3 Observation and evaluation of the student's attitude during didactic classes. The student is evaluated by analyzing his/her approach to the pet owner, ability to converse with the owner, ability to work with other veterinarians and the ability to make decisions and act under stress.
ECTS credits	Contact • Lecture attendance – 45 hours • Class attendance – 45 hours • Participation in consultations related to the preparation for the credit – 2 hours • Attendance for credit – 2 hours Total 3 ECTS Non-contact • Preparation for laboratory classes – 35 hours • Preparation for credit – 20 hours • Studying the literature – 20 hours Total 3 ECTS
The workload of activities that requires direct participation of an academic teacher	• Lecture attendance – 45 hours • Class attendance – 45 hours • Participation in consultations related to the preparation for the credit – 2 hours • Attendance for credit – 2 hours Total 3 ECTS

Relation of module learning outcomes to course learning outcomes.	K1 – WE_W17 ++ K2 – WE_W18 ++ K2 – WE_W21 ++ K3 – WE_W20 +++ S1 – WE_U14 ++ S1 – WE_U16 ++ S1 – WE_U19 ++ S1 – WE_U28 +++ S2 – WE_U25 ++ S3 – WE_U17 + S4 – WE_U21 +++ C1 – WE_K2 ++ C2 – WE_K5 ++ C2 – WE_K6 ++ C2 – WE_K7 ++ C3 – WE_K10 ++
Elements and values affecting the final grade	The passing grade for the Diseases of horses, Block I course is the arithmetic mean calculated based on the component grades obtained from the infectious diseases and equine internal diseases parts. This grade is then taken into account when calculating the final exam grade, which is the arithmetic mean of the partial passing grades earned in each discipline. The weight of the Block I grade is 50%.