

Module code	M_WE_SEM11 CHZG ST2
Field of study	Veterinary medicine
Module name, also the name in English	Diseases of farm animals - clinical training. Block II Choroby zwierząt gospodarskich– staż. Blok II
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	VI
Semester of study in the field of study	XI
ECTS credits, divided into contact/non-contact hours	7 (4/3)
Academic title/degree, name of the person responsible for the module	Prof. dr hab. Krzysztof Lutnicki
Unit teaching the module	Department of Animal Reproduction, Department of Animal Surgery, Department of Epizootiology and Clinic of Infectious Diseases, Department of Internal Medicine, University of Life Sciences in Lublin
Module objective	Mastery of practical skills in the diagnosis and treatment of livestock diseases necessary to practice veterinary medicine. Acquisition of practical skills in differential diagnosis, treatment, prevention and control of livestock diseases in field practice in accordance with current legislation.
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 Has knowledge of diagnosis, prevention and treatment of livestock diseases and professional marketing.
	Skills:
	S1 . Is able to take history, conduct clinical examination in accordance with the plan of clinical examination, thoroughly analyze and properly interpret clinical symptoms, anatomopathological lesions, the results of laboratory and additional examinations, formulate diagnoses, taking into account the differential diagnosis and take therapeutic and prophylactic measures
	S2. Is able to administer sedation, anesthesia, principles of aseptics and antiseptics, and perform basic surgical and gynecologic-obstetrical procedures on animals.
	S3. Is able to diagnose the estrous cycle phase, pregnancy, recognize and treat reproductive disorders, and provide conservative and operative birthing assistance in livestock.
	Social competences:
	C1 Observes the principles of professional ethics in the scope of medical and veterinary practices concerning livestock
	C2 Understands his own limitations, the necessity of constant education and self-improvement in the field of farm animal diseases.

Prerequisites and additional requirements	In accordance to sequence of subjects
Module program content	<ol style="list-style-type: none"> <li>1. Taming animals with tools (farmer's loop, nose wrench, snout loop, etc.)</li> <li>2. General physical examination</li> <li>3. Inserting a nasopharyngeal probe</li> <li>4. Inserting a diverter</li> <li>5. Inserting a Thygesen probe</li> <li>6. Taking the rumen fluid</li> <li>7. Puncture into the rumen, trocaring</li> <li>8. Rectal examination</li> <li>9. Examination of the mammary gland, sampling</li> <li>10. Intramuscular and subcutaneous injection</li> <li>11. Intravenous infusion</li> <li>12. Collection of blood from the zygomatic and caudal veins in a closed system</li> <li>13. Urine collection, bladder catheterization in cows</li> <li>14. Dressings</li> <li>15. Inserting a tuberculin probe</li> <li>16. Intravenous catheter (venflon) insertion and intravenous infusions, disposable intravenous injections</li> <li>17. Subcutaneous injection, intramuscular injection</li> <li>18. Management of injuries and wounds</li> <li>19. Methods of general and local anesthesia</li> <li>20. Practical application of x-ray and ultrasound examination</li> <li>21. Ability to examine the reproductive system of a cow (ultrasound)</li> <li>22. Semen collection and insemination</li> <li>23. Ability to resolve difficult deliveries (fetotomy, cesarean section)</li> <li>24. Ability to diagnose and treat fertility disorders (uterine lavage, taking smears for cytological and bacteriological studies, performing uterine biopsies). Manual detachment of the placenta</li> </ol>
List of core and supplementary literature	<ol style="list-style-type: none"> <li>1. Gerrit Dirksen, Hans-Dieter Gründer z Giessen i Matthaues Stöber: Internal diseases and bovine surgery</li> <li>2. R.W. Blowey, A.D. Weaver: Atlas of cattle diseases, U&amp;P</li> <li>3. Professional veterinary literature, foreign and domestic ones recommended by internship supervisors.</li> </ol>
Planned forms/activities/teaching methods	Didactic methods: clinical internship in the clinics of the Faculty of Veterinary Medicine, consultations with doctors on clinical duty, field trips with doctors.
Verification methods and ways of documenting the achieved learning outcomes.	<p>K.1 Ongoing assessment of students during clinical internship.</p> <p>S.1, S2, S3 Observation and assessment of practical skills during the clinical internship based on the management of specific clinical cases</p> <p>C.1 Observation and assessment of the student's attitude during the clinical internship</p>

ECTS credits	<p>Participate in consultations related to the development of medical histories - 4 x 3 hours = 12 hrs  Development of a medical history - 4 x 15 hours = 60 hrs  Completion of clinical training - 60 hours  Literature study of selected clinical cases - 4 x 7 hours = 28 hrs  Credit for medical history - 4 x 1 hour = 4 hrs  Participation in consultations related to preparation for internship credit - 4 x 5 hours = 20 hrs  Preparation for internship credit - 10 hours  Attendance for internship credit - 5 hours  Total student workload - 199 hours, which equals 7.0 ECTS credits</p>
The workload of activities that requires direct participation of an academic teacher	<ul style="list-style-type: none"> <li>• Participate in consultations related to the development of medical histories -12 hrs</li> <li>• Participation in consultations related to preparation for internship credit - 20 hrs</li> <li>• Completion of clinical training - 60 hours</li> <li>• Credit for medical history - 5 hours</li> <li>• Attendance for internship credit - 5 hours</li> </ul> <p>Total 4 ECTS credits</p>
Relation of module learning outcomes to course learning outcomes.	<p>K1- WE_W17++, WE_W18++, WE_W19++, WE_W20++, WE_W21++  S1 - WE_U14++, WE_U16++, WE_U17++, WE_U19++, WE_U20++, WE_U23 ++, WE_U25++  S2 - WE_U24++, WE_U25++, WE_U26++, WE_U14++  S3 - WE_U16++, WE_U19++, WE_U25++  C1 - WE_K2++  C2 - WE_K5++, WE_K6++</p>
Elements and values affecting the final grade	<p>Test exam 60%, evaluation of the project task (medical history), evaluation of internship completion by the supervisor - 20% each</p>