



SZKOŁA GŁÓWNA
GOSPODARSTWA
WIEJSKIEGO

Mastitis prevention and treatment in dairy herds

Educational subject description sheet

Basic information

Field of study Veterinary Medicine		Didactic cycle 2025/26
Speciality -		Subject code WETFVMS_D.5400K.01818.25
Organizational unit Faculty of Veterinary Medicine		Lecture languages english
Study level long-cycle		Mandatory Elective subjects
Study form full-time studies		Block Major subjects
Education profile General academic		Disciplines Veterinary medicine
Coordinator	Michał Trela	
Teacher	Michał Trela	
Period Semester 11	Examination Pass with grade Activities and hours Lecture: 5 Ćwiczenia kliniczne: 25	Number of ECTS points 2

Goals

Code	Goal
C1	The aim of elective courses is to familiarize students with practical aspects of managing a herd of dairy cows in the context of prevention and treatment of mastitis.
C2	Prioritize management changes to achieve stated goals. Set achievable targets for the average number of somatic herd cells (SCC) an indicator of clinical mastitis. Maintenance of a Clean, Dry, Comfortable Environment. Proper Milking Procedures. Proper Maintenance and Use of Milking Equipment. Effective Dry Cow
C3	Management and Regular Monitoring of Udder Health Status - clinical classes. Diagnosis and analysis of clinical mastitis in herd. Independent analysis of clinical - cases.

Entry requirements

Students has a positive assessment of the module "Rotation - Farm animal diseases"

Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
Knowledge - Student knows and understands:			
W1	the rules of clinical evaluation and animal health monitoring;	B.W5	Test (written or computer based)
W2	conditions of animal welfare	B.W9	Test (written or computer based)
Skills - Student can:			
U1	interpret the results of additional methods of diagnosis of mastitis	B.U7	Assessment of activity during classes
U2	apply adequate methods of mastitis prevention	B.U3	Assessment of activity during classes
Social competences - Student is ready to:			
K1	works in a team, and have a good communication with the animal owner / keeper	KS.10, KS.3	Assessment of activity during classes
K2	independently makes clinical diagnosis	KS.4, KS.5	Assessment of activity during classes

Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Diagnosis and analysis of clinical mastitis in herd. Independent analysis of clinical - cases. Factors affecting the efficacy of the mastitis therapy.	W1, W2	Lecture

No.	Course content	Subject's learning outcomes	Activities
2.	Prioritize management changes to achieve stated goals. Set achievable targets for the average number of somatic herd cells (SCC) an indicator of clinical mastitis. Maintenance of a Clean, Dry, Comfortable Environment (2 hours). Proper Milking Procedures. Proper Maintenance and Use of Milking Equipment. Effective Dry Cow Management and Regular Monitoring of Udder Health Status	W1, W2, U1, U2, K1, K2	Ćwiczenia kliniczne

Course advanced

Activities	Methods of conducting classes
Lecture	Lecture, E-learning - lecture part
Ćwiczenia kliniczne	Case study, Discussion, Problem solving, Analysis of source materials, Teamwork, Individual work, Field measurements, Field observations

Activities	Examination method	Percentage
Lecture	Test (written or computer based)	50%
Ćwiczenia kliniczne	Assessment of activity during classes	50%

Activities	Credit conditions
Lecture	Theoretical test, written one or multiple choice test. The second test date is in the same form. Scoring for the written test: 61-69% - (3.0) 70-76% - (3.5) 77-84% - (4.0) 85-92% - (4.5) 93-100% - (5.0) No extra assessment methods are anticipated. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.
Ćwiczenia kliniczne	20% of absence is allowed in accordance with the study regulations. No extra assessment methods are anticipated

Literature

Obligatory

1. Mastitis in Cattle. A. Biggs. The Crowood Press, 2009
2. Periodicals: Theriogenology, Animal Reproduction Science, Reproduction of Domestic Animals, Biology of Reproduction.
3. Large Animal Theriogenology. R.F. Youngquist, W.L. Threlfall. 2nd ed. Saunders, Elsevier. 2007

Calculation of ECTS points

Activity form	Activity hours*
Lecture	5

Ćwiczenia kliniczne	25
Preparation for the exam	15
Self-study on the content covered in class	15
Student workload	Hours 60
Number of ECTS points	ECTS 2

* hour means 45 minutes

Effects

Code	Content
KS.3	Absolwent jest gotów do udziału w rozwiązywaniu konfliktów, a także wykazywania się elastycznością w reakcjach na zmiany społeczne
KS.4	Absolwent jest gotów do korzystania z obiektywnych źródeł informacji
KS.5	Absolwent jest gotów do formułowania wniosków z własnych pomiarów lub obserwacji
KS.10	Absolwent jest gotów do działania w warunkach niepewności i stresu
B.U3	Absolwent potrafi przeprowadzać pełne badanie kliniczne zwierzęcia
B.U7	Absolwent potrafi stosować aparaturę diagnostyczną, w tym radiologiczną, ultrasonograficzną i endoskopową, zgodnie z jej przeznaczeniem i zasadami bezpieczeństwa dla zwierząt i ludzi oraz interpretować wyniki badań uzyskane po jej zastosowaniu
B.W5	Absolwent zna i rozumie zasady przeprowadzania badania klinicznego i monitorowania stanu zdrowia zwierząt
B.W9	Absolwent zna i rozumie zasady zapewniania dobrostanu zwierząt