



SZKOŁA GŁÓWNA  
GOSPODARSTWA  
WIEJSKIEGO

## Farm animal diseases - surgery

### Educational subject description sheet

#### Basic information

<b>Field of study</b> Veterinary Medicine	<b>Didactic cycle</b> 2023/24
<b>Speciality</b> -	<b>Subject code</b> WETFVMS_D.540K.642188ad3c76b.23
<b>Organizational unit</b> Faculty of Veterinary Medicine	<b>Lecture languages</b> english
<b>Study level</b> long-cycle	<b>Mandatory</b> Obligatory subjects
<b>Study form</b> full-time studies	<b>Block</b> Major subjects
<b>Education profile</b> General academic	<b>Disciplines</b> Veterinary medicine
<b>Coordinator</b>	Bernard Turek
<b>Teacher</b>	Bernard Turek
<b>Period</b> Semester 7	<b>Examination</b> Exam
	<b>Activities and hours</b> Lecture: 15 Ćwiczenia kliniczne: 6 Field exercises: 9
	<b>Number of ECTS points</b> 2

#### Goals

Code	Goal
C1	The aim of education is to provide knowledge on the etiology and pathogenesis of farm animals diseases requiring surgical treatment, and clinical methods of putting the surgical patients through the initial diagnosis and treatments.

## Entry requirements

Anatomy, physiology, microbiology, pharmacology, pathophysiology, pathomorphology, general surgery and anaesthesiology, veterinary roentgenology. The student should have the minimum knowledge in the field of topographic anatomy, physiology, pathophysiology, pathomorphology, general surgery, and anaesthesiology, and radiology.

## Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
<b>Knowledge - Student knows and understands:</b>			
W1	the etiology, pathogenesis and diagnostic techniques and treatment of the livestock diseases that require surgical intervention;	B.W1, B.W2, B.W3, B.W4, B.W5	Written exam
W2	disorders at the level of the cell, tissue, organ, system, and organism in the course of the disease	B.W4, B.W5, B.W6	Written exam
<b>Skills - Student can:</b>			
U1	diagnose of the most popular diseases of livestock, that require surgical intervention.	B.U3	Written exam
U2	to treat diseases of the stomach and fingers of cattle.	B.U1	Written exam
U3	is able to castrate farm animals	B.U11	Written exam
U4	choose the appropriate method of treatment	B.U2, B.U3, B.U7	Written exam
U5	perform claw trimming together with veterinary intervention in the case of claw diseases, including the implementation of pharmacological treatment and treatment methods	B.U10, B.U11, B.U13	Written exam
<b>Social competences - Student is ready to:</b>			
K1	organizing work in field conditions	KS.10	Written exam
K2	communicating with other employees	KS.9	Written exam
K3	critically assess the scope of their knowledge and skills and share their competencies with others	KS.1, KS.5	Written exam
K4	analyzing scientific literature in the field of livestock surgery and critically evaluating it	KS.1, KS.8	Written exam

## Study content

No.	Course content	Subject's learning outcomes	Activities
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1.	<ul style="list-style-type: none"> <li>1. General information about the subject</li> <li>2. History of the farm animals</li> <li>3. Restraint techniques</li> <li>4. Elements of anesthesia</li> <li>5. Castration</li> <li>6. Dehorning and disbudding</li> <li>7. Claw trimming</li> <li>8. Lameness in cattle part1</li> <li>9. Lameness in cattle part 2</li> <li>10. Displacement of abomasum part 1</li> <li>11. Displacement of abomasum part 2</li> <li>12. Reticuloperitonitis</li> <li>13. Rumenotomy</li> <li>14. Esophagus obstruction</li> <li>15. Lacerations of the perineum, prolapsus of rectum</li> </ul>	W1, U1, U2, U3, U4, U5	Lecture
2.	<ul style="list-style-type: none"> <li>1. Foot trimming</li> <li>2. Common surgical procedures of the bovine foot.</li> <li>3. Claw diseases</li> <li>4. Dehorning and disbudding</li> <li>5. Chosen additional procedures - iv, im, epidural anesthesia, nerve blocks</li> </ul>	W1, W2, U1, U3, U4, K1, K2, K3, K4	Field exercises, Ćwiczenia kliniczne

### Course advanced

Activities	Methods of conducting classes
Lecture	Lecture
Ćwiczenia kliniczne	Case study, Teamwork, Individual work
Field exercises	Case study, Teamwork, Individual work

Activities	Examination method	Percentage
Lecture	Written exam	50%
Ćwiczenia kliniczne	Written exam	30%
Field exercises	Written exam	20%

Activities	Credit conditions
Lecture	<p>For passing the module, it is obligatory to attend classes (it is possible according to university regulations to be absent on max 20% of classes) and actively take part in them. Student has to be able to perform presented techniques in correct way. Student has to know theoretical basics of the most common surgical procedures performed on livestock animals.</p> <p>Passing the classes is performed as written test with opened and test questions – there are 2 attempts. Passing the exam is performed as written test. Punctuation for both tests:  60-69% - (3,0)  70-76% - (3,5)  77-84% - (4.0)  85-92% - (4.5)  93-100% -(5.0)</p> <p>There are no other planned methods of verification of student knowledge.  In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.</p>
Ćwiczenia kliniczne	<p>For passing the module, it is obligatory to attend classes (it is possible according to university regulations to be absent on max 20% of classes) and actively take part in them. Student has to be able to perform presented techniques in correct way. Student has to know theoretical basics of the most common surgical procedures performed on livestock animals.</p> <p>Passing the classes is performed as written test with opened and test questions – there are 2 attempts. Passing the exam is performed as written test. Punctuation for both tests:  60-69% - (3,0)  70-76% - (3,5)  77-84% - (4.0)  85-92% - (4.5)  93-100% -(5.0)</p> <p>There are no other planned methods of verification of student knowledge.  In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.</p>
Field exercises	<p>For passing the module, it is obligatory to attend classes (it is possible according to university regulations to be absent on max 20% of classes) and actively take part in them. Student has to be able to perform presented techniques in correct way. Student has to know theoretical basics of the most common surgical procedures performed on livestock animals.</p> <p>Passing the classes is performed as written test with opened and test questions – there are 2 attempts. Passing the exam is performed as written test. Punctuation for both tests:  60-69% - (3,0)  70-76% - (3,5)  77-84% - (4.0)  85-92% - (4.5)  93-100% -(5.0)</p> <p>There are no other planned methods of verification of student knowledge.  In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.</p>

## Literature

### Obligatory

1. Bovine Surgery and Lameness. A. David Weaver, Guy St Jean, Adrian Steiner, Blackwell Publishing, second edition. 2005.
2. Farm Animal Surgery. Susan Fubini, Norm Ducharme, Saunders, 2004.
3. Lameness in Cattle. Paul R. Greenough, David Weaver, 2007.

### Optional

1. Hendrikson D.: Turner and Mcliwraith Techniques in Large Animal Surgery 4th edition Wiley J 2013
2. Sarel R. Van Amstel, Jan Shearer.: Manual for treatment and Control of Lameness in Cattle. Blackwell 2006
3. R.w. Blowey. Cattle Lameness and Hoofcare. 3rd edition 2015.
4. "Displaced Abomasums" Author: Tim Potter BVetMed PhD MRCVS; Reviewed: Richard Laven PhD BVetMed MRCVS 2017  
Published: 2012
5. <https://www.acvs.org/large-animal/abomasal-displacement>

## Calculation of ECTS points

Activity form	Activity hours*
Lecture	15
Ćwiczenia kliniczne	6
Field exercises	9
Preparing a report	10
Self-study on the content covered in class	10
Preparation for the exam	10
<b>Student workload</b>	<b>Hours</b> 60
<b>Number of ECTS points</b>	<b>ECTS</b> 2

\* hour means 45 minutes

## Effects

Code	Content
KS.1	Absolwent jest gotów do wykazywania odpowiedzialności za podejmowane decyzje wobec ludzi, zwierząt i środowiska przyrodniczego
KS.5	Absolwent jest gotów do formułowania wniosków z własnych pomiarów lub obserwacji
KS.8	Absolwent jest gotów do pogłębiania wiedzy i doskonalenia umiejętności
KS.9	Absolwent jest gotów do komunikowania się ze współpracownikami i dzielenia się wiedzą
KS.10	Absolwent jest gotów do działania w warunkach niepewności i stresu
B.U1	Absolwent potrafi bezpiecznie i humanitarnie postępować ze zwierzętami oraz instruować innych w tym zakresie
B.U2	Absolwent potrafi przeprowadzić wywiad lekarsko-weterynaryjny w celu uzyskania dokładnej informacji o pojedynczym zwierzęciu lub grupie zwierząt oraz jego lub ich środowisku bytowania
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.U10	Absolwent potrafi przepisywać i stosować weterynaryjne produkty lecznicze oraz materiały medyczne, z uwzględnieniem ich bezpiecznego przechowywania i utylizacji
B.U11	Absolwent potrafi stosować metody bezpiecznej sedacji, ogólnego i miejscowego znieczulenia oraz oceny i łagodzenia bólu
B.U13	Absolwent potrafi dobierać i stosować właściwe leczenie
B.W1	Absolwent zna i rozumie zaburzenia na poziomie komórki, tkanki, narządu, układu i organizmu w przebiegu choroby
B.W2	Absolwent zna i rozumie mechanizmy patologii narządowych i ustrojowych
B.W3	Absolwent zna i rozumie przyczyny i objawy zmian anatomopatologicznych, zasady leczenia i zapobiegania w poszczególnych jednostkach chorobowych
B.W4	Absolwent zna i rozumie zasady postępowania diagnostycznego, z uwzględnieniem diagnostyki różnicowej, oraz postępowania terapeutycznego
B.W5	Absolwent zna i rozumie zasady przeprowadzania badania klinicznego i monitorowania stanu zdrowia zwierząt
B.W6	Absolwent zna i rozumie sposób postępowania z danymi klinicznymi i wynikami badań laboratoryjnych i dodatkowych