Code of subject	M_WE SEM6 CHIR ANG		
Field of study	Veterinary medicine		
Name of the programme module	General surgery and anesthesiology		
	Chirurgia ogólna I anestezjologia		
Language of instruction	English		
Type of the training module	Obligatory		
Level of the training module	Master level		
Form ofstudies	Full-time		
Location in the programme (year)			
Location in the programme (semester)	VI		
Number of ECTS credits with a division	3 (2,3/0,7)		
into contact/noncontact			
Name and surname of the person in	Prof. dr hab. Ireneusz Balicki		
charge			
Unit offering the subject	Department and Clinic of Animal Surgery, Faculty of Veterinary		
	Medicine, University of Life Sciences in Lublin, Poland		
Aim of the module	To learn about the methods for anaesthesia in animals, and		
	about surgical instruments and anaesthetic apparatus, tissue		
	sealing, bleeding control, applying a dressing, the principles of		
	surgical asepsis and antisepsis, the methods for instrument		
	sterilisation, the principles for the management of surgical		
	emergency cases		
Learning outcomes – the total number	Knowledge:		
of learning outcomes may not exceed	K1. Student has the knowledge of drugs that are used for		
(4-8) for the module. The description of	premedication and general anaesthesia, the methods for local		
the intended learning outcomes that a	and general anaesthesia and the management of surgical		
student should achieve after the	emergency cases.		
completion of the module should be	K2. Is familiar with the diagnostics and therapy of wounds, closed		
provided. The outcomes for all forms of	injuries, haematomas, abscesses, lymphomas.		
classes used should be presented.	K3. Is familiar with surgical instruments and anaesthetic		
·	apparatus, and the methods for tissue cutting and sealing,		
	bleeding control and dressing application.		
	Skills::		
	S1. Is able to apply appropriate sedation and carry out general		
	and local anaesthesia, manage pain and provide first aid to		
	patients with bleeding, wounds, multi-organ injury and		
	anaesthesiological complications.		
	S2. Possesses the skill of applying and using surgical instruments		
	and anaesthetic apparatus.		
	S3. Is able to apply surgical aseptic and antiseptic techniques and		
	sterilise instruments.		
	Social competencies:		
	Sc1. Acts in accordance with the principles of veterinary		
	deontology that pertain to aspects of the management of		
	emergency cases and pain relief.		
	Sc2. Has the understanding of pain in animals, aims to improve		
	animal welfare and to increase the awareness of the subject		
	among animal owners, and cooperates with animal owners as		
	part of the provided therapy.		
Preliminary and additional	according to the Resolution on the Sequence		
requirements			
1	1		

Contents of the training module – a	Contents of the lectures (on a 1 hour basis):
compact description	1. Phenothiazine derivatives
compact description	2. Benzodiazepine derivatives
	3. $\alpha 2$ agonists
	-
	4. Butyrophenone derivatives
	5. Muscle relaxants, painkillers
	6. Ketamine
	7. Tiletamine, propofol, etomidat
	8. Fundamentals of general anaesthesia
	9. Inhalation anaesthesia
	10. Patients with multi-organ injury
	11. Management of emergency cases
	12. Closed injuries, abscesses, haematomas, lymphomas
	13. Wounds
	14. Wound healing
	Contents of the classes (on a 2 hours basis)
	1. Taming animals. Surgical and wound examination plans
	2. Local analgesua
	3. Epidural anesthesia. Small animal anesthesia schemes
	4. Bird anesthesia. Anesthesia of rabbits and rodents
	5. Anesthesia of horses. Seminar classes
	6. Infusions, injections, punctures
	7. Dressings and dressing materials
	8. Surgical sutures and suturing of tissues
	9. Surgical sutures and suturing of tissues
	10. Surgical sutures and suturing of tissues.
	11. Preparation of the patient for surgery, asepsis,
	antiseptics, sterilization of surgical instruments. Surgical
	instruments.
	12. Equipment for inhalation anesthesia. Seminar classes
	13. Monitoring of general anesthesia. Inhalation anesthesia,
	clinical application
	14. Tissue cutting, hemorrhages. Seminar classes
	15. Completing exercises
Recommended and obligatory reading	1. Tranquilli W.J., Thurman J.C., Grimm K.A.: Veterimary
list	anaesthesia and analgesia
	2. Seymour c., Gleed R.: Manual of small animal anaesthesia and
	analgesiala
The intended forms/activities/ teaching	1. Multimedia presentations
methods	 Restraining animals in practice
methous	
	 Practical demonstration of premedication, infusion and inhalation anaesthesia
	4. Monitoring of an anaesthetic patient in practice
	5. Demonstration of surgical instruments and anaesthetic
	apparatus and their application in practice
	6. Practical teaching of methods for applying surgical sutures
	7. Applying a dressing
	8. Discussion of the action of particular drugs by students

Methods of verification and documentation forms of the achieved learning outcomes	Verification of the student's knowledge: discussion, oral test, written test, exam. Students' knowledge acquired during classes is assessed on the basis of two tests - oral or written tests, the score of which above good entitles them to be exempted from the anesthesiology part of the exam. The exam is conducted in the form of a test or descriptive exam. Verification of the student's skills: practical credit, which is part of the exam, on surgical instruments and tissue suturing, and evaluation of a practical task. Verification of social competences: discussion, analysis of clinical situations, assessment of cooperation and self-education skills					
Balance of ECTS credits	CONTACT	Hours	LCTC	л I		
	Loctures	Hours 15	<i>ECTS</i> 0,6	-		
	Lectures	30				
	Classes Consultation	5	1,2			
	Test and exam	8	0,2 0,3			
	IN TOTAL	-				
	NO CONTACT	58	2,3	-		
		8	0.2			
	preparation for exercises		0,3	-		
	preparation for credits IN TOTAL	10 18	0,4	-		
The workload of activities that requires		15	0,7			
direct participation of an academic	Participation in lectures Participation in exercises	30	0,6 <i>1,2</i>			
teacher	Consultation	5	0,2			
	Test and exam	8	0,2			
	IN TOTAL	<i>o</i> 58				
Polationship batwaan subject loarning			2,3			
Relationship between subject learning outcomes and veterinary studies	K1 – B.W2.++, B.W5++, B.W6.++					
learning outcomes	K2 – B.W1.++, B.W4.++, B.W5.++					
learning outcomes	K3 – B.W4.++, S1 – B.U1.++, B.U2.++, B.U3.++, B.U4.++, B.U11.++, B.U12.++,					
	S1 – B.01.++, B.02.++, B.03.++, B.04.++, B.011.++, B.012.++, B.U15.++ S2- B.U7.++ B.U11.++					
	S3 – B.U7.++ , B.U10.++, B.U11	++. B.U14++				
	Sc1 – K1++ , K2++, K8++, K10++					
	Sc2 – K1++, K2++, K8++, K10++					
Impact of selected compounds to final	The final grade is influenced by		practical tes	ts for		
grade	surgical instruments and sewir	•	•			
They constitute, respectively: 25% - practical test in se						
	practical test in surgical instruments, 50% - exam. The descriptive					
	exam is graded on the average of the grades obtained from the					
	three questions. Exam in the form of a test - a satisfactory grade					
	is 60% of correct answers.					