

Course	Surgery of dogs and cats
ECTS	5
Status	obligatory
Form of final credit	exam
Prerequisites:	course credit: General surgery and anesthesiology; Clinical and laboratory

Study field:	veterinary
Profile	practical
Study code	SJ
Study semester	9
Language	English

Course Leader:	
Name of the Unit:	University Centre of Veterinary Medicine Institute Veterinary Sciences

Learning outcomes:			
Code	Description	Code	
		directional effect	discipline
Knowledge-know and understand			
CHP_W1	Influence of anesthetic agents used for premedication and general anesthesia on dog's homeostatic functions; pre- and postoperative care.	B.W1	RW
CHP_W2	ability to perform basic surgeries on dogs and cats and make proper postoperative recommendations; ability to perform differential diagnosis and decide to conduct further investigations; accurate interpretation of diagnostic findings; prepare clear case reports;	B.W3	RW
CHP_W3	rules of diagnostic surgical procedures, including surgical examination plan, differential diagnosis of certain conditions and patient criteria for surgical treatment	B.W4	
Skills: - is able to:			
CHP_U1	collect patient's medical history; obtain and make use of veterinary authorized drugs; Compliance with health and safety regulations	A.U12	RW
CHP_U2	present the clinical condition, correctly interpret the data obtained in the surgical examination, qualify the patient for examination, determine the degree of risk and prognosis, and give therapeutic recommendations	B.U1 B.U4	RW
CHP_U3	perform surgical procedures on dogs and cats and indicate post-operative recommendations, perform differential diagnosis and order appropriate tests	B.U3 B.U10	RW
CHP_U4	select and apply appropriate treatment and feeding of animals according to the disease entity, its course and prognosis, taking into account the welfare of the animal	B.U13	RW
CHP_U5	assess the need for euthanasia and is able to perform it in a humane manner. Skilfully administers first aid to animals in case of emergency conditions. Applies surgical methods and techniques to dogs and cats. Implements the principles of surgical asepsis and antiseptics and uses proper methods of sterilizing surgical equipment	B.U15	RW

GENERAL SOCIAL COMPETENCIES - is ready to: O.K1; O.K2; O.K8; O.K6; O.K5

Educational Content:

Lectures	30	hours
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Peritonitis; SIRS (Systemic Inflammatory Response Syndrome) ,MODS (Multiple Organ Dysfunction Syndrome)- etiology ,pathogenesis, management of the life-threatening conditions, trauma patient;

Conditions of the oral cavity and oropharynx and diseases of the head and neck (without ophthalmology) – conservative and surgical treatment

Surgery of the integumentary system, principles of plastic and reconstructive surgery, principles of the skin grafts and flaps.

Abdominal surgery of the dog and cat

Surgery and diseases of the mammary glands: operation techniques and complications

Class topics
Surgery of the pelvic cavity

Surgery of the male reproductive tract (prostate) and management of other issues resulted in obstructed defecation

Surgery of organs in the thoracic region

Small animal fracture repair

Joint diseases in small animal practice

Spine disorders in small animals

Surgery of the urinary tract

Surgery of the digestive tract obstruction; types and management of hernias in small animals

Fundamentals of surgical oncology in small animals

Ophthalmic surgery in dogs and cats

Realized learning
outcomes
CHP_W1, CHP_W2, CHP_W3,

Theoretical written exam - knowledge from lectures and exercises applies. Minimum pass rate of 60% - below that a grade of 2.0

Verification methods and
evaluation principles and
criteria

Scale of grades

66-72% - 3,5

73-82% - 4,0

83-91% - 4,5

92-100% - 5,0

Contribution to final module grade 50%

Laboratory classes	45	hours
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Care and maintenance of the surgical environment; principles of surgical asepsis; surgical instrumentation, methods of sterilization; preparation of the surgical patient.

Principles of bandaging, splinting and casting techniques; types of casts/splints and methods of its fixation on particular body areas.

Hemostasis; wound management; categorization of a patient's physiological status to predict perianesthetic risk according to ASA;

Surgery of the head: surgery of the ear, eyes, salivary glands and sinuses.

Surgery of the neck: surgery of the oral cavity and oropharynx, larynx, trachea and esophagus .

Partial test – Surgery of the thorax: selected issues.

Class topics
Selected issues of the surgery of the abdominal cavity (without digestive system).

Surgical emergencies

Principles of small animal fracture repair techniques

Management of joint diseases (including joint dysplasia and juvenile orthopaedic conditions).

Partial test – principles of the spine surgery.

Principles of small animal dentistry;

Principles of small animal ophthalmology;

Partial Test – Surgery of the digestive system - volvulus and torsion, obstructions, foreign bodies;

Principles of liver, kidney and spleen surgery ; Practical classes with additional teaching equipment

Realized learning outcomes	CHP_U1, CHP_U2, CHP_U3, CHP_U4, CHP_U5
	Written colloquium on the class material.
	Scale of grades: 60-65% - 3,0
	66-72% - 3,5
	73-82% - 4,0
Verification methods and evaluation principles and criteria	83-91% - 4,5
	92-100% - 5,0
	Contribution to the final module grade 25%.
	Successful completion of the colloquium is a prerequisite for admission to the theoretical and degree of mastery of surgical techniques according to a scale of 2-5.
	Contribution to the final module grade 25%.

Literature

Basic	T.W. Fossum: Chirurgia małych zwierząt Tom I, II, III, Elsevier 2009
	A. Coughlan, A. Miller: Leczenie złamań u małych zwierząt
	M. Galanty. Chirurgia małych zwierząt PWRiL W-wa 2013
	H. Scheibitz, W. Brass: Chirurgia ogólna dla lekarzy weterynarii i studentów PRWiL W-wa 1983
Additional	D. J. Maggs i inni: Okulistyka weterynaryjna Slattera Elsevier 2009
	W.W. Muir: Anestezjologia weterynaryjna, Elsevier 2008

Structure of learning outcomes:

Discipline	agricultural sciences - veterinary discipline	5,0	ECTS
Discipline			

Structure of student activity:

classes implemented with direct participation of the instructor	80	h	3,1	ECTS
within	lectures	30	h	
	classes and seminars	45	h	
	consultations	2	h	
	participation in exam	3	h	
own work	45	h	1,9	ECTS