

Biotechnical Faculty / ANIMAL PRODUCTION / ANATOMY AND PHYSIOLOGY OF DOMESTIC ANIMALS

Course:	ANATOMY AND PHYSIOLOGY OF DOMESTIC ANIMALS			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
10141	Mandatory	2	6	4+0+2
Programs	ANIMAL PRODUCTION			
Prerequisites	Passed exam in Zoology			
Aims	Study of the anatomical structure and function of the organism of domestic animals			
Learning outcomes	Students are able to recognise the parts of the animal body, classify and describe the bones and muscles of domestic animals, distinguish four basic types of tissue, describe the structure of an animal cell, distinguish the role of individual organelles and their processes, describe the structure and function of all organic systems.			
Lecturer / Teaching assistant	dr Nikola Pejovic			
Methodology	Lectures, consultations, colloquiums, seminars, etc.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Introduction to Anatomy, anatomical terms, the basics of cytology and histology			
I week exercises	Topographical terms, structure and connection of bones			
II week lectures	Osteology: bones of the head, trunk, front and rear limbs			
II week exercises	Bones of the skull and face, spine, ribs, sternum and bones of the limbs			
III week lectures	Myology: muscles classification, the muscles of certain body parts			
III week exercises	Muscle tissue, muscle structure and function			
IV week lectures	Angiology: cardiovascular and lymphatic system			
IV week exercises	Heart, blood vessels, lymphatic organs			
V week lectures	Physiology of blood and lymph			
V week exercises	Physical and chemical properties of blood, blood cells, blood proteins			
VI week lectures	Immunology			
VI week exercises	Antigens, antibodies, natural and artificial immunity			
VII week lectures	Anatomy and physiology of the nervous system, Colloquium I			
VII week exercises	Central and peripheral nervous system, reflexes, autonomic nervous system			
VIII week lectures	Structure and function of the respiratory tract			
VIII week exercises	Respiratory tracts, respiratory barrier, spirometry, respiratory volumes, proving CO ₂ in exhaled air			
IX week lectures	Digestive system			
IX week exercises	The specificity of the structure of the digestive tract of ruminants and non-ruminants			
X week lectures	Physiology of digestion			
X week exercises	Determination of pH of saliva, ptyalin and proving the effect of ptyalin, acidity of gastric juice, pepsin, lab-ferment, pancreatic juice, bile			
XI week lectures	Endocrine system			
XI week exercises	Types of hormones, mechanism of action of hormones			
XII week lectures	Anatomy and physiology of male and female reproductive organs, mammary gland			
XII week exercises	Sex hormones and the sex cycle			
XIII week lectures	Kidneys and urinary tract			
XIII week exercises	Physico-chemical properties of urine, chemical components of urine, pathological components of urine, determination of urea, uric acid, hemoglobin, acetone bodies, bile color and bile acids			
XIV week lectures	Senses, Colloquium II			

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XIV week exercises	Sense of sight, sense of hearing and balance, sense of taste, sense of smell, sense of touch					
XV week lectures	Anatomy and physiology of birds and poultry					
XV week exercises	Egg formation and structure					
Student workload	Weekly 4+2) 6 credits x 40/30= 8 hours Structure: 4 hours of lectures 2 hours of exercise 2 hours of individual student work including consultation During the semester Teaching and the final exam: 8 hours x16 weeks= 128 hours. Necessary preparation (before semester administration, enrollment and verification): 2 x 8 hours = 16 hours. Total hours for the course: 6 x 30 = 180 hours. Additional work to prepare the corrective final exam, including the exam taking 0 do 36 hours Structure: 128 hours (lectures)+16 hours (preparation)+36 hours (additional work)					
Per week			Per semester			
6 credits x 40/30=8 hours and 0 minuts 4 sat(a) theoretical classes 2 sat(a) practical classes 0 excercises 2 hour(s) i 0 minuts of independent work, including consultations			Classes and final exam: 8 hour(s) i 0 minuts x 16 =128 hour(s) i 0 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 8 hour(s) i 0 minuts x 2 =16 hour(s) i 0 minuts Total workload for the subject: 6 x 30=180 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 36 hour(s) i 0 minuts Workload structure: 128 hour(s) i 0 minuts (cources), 16 hour(s) i 0 minuts (preparation), 36 hour(s) i 0 minuts (additional work)			
Student obligations			The presence of lectures and exercises, doing the Colloquiums, seminar papers			
Consultations			Two hours during the week in agreement with students after lectures			
Literature			1. Žikić D., Ušćebrka G., Stojanović S.:Morfologija životinja – Poljoprivredni fakultet, Novi Sad 2016. 2. Šijački, N., Pantić – Jablan, O., Pantić, V.: Morfologija domaćih životinja. Naučna knjiga, Beograd 1998; 3. Simić, V., Janković, Ž.: Anatomski atlas domaćih sisara. Veterinarski fakultet Beograd, 1987.; 4. Stojić V.: Veterinarska fiziologija, Naučna KMD d.o.o. Beograd, 2010.			
Examination methods			Active participation in lectures and exercises 5 points - Seminar work, etc. 5 points - Two colloquiums of 20 points each – 40 points; Colloquiums are taken in writing. The number of questions on the colloquium is 20 (1 question: 1 point). The duration of the colloquium is 60 minutes. If the student takes a corrective colloquium, the grade from the corrective colloquium is entered, regardless of the number of points earned on the colloquium. - Final exam 50 points; The final exam is taken orally by drawing a combination of 3 exam questions. - Students receive exam questions in the first lesson. - Material from lectures and exercises is available to students in printed and electronic form. A passing grade is obtained if at least 50 points are accumulated cumulatively. Grade: number of points: A (≥ 90 to 100 points); B (≥ 80 to < 90); C (≥ 70 to < 80); D (≥ 60 to < 70); E (≥ 50 to < 60); F < of 50			
Special remarks						
Comment			Attendance at lectures and exercises is mandatory. A student can be excused for missing a maximum of two lectures and two exercises, and making up the missed lectures and exercises is mandatory. Preparation of colloquiums, seminar papers, etc. is mandatory.			
Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points