

ANATOMY 1

Study program	Veterinary Medicine
Year of study	I
Semester	I
Regime of discipline	DOB
Category of discipline	Dsf
Number of lectures hours per week	2
Number of seminar/laboratory/project hours per week	3
Total number of hours according to the curriculum: lectures/seminars/laboratory/project	28/42
Number of transferable credits	6

SPECIFIC SKILLS

Professional Competence	<ul style="list-style-type: none"> • C1 - Working with terms, concepts, principles, discipline-specific characteristics, and specific description of the bones, joints and muscles in domestic mammals and birds using anatomic veterinary anatomical nomenclature language. • C 2 - Application of morphological and functional knowledge in recognizing and describing body parts as practical basis for the application of treatments, vaccination and other measures to prevent and combat diseases. • C3 - Using knowledge of the general characteristics and specific features of the locomotor organs to identify bodies controlled and veterinary examination and laboratory analyzes and organoleptic quality and food safety and food. • C5 - Assessment of nutritional status and metabolic harmony with the maintenance, feeding, production, reproduction and animal selection based on morphological and functional peculiarities of domestic animals. • C6 - Identification of functional changes of certain bones and muscle groups for diagnosing dislocations and fractures. Observing animal aplomb and their correlation with osteoarticular diseases.
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LEARNING OUTCOMES

Knowledge	The student describes the complexity of the properties, structure, molecular organization, embryonic development, macroscopic and microscopic structure and cellular, tissue and organismal functioning as a whole; of the cell, tissues, systems and apparatuses of the animal organism and their functioning, in order to achieve clinical correlations.
Skills	The student describes the anatomical characteristics of tissues, organs, apparatuses, systems and the organism as a whole.
Responsibility and autonomy	The student applies, analyzes the implementation and formation of complex concepts regarding biological systems The student identifies the morphology of arteries, veins, lymphatic vessels, nervous system organs, endocrine glands and sense organs in domestic animals, achieving clinical correlations.

COURSE OBJECTIVES

General objective of the course	<ul style="list-style-type: none"> • Knowledge of descriptive, topographical and compared anatomy of the bones, joints and muscles in domestic mammals and birds will provide to the veterinarian a better view about the organization and structure of the animal body, which will allow medical and surgical diseases symptoms interpretation based on knowledge of physiological and pathological mechanisms of appearance.
Specific objectives	<ul style="list-style-type: none"> • To describe the structure and conformation of the skeletal system in domestic mammals and birds; • To describe the structure and conformation of fibrous joints , cartilaginous and synovial; • To analyze in terms of morphology the joints of the head, spine, thorax , thoracic and pelvic limbs in domestic mammals and birds; • To explain the structure and conformation of the in domestic mammals and birds; • To analyze in terms of morphology the muscles of the head, neck, thorax, abdomen, thoracic and pelvic limbs in domestic mammals and birds; • To recognize their basic physical and anatomical regions;

	<ul style="list-style-type: none"> • To identify on the preserved teaching material the bones of the head, spine, chest, abdomen, pelvis, thoracic and pelvic limbs in mammals and poultry using anatomically correct veterinary nomenclature; • To describe the skeletal bones of the domestic mammals and birds, using terms of descriptive and comparative anatomy; • To recognize the teaching material preserved its structure and arrangement of joints in the skeletal system; • To describe the general characteristics of synovial joints : the articular surfaces, joint capsule and ligaments; • To identify on the preserved teaching materials types of joints in domestic mammals after location and specific features; • To recognize the fresh or preserved teaching material, the general characteristics of muscle: origin, termination and role; <p>To recognize the body regions and their anatomical basis on the living animal.</p>
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COURSE CONTENT

LECTURES	Number of hours
Introduction. Anatomical nomenclature. Animal body parts. Skeletal systematization.	2
Osteogenesis. Bone conformation and structure.	2
Syndesmology – generalities. Types of joints. Fibrous, cartilaginous and synovial joints.	2
Joints of the thoracic limb.	2
Joints of the pelvic limb.	2
Joints of the vertebral column, trunk and head.	2
Myology - generalities. Structure and types of muscles.	2
Muscles of the thoracic limb.	2
Muscles of the pelvic limb	2
Muscles of the head and neck.	2
Muscles of the trunk and tail.	2
Body regions.	2
Muscle delimitation on the live animals.	2
Static and dynamic of the animals.	
SEMINAR/LABORATORY	Number of hours
Veterinary nomenclature. The bones of the thoracic girdle and stylopodium in the domestic mammals and birds.	3
The bones of the thoracic zeugopodium and autopodium in the domestic mammals and birds.	3
The bones of the pelvic girdle and stylopodium in the domestic mammals and birds.	3
The bones of the pelvic zeugopodium and autopodium in the domestic mammals and birds.	3
The bones of the vertebral column, ribs and sternum in the domestic mammals and birds.	3
The bones of the head – generalities.	3
Specie-specific features of the head.	3
Joints of the limbs.	3
Joints of the head, neck and trunk.	3
Muscles of the thoracic limbs – dissections.	3
Muscles of the pelvic limbs – dissections.	3
Muscles of the head and neck – dissections.	3
Muscles of the trunk – dissections.	3
Body regions and muscle delimitation on the live animals.	3

BIBLIOGRAPHY:

1. Pentea, M., Moşneang, C., Hulea, C., Crăciun I. – Atlas of veterinary osteology, Ed. Brumar, ISBN 978-973-726-182-0.
2. H.E. König, H.G. Liebiech (2014) – Veterinary Anatomy of the domestic mammals, Ed. Schattauer.
3. K.M. Dyce, W.O. Sack, C.J.G. Wensing – Textbook of veterinary Anatomy, Saunders Elsevier.
4. R. Barone (1984, 1990) – Anatomie compare des mammifères domestiques, Tome 3, 4, Ed. Vigot.
5. R. Nickel, A. Schummer, E. Seiferle (1986) – Lehrbuch der Anatomie des Haustiere, Band 3, 4, Verlag Paul Parey.

ASSESSMENT

Activity type	Assessment criteria	Assessment methods	Percentage of final grade
Lectures	Using anatomically correct nomenclature; Demonstration of coherent thinking, logic, the statement of ideas or principles of descriptive and compared anatomy of the vascular and lymphatic system. Knowledge of basic concepts of descriptive and compared anatomy of the nervous system.	Summative evaluation, Exam - oral assessment	60%
Seminar/laboratory/clinical sessions	Applying knowledge in providing descriptions of vascular, lymphatic and nervous systems in the domestic mammals and birds; Integrating knowledge of angiology and nervous system in anatomy descriptive and comparative approach in the domestic mammals.	Summative assessment - practical oral exam assessment.	40%
Other activities			

Course coordinator: S. Lect. PhD. Crina BIRDA

Practical activities coordinator L/S/P: S. Lect. PhD. Crina BIRDA