

## ANATOMY 2

|                                                                                                    |                     |
|----------------------------------------------------------------------------------------------------|---------------------|
| <b>Study program</b>                                                                               | Veterinary Medicine |
| <b>Year of study</b>                                                                               | I                   |
| <b>Semester</b>                                                                                    | II                  |
| <b>Regime of discipline</b>                                                                        | DOB                 |
| <b>Category of discipline</b>                                                                      | Dsf                 |
| <b>Number of lectures hours per week</b>                                                           | 2                   |
| <b>Number of seminar/laboratory/project hours per week</b>                                         | 3                   |
| <b>Total number of hours according to the curriculum:<br/>lectures/seminars/laboratory/project</b> | 28/42               |
| <b>Number of transferable credits</b>                                                              | 5                   |

### SPECIFIC SKILLS

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Professional Competence</b> | <ul style="list-style-type: none"> <li>• C1- Working with terms, concepts, principles, discipline-specific characteristics of the digestive, respiratory and urogenital organs of the domestic mammals and birds using veterinary medicine language and veterinary anatomy nomenclature.</li> <li>• C 2 - Acquiring theoretical and practical knowledge of the organs that belong to digestive, respiratory and urogenital apparatus of the domestic mammals and birds in order to apply treatments, vaccination, and other measures to prevent and combat diseases.</li> <li>• C3 - Knowing the general characteristics and specific features of organs that belong to digestive, respiratory in order to identify the organs which are controlled and examined in through laboratory analyzes and organoleptic quality of the food safety.</li> <li>• C5 – The knowledge of organs in domestic mammals and birds that will allow accurate assessment of nutritional status and metabolic and according to the principles of maintenance, feeding, production, reproduction and animal selection.</li> <li>• C6 - Identifying functional changes of certain organs and topographical organ projection-clinical anatomy of the domestic mammals and birds for future pictures and injections.</li> </ul> |
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### LEARNING OUTCOMES

|                                    |                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Knowledge</b>                   | 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. |
| <b>Skills</b>                      | The student describes the anatomical characteristics of tissues, organs, apparatuses, systems and the organism as a whole.                                                                                                                                                                                                                                 |
| <b>Responsibility and autonomy</b> | The student applies, analyzes the implementation and formation of complex concepts regarding biological systems The student identifies the organs in domestic animals, achieving clinical correlations.                                                                                                                                                    |

### COURSE OBJECTIVES

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General objective of the course</b> | Knowledge of descriptive and comparative anatomy of the organs in the domestic mammals and birds which allow to the future veterinarian understanding and interpretation of medical and surgical disease symptoms based on knowledge of physiological and pathological mechanisms.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Specific objectives</b>             | <ul style="list-style-type: none"> <li>• To describe the organs of domestic animals and birds;</li> <li>• To describe the organs special particularities of domestic animals and birds;</li> <li>• To recognize on the fresh or preserved specimens the general characteristics of the organs in the domestic mammals and birds;</li> <li>• To analyze topographically the organs in the thoracic and abdominal cavity in domestic animals and birds;</li> <li>• To identify on the fresh or preserved specimens the digestive apparatus organs in the domestic mammals and birds;</li> <li>• To identify on the fresh or preserved specimens the respiratory apparatus organs in the domestic mammals and birds;</li> <li>• To identify on the fresh or preserved specimens the urogenital apparatus organs in the domestic mammals and birds;</li> </ul> |

## COURSE CONTENT

| LECTURES                                                                                                                                 | Number of hours |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Splanchnology – generalities. Splanchnic cavities of the body. Oral cavity - general and specific features.                              | 2               |
| Tongue-generalities and specie-specific features. Salivary glands - general and specific features. Teeth - general and specific features | 2               |
| Pharynx - generalities and specie-specific features. Esophagus - general and specific features. Stomach-general. Simple stomach.         | 2               |
| Complex stomach.                                                                                                                         | 2               |
| Intestine – generalities and specie-specific features.                                                                                   | 2               |
| Liver. Pancreas. Spleen.                                                                                                                 | 2               |
| Respiratory system -generalities. Nose, nostrils and nasal cavities. Paranasal sinuses, general and specific features.                   | 2               |
| Larynx-general and specific features. Trachea and bronchi. Lungs - general and specific features.                                        | 2               |
| Urinary organs – generalities and specie-specific features.                                                                              | 2               |
| Male genitals organs- generalities. Testicular investments. Testicle and epididymis- specie-specific generalities and particularities.   | 2               |
| Accessory genital glands. The penis and prepuce - generalities and specie-specific features.                                             | 2               |
| Female genitals organs – generalities and specie-specific features. Mammary gland.                                                       | 2               |
| Splanchnology of the domestic birds.                                                                                                     | 2               |
| The topography of the organs from the thoracic and abdominal cavities on the living animals.                                             |                 |
| SEMINAR/LABORATORY                                                                                                                       | Number of hours |
| Oral cavity - general and specie-specific features. Tongue-generalities and specie-specific features.                                    | 3               |
| Salivary glands – generalities and specie-specific features. Teeth – generalities. Morphology of the teeth and specific features         | 3               |
| Pharynx - general and specific features. Esophagus - general and specific features. Stomach-general. Simple stomach.                     | 3               |
| Complex stomach.                                                                                                                         | 3               |
| Intestine – generalities and specie-specific features.                                                                                   | 3               |
| Liver. Pancreas. Spleen.                                                                                                                 | 3               |
| Respiratory system -generalities. Nose, nostrils and nasal cavities. Paranasal sinuses, general and specific features.                   | 3               |
| Larynx-general and specific features. Trachea and bronchi. Lungs - general and specific features.                                        | 3               |
| Urinary organs – generalities and specie-specific features.                                                                              | 3               |
| Male genitals organs- generalities. Testicular investments. Testicle and epididymis- specie-specific generalities and particularities.   | 3               |
| Accessory genital glands. The penis and prepuce - generalities and specie-specific features.                                             | 3               |
| Female genitals organs – generalities and specie-specific features. Mammary gland.                                                       | 3               |
| Splanchnology of the domestic birds.                                                                                                     | 3               |
| The topography of the organs from the thoracic and abdominal cavities on the living animals.                                             | 3               |

### BIBLIOGRAPHY:

1. H.E. König, H.G. Liebiech (2014) – Veterinary Anatomy of the domestic mammals, Ed. Schattauer.
2. R. Barone (1996) – Anatomie compare des mammifères domestiques, Tome 5, 6, 7, Ed. Vigot.
3. K.M. Dyce, W.O. Sack, C.J.G. Wensing – Textbook of veterinary Anatomy, Saunders Elsevier.

### ASSESSMENT

| Activity type   | Assessment criteria                                                                                                            | Assessment methods                              | Percentage of final grade |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------|
| <b>Lectures</b> | Using anatomically correct nomenclature.<br>Demonstration of coherent thinking, logic, the statement of ideas or principles of | Summative evaluation,<br>Exam - oral assessment | 60%                       |

|                                             |                                                                                                                                                             |                                                        |     |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----|
|                                             | topographical anatomy in the domestic mammals.<br>Knowledge of basic concepts of descriptive and compared anatomy of the endocrine glands and sense organs. |                                                        |     |
| <b>Seminar/laboratory/clinical sessions</b> | Applying knowledge in providing descriptions of digestive, respiratory and urogenital organs in the domestic mammals and birds.                             | Summative assessment - practical oral exam assessment. | 40% |
| <b>Other activities</b>                     |                                                                                                                                                             |                                                        |     |

**Course coordinator: S. Lect. PhD. Crina-Laura BIRDA**

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