SYLLABUS

1. Course title:

ANATOMY AND PHYSIOLOGY OF DOMESTIC ANIMALS

2. Code:

3. Cycle of study:

1

4. ECTS credits:

5

5. Type of course:

(•) Mandatory ( ) Elective

6. Prerequisites:

No prerequisites

7. Class restrictions:

No class restrictions

8. Duration / semester:

1 5

9. Weekly contact hours:

9.1. Lectures:	2
9.2. Seminars:	0
9.3. Laboratory/Practice classes:	2

10. Faculty:

Faculty of Technology

11. Department/study program:

Agronomy

12. Lecturer:

Edina Hajdarević, Ph.D. assistant professor

13. Lecturer's e-mail:

edina.hajdarevic@untz.ba

14. Web site:

www.tf.untz.ba

15. Course aims:

The aim of the study of this course is to:
- learn the anatomical and functional characteristics of the animal cell and the individual tissues of the animal organism.
- acquire of knowledge on the anatomy of skeletons of domestic animals, and understand the role of muscle and bone and their connection in locomotion of domestic animals.
- learn the anatomy and physics of individual organic systems of domestic animals.
- understand the comparative anatomy and physiology of domestic animals.
- understand the mechanisms of functioning of all systems and processes in the organism of domestic animals in order to obtain the necessary basis for understanding the reproductive and production processes of domestic animals.

16. Learning outcomes:

After the successful completion of the learning process, the student is expected to know, understand and be able to:
- distinguish the histological material of certain tissues;
- to distinguish between the skeleton of domestic animals;
- to distinguish the structure and function of individual organs and organic systems in domestic animals;
- to establish the similarities and differences in the structure and function of the same organic systems in different groups of domestic animals;
- to establish similarities and differences in the anatomy and physiology of different organs and organic systems of domestic animals;

17. Course content:

LECTURES:
The basics of cytology; The basics of animal histology. Anatomical names and body areas. Bone system. Muscular system. Probative system and physiology of digestion. Respiratory system. Urogenital-sex system. Circulatory system. Nervous system. Sensory organs. Skin and skin creations. Body heat and thermoregulation. Endocrine glands. Basics of anatomy and physiology of poultry.

CONTENT OF EXERCISES:
Oocyte fishes, mammalian skin; Skeletal, cardiac and smooth muscle tissue; Blood smear of mammals. Artery and vein structure; Spinal cord and small brain of pigs. Anatomical structure of the brain; The thyroid gland, liver and spleen of pigs. Mammalian Kidney and the female dog ovary; Bone tissue. Skeleton of a bird and skeleton of a man; Fish Anatomy; Anatomy of the eye and the heart of cattle; Physiological solvents; Creation of blood smear and differential blood vessel; Trias (temperature, pulse, breathing, borax contraction). Determination of blood pressure; Wailing in paramecium and snail. Characteristics and composition of cattle; Meat and milk.

18. Learning methods:

The methods of learning in the course are:
- Lectures using multimedia resources, active learning techniques and with active participation and discussion of students;
- Preparation and presentation of group and individual seminar papers.
- Laboratory exercises

19. Assessment methods:

After half of the semester (in the 8th week), students write a test (first test), which includes previously treated topics from lectures. The test consists of multiple choice tasks, simple retrieval tasks or essay tasks, and images / schemes of a particular organ or organic system. The student can score up to 15 points in the first test.
In the 13th week of the semester, students write a test (second test), which includes previously treated lectures and topics from the second part of the semester. The test consists of multiple choice tasks, simple retrieval tasks or essay tasks, and images / schemes of a particular organ or organic system. The student can score up to 15 points in the second test. All students take both tests on the subject at the same time, thereby achieving uniformity of the level of knowledge that is being tested, as well as the conditions under which the student takes the exam. As part of the pre-requisites, students are required to prepare individual or group seminar work that will cover a specific topic from the content of the course. The seminar paper is submitted in writing and reviewed and then presented orally. All group students participate in the creation and presentation of group seminar work, and their participation is valued individually. For completed and presented seminar work, the student can achieve 0 to 5 points. A practical exam is organized at the end of the semester. The maximum number of points a student can earn on a practical exam is 10 points. For continuous activity and presence in lectures and exercises throughout the semester, student can achieve 0 to 5 points. The final exam is written. All students have the right to go to the final exam. At the final exam, students receive 9 questions and 1 image of the organ or the organic system. Each question and image carries 5 points. The maximum number of points a student can achieve on the final exam is 50. The minimum number of points on the final exam is 25.
In order for a student to pass a course, they must have a minimum of 54 points, of which at least 25 on the final exam.

20. Assessment components:

The assessment of the exam is based on the total number of points the student has obtained by fulfilling the pre-requisites and passing the exam and is determined according to the following scale:

Student obligations	Points
Presence and activity at classes	5
Seminar paper	5
Practical Exam	10
Mini tests	30
Total prerequisites	50
Final Exam	50

21. Required reading list:

1. Bogut, I., Grbavac, J., Florijančić, T. (2001): „Anatomija i fiziologija domaćih životinja“. Mostar, Sveučilište; Osijek, Sveučilište J.J. Strossmayer.
2. Stojić, V., (1999): „Veterinarska fiziologija“, II izmijenjeno i dopunjeno izdanje, Naučna knjiga, Beograd.

22. Web sources:

23. Applicable starting from the academic year:

2016/2017

24. Adopted in the Faculty/Academy session: