

SYLLABUS

1. Course title:

ZOOLOGY

2. Code:**3. Cycle of study:****4. ECTS credits:****5. Type of course:** Mandatory Elective**6. Prerequisites:**

No prerequisites

7. Class restrictions:

No class restrictions

8. Duration / semester:**9. Weekly contact hours:**

9.1. Lectures:

3

9.2. Seminars:

0

9.3. Laboratory/Practice classes:

2

10. Faculty:

Faculty of Technology

11. Department/study program:

Agronomy

12. Lecturer:

Avdul Adrović, associate professor

13. Lecturer's e-mail:

avdul.adrovic@untz.ba

14. Web site:

15. Course aims:

The aim of the Zoology course is to introduce students with diversity, biology and ecology, and evolutionary mechanisms that have led to the diversity of animal groups and their classification. The aim of the course is to train students to identify animal taxon, their structure and functions, as well as the recognition of concepts from general zoology, in order to successfully work with animals and to study their role in contact with man and their significance to man.

16. Learning outcomes:

At the end of the semester students will acquire: a) academic knowledge of morphology, anatomy, physiology, reproduction and biodiversity of mentioned animal groups; b) applied knowledge about economically the most harmful and beneficial species, their interrelationships; knowledge of the interactions of these relations with the influence of anthropogenic factors; c) independence in decision-making and carrying out activities within the integral plant protection, while maintaining the diversity of useful and other species and groups in agrobiocenosis.

17. Course content:

Definition of Zoology; Zoology development; Nature philosophy; Life and difference between plants, animals and humans; Size, shape and symmetry of animals; Cytology and histology; Organology. Skin, support and muscular system; Respiration. Circulation; digestion; Excretion; Endocrine System; Nervous system; Receptor system; Reproductive system.

Reproduction; Other functional properties of animals. Ethology; Ecology; Evolution. Systematics. Protista, Protozoa Metazoa. Animalia - Spongia and Cnidaria. Platyhelminthes. Pseudocoelomata, Nematoda. Coelomata, Mollusca, Annelida, Arthropoda, Chelicerata and Crustacea, Insecta. Echinoderma, Chordata, Vertebrata. Gnathostomata, Chondrichthyes and Osteichthyes. Amphibia, Reptilia, Chelonia. Squamata. Reptilia, Crocodile. Aves Palaeognathae, Neognathae, Mammalia, Prototheria and Metatheria (Marsupialia), Eutheria (Placentalia). Mammalia, Primates, Lagomorpha, Rodentia, Carnivora, Cetacea and Pinnipedia, Proboscidea. Perissodactyla, Artiodactyla.

18. Learning methods:

Theoretical and practical lessons in combination with interactive lessons will be applied in all teaching chapters of subjects in varying degrees. Testing follows the completion of the first two chapters (mammals and birds). Before passing an oral exam, the student may choose to do the seminar or to take a colloquy at his or her choice. The topic of the seminar work is the student selection from any course unit, with the consent of the professor.

19. Assessment methods:

There will be evaluated:

- pre-requisites:
- attendance up to 5 points,
- student activity during lecture and in laboratory up to 5 points and
- colloquium up to 15 points.
- Test I (in the 6th week of the semester) up to 10 points;
- Test II (in the 12th week of the semester) up to 10 points;
- Seminar work up to 5 points and

Testing obligations:

- Final exam up to 50 points.

At student's request and also upon the decision of the subject teacher, an oral examination can be arranged in the final examination of the knowledge.

A total of 54 points are required to complete the exam.

20. Assessment components:

Number of points scored	Rating (BiH)	(ECTS)
<54,00	5	F
54,00-63,00	6	E
64,00-73,00	7	D
74,00-83,00	8	C
84,00-93,00	9	B
94,00-100	10	A

21. Required reading list:

1. Treer T, Tucak Z. (2004): Agrarna zoologija. Školska knjiga, Zagreb.
2. Matonićkin, I. Erben, R. Habdija, I. (1983): Praktikum iz opće zoologije. Sveučilište u Zagrebu, Zagreb.

22. Web sources:

<http://www.zoology.msu.edu/online-courses.html>
<http://zoology.wisc.edu/courses/courselist.htm>
<http://www.zoo.ox.ac.uk/>

23. Applicable starting from the academic year:

2016/2017.

24. Adopted in the Faculty/Academy session: