

## SYLLABUS

**1. Course title:**

ANIMAL ETHOLOGY

**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:

2

9.2. Seminars:

0

9.3. Laboratory/Practice classes:

1

**10. Faculty:**

Faculty of Technology

**11. Department/study program:**

Agronomy

**12. Lecturer:**

Isat Skenderović, associate professor

**13. Lecturer's e-mail:**

isat.skenderovic@untz.ba

**14. Web site:**

www.tf.untz.ba

**15. Course aims:**

The main objective of this program is to understand nature, patterns and biological factors of behavior of animals and humans. The focus is on the physiological and anatomical basis of the receptor, nerve endocrine and effector system - from the simplest to the most complex forms of individual and social behavior, including tradition, human and animal culture. Such an approach allows the phenomenology of behavior to be argued explained by causal linking to its biological essence.

**16. Learning outcomes:**

The realization of the objectives and tasks of the module contributes to the development of consciousness about the necessity of knowing the complex interaction of genetic, physiological, environmental and general biological factors in ethological expressions of animals and people in a possible life circumstances. This also results in the recognition of general individual and group interdependence of behavior in natural and anthropogenic ecosystems.

**17. Course content:**

Development and areas of biology of animal and human behavior. Patterns of behavior, the behavior of unicellular organisms. Basic principles of behavioral genetics. The physiological-anatomical basis of behavior, the relationship of behavior with the system of information and maintenance of the integrity of the organism. Individual behavior: Instinctive behavior and its patterns. Time and hierarchical organization of instinctive behavior. Development - genetics, ontogenesis and phylogeny of behavior. Rhythms of behavior, orientation in space and migration. Learning and learned behavior. Behavior among individuals: communication and cooperation, agonistic and aggressive behavior - nature and forms. Territoriality. Sexual behavior. Parental behavior. Social Behavior: social communities - open and closed societies. Human societies and sociobiology. Development of connections and relationships in society and socialization. Culture - tradition and "culture" of animals. Association between the species.

**18. Learning methods:**

Teaching methods: theoretical lessons - lectures: PowerPoint presentations and practical lessons - laboratory exercises

**19. Assessment methods:**

During the seminar, a total of 2 tests will be organized after each 10 hours of lectures. Each test is scored with 10 points. By passing the colloquium student can get up to 10 points. Field work and seminar work are scored up to 10 points. Class attendance is scored up to 5 points. Teaching activity is scored up to 5 points. The final test of the knowledge assessment is scored with 50 points.

**20. Assessment components:**

Number of points scored	Rating (BiH)	(ECTS Rating)
<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:**

Hadžiselimović R., Maslić E. (1999): Osnovi etologije – Biologija ponašanja životinja i ljudi. Sarajevo Publishing, Sarajevo.

Drickamer L. C., Vessey S. H., Meikle D. (1996): Animal Behavior – Mechanisms, Ecology, Evolution. McGraw-Hill, New York

**22. Web sources:****23. Applicable starting from the academic year:**

2016/17

**24. Adopted in the Faculty/Academy session:**