

SYLLABUS

1. Course title:

AQUACULTURE

2. Code:**3. Cycle of study:**

1

4. ECTS credits:

4

5. Type of course: Mandatory Elective**6. Prerequisites:**

No prerequisites

7. Class restrictions:

No class restrictions

8. Duration / semester:

1

4

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:

Avdul Adrović, associate professor

13. Lecturer's e-mail:

avdul.adrovic@untz.ba

14. Web site:

<http://www.tf.untz.ba>

15. Course aims:

The aim of the module "Aquaculture" is to introduce students with knowledge in the field of aquaculture of different species of aquatic organisms, needed for independent work in farms.

16. Learning outcomes:

Students acquire knowledge of the basics of aquaculture, breeding types and methods of farm management, food for aquatic organisms and food types. Students acquire the scientific basis necessary for proper management of the farm (salmon cultures, cypress cultures, fish health control, basic knowledge of the metabolism of the breeding organisms, choice of breeding sites).

17. Course content:

General terms in aquaculture. Fishponds, lagoons, river basins and cages. Principles of water exploitation for aquaculture. Fish farming in fishponds. Water as a living environment. Water features intended for use in the pond. Plant and animal life in the pond. Fish feeding. Types of food. Wet and mixed food. Dry food. The fish increment in the pond. Methods to raise the increment. Farming carp fish species. Carp spawning. Natural and controlled carp spawning. Farming herbivorous fish species. Herbivorous species spawning. Spawning of other ciprinid species of salmon cultures. Spawning and insemination of Californian trout. Consumable trout growing. Perch spawning. Catfish spawning. Consumable fish breeding. Cage fish breeding. Mariculture and nutrition of marine fish. Breeding of seabass. Shellfish growing. Fish diseases. Invertebrates growing.

18. Learning methods:

Lectures with the use of video material - PowerPoint presentation.

Laboratory exercises thematically follow the lectures. During exercises, students learn the basics of salmoniculture, Warm-water aquaculture and other forms of aquaculture. Visit to fishponds.

19. Assessment methods:

It is evaluated:

prerequisites:

attendance at classes up to 5 points,

activity of students during lectures and in the laboratories up to 5 points and

colloquium up to 15 bodova.

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;

Exam duties:

Final exam up to 50 points.

At the 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 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:

1. Treer T. i sur. (1995): Ribarstvo (poglavlje Akvakultura). Nakladni zavod Globus, Zagreb.
2. Marković Z. Tutundžić Vera (2003): Gajenje riba. Zadužbina Andrejević.
3. Aganović M. (1979): Salmonidne vrste riba i njihov uzgoj Svjetlost, Sarajevo.

22. Web sources:

kzr.agrobiologie.cz/natural/.../akvakultura.htm

23. Applicable starting from the academic year:

2016/2017.

24. Adopted in the Faculty/Academy session: