Course Unit Descriptor

Study Programme: Animal Science

Course Unit Title: Basics of Agri-Environmental Management

Course Unit Code: ANM047

Name of Lecturer(s): Prof. Vesna O. Rodić; Ass. prof. Jelena J. Despotović

Type and Level of Studies: Undergraduate academic studies

Course Status (compulsory/elective): elective

Semester (winter/summer): winter

Language of instruction: English

Mode of course unit delivery (face-to-face/distance learning): face-to-face

Number of ECTS Allocated: 6

Prerequisites: -

Course Aims: In contemporary conditions, intensive agriculture increasingly endangers the environment. Instead of being a stimulating factor, the environment increasingly becomes a barrier to development. The goal of the course is to enable students, future decision-makers, to recognize the connections between agriculture and the environment, to introduce them to the causes, sources, types, and forms of environmental threats, as well as measures and actions of economically acceptable protection measures.

Learning Outcomes: After passing this course exam, students understand the importance and need for sustainable development. They are able to holistically see the interdependence of agricultural production and the environment, and organize sustainable, i.e. economically, ecologically, and socially acceptable production.

Syllabus:

Theory - Introduction; Basic ecological problems of modern society; Causes of the contemporary environmental crisis; Natural resources - concept and classification; Resource management problems in less developed countries; Concept of sustainable development; Interdependence of agriculture and the environment; Agricultural production as a polluter of the environment; Strategies for reducing negative impact; Ecologically and economically acceptable systems of agricultural production; Environmental monitoring; Institutional frameworks and environmental protection measures; Management instruments in the field of environmental protection; Legal aspects of the environmental protection.
Practice - Exercises take place through (team) seminar work and active participation of students in discussions on selected topics. The topics are adapted to the student's interests and correspond to current issues in this field. Possible topics include - Global development goals; Causes and consequences of climate change; Local environmental problems; Public participation in the environmental decision-making process; Impact assessment; Environmental awareness; The importance of applying standards in environmental management; Importance and possibilities of recycling; Agriculture as a source of energy; Manure management; Organic production as an environmentally acceptable production system.

Required Reading:

1. Rodić, Vesna (2022): Management of the environment and natural resources, PDF reader available free of charge for students to monitor classes and prepare for the exam;
2. Jonathan M Harris; Brian Roach (2022): Environmental and Natural Resource Economics : A Contemporary Approach - International Student Edition, Taylor & Francis Ltd
3. Jeffrey Sachs, Ki-mun Pan (2015):The age of sustainable development, Columbia University Press, New York, 2015
4. Steinfeld, H., Gerber, P., Wassenaar, T. D., Castel, V., De Haan, C.: Livestock's Long Shadow: Environmental Issues and Options, Food & Agriculture Org, 2006.

Weekly Contact Hours:	**Lectures:** 2	**Practical work:** 2

Teaching Methods: Traditional lectures based on Power Point presentations, seminar papers, discussion groups

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points
Active class participation	10	written exam	-
Practical work	10	oral exam	55
Preliminary exam(s)	15	…….	
Seminar(s)	10		