COURSE OUTLINE

1. GENERAL

60110.01					
SCHOOL	AGRICULTURAL SCIENCES				
ACADEMIC UNIT	ANIMAL PRODUCTION, FISHERIES & AQUACULTURE				
LEVEL OF STUDIES	UNDERGRADUATE				
COURSE CODE	AS_305		SEMESTER 3 th		
COURSE TITLE	ECOLOGY				
INDEPENDENT TEACHING ACTIVITIES if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits			WEEKLY TEACHING HOURS		CREDITS
(the credits are awarded for the whole course)		3		4	
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).					
COURSE TYPE	Special background				
general background, special background, specialised general knowledge, skills development					
PREREQUISITE COURSES:	NO				
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek. Teaching may be performed in English in case of foreign students				
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes				
COURSE WEBSITE (URL)					

2. LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area
- Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B
- Guidelines for writing Learning Outcomes

By the end of this course the student will be able to:

- demonstrate knowledge of the relationships between animals and their environment and the adaptions of animals to different or changing environments;
- summarize mechanisms that drive developments of animal populations;
- identify the role of animals in food webs;
- apply simple mathematical models on animal ecology;

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and Project planning and management information, with the use of the necessary technology

Adapting to new situations	Respect for difference and multiculturalism				
Decision-making	Respect for the natural environment				
Working independently	Showing social, professional and ethical responsibility and sensitivity to gender issues				
Team work	sensitivity to gender issues				
Working in an international environment Working in an interdisciplinary environment Production of new research ideas	Criticism and self-criticism Production of free, creative and inductive thinking				
	Others				
Respect for the natural environment					
Criticism and self-criticism					
Production of free, creative and inductive thinking					
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3. SYLLABUS

Introduction to Ecology. Ecology of the individual: organisms in their environment, adaptations. Populations: population characteristics, mortality, fertility, population growth, metapopulations, competition, hunting, vegetarianism and special adaptations of plants and herbivorous insects, abundance regulation, biological resource management, pest management. Biocommunities and ecosystems: characteristics of biocommunities, primary productivity, secondary productivity, biogeochemical recycling, ecological succession, environmental pollution. Molecular ecology. Ecological research methods: population size determination, sample size estimation, experimental design and sampling standards.

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY Face-to-face, Distance learning, etc.	Face to face. During the course, students are asked to wr bibliography project	ite and present a brief		
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY Use of ICT in teaching, laboratory education, communication with students	 Use of ICT (powerpoint) in teaching Use of ICT in Student Communication (Learning Support through the e- class platform) 			
TEACHING METHODS	Activity	Semester workload		
The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.	Lectures	39		
	Writing project	25		
	Private study time of the students for the lab preparation and final examination	33		
	Final examination	3		
The student's study hours for each learning activity are given as well as	Course total	100		
the hours of non-directed study according to the principles of the ECTS				
STUDENT PERFORMANCE EVALUATION	Greek language is used. For foreign students (e.g. Erasmus students) it can be done in English			
Description of the evaluation procedure Language of evaluation,	1. Written final exam (A)			

methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer	2. Individual work (B) 3. Exercise (C)
questions, open-ended questions, problem solving, written work, essay/report, oral examination,	Each case is graded on a scale of 0-10
public presentation, laboratory work, clinical examination of patient, art interpretation, other	Final grade (FG): FG = 0.5A + 0.25B + 0.25C
Specifically-defined evaluation criteria are given, and if and where they are accessible to students.	Minimum passing grade: 5 (Grade: 0-10)

5. ATTACHED BIBLIOGRAPHY

Odum E.P. 1975. Ecology. Holt-Saunders Publs. pp.244.