COURSE OUTLINE

(1) GENERAL INFORMATION

FACULTY / SCHOOL	MARITIME AND INDUSTRIAL STUDIES				
DEPARTMENT	MARITIME STUDIES				
LEVEL OF STUDY	UNDERGRADUATE				
COURSE UNIT CODE	NA208	SEM	MESTER 2		
COURSE TITLE	Marine Ecology				
INSTRUCTOR'S NAME	Assistant Professor Anastasia Christodoulou				
INDEPENDENT TEACHING ACTIVITIES in case credits are awarded for separate components/parts of the course, e.g. in lectures, laboratory exercises, etc. If credits are awarded for the entire course, give the weekly teaching hours and the total credits		TEA	EEKLY CHING DURS	CREDITS	
				4	6
Add rows if necessary. The organization of teaching and the teaching methods used are described in detail under section 4					
COURSE TYPE Background knowledge, Scientific expertise, General knowledge, Skills development,	Background knowledg	e			
PREREQUISITE COURSES:					
LANGUAGE OF INTRODUCTION:	Greek				
LANGUAGE OF					
EXAMINATION/ASSESSMENT:					
THE COURSE IS OFFERED TO					
ERASMUS STUDENTS:					
COURSE WEBSITE (URL):	eclass.unipi.gr				

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate (certain) level, which students will acquire upon successful completion of the course, are described in detail.

It is necessary to consult:

APPENDIX A

- Description of the level of learning outcomes for each level of study, in accordance with the European Higher Education Qualifications' Framework.
- Descriptive indicators for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and

APPENDIX B

Guidelines for writing Learning Outcomes

Upon completion of the course, students should be able to:

- Describe the basic components of marine ecosystems, including the biotic and abiotic factors that influence them.
- Assess the impact of human activities, such as pollution, overfishing, and climate change on marine ecosystems.
- Apply methods for the sustainable extraction and use of marine resources, considering environmental, social, and economic impacts.
- Analyze the policies and governance frameworks related to marine resources and sustainable development.
- Interpret the principles of blue growth and evaluate opportunities for sustainable economic development through the use of marine resources.

General Competences

Taking into consideration the general competences that students/graduates must acquire (as those are described in the Diploma Supplement and are mentioned below), at which of the following does the course attendance aim?

Search for, analysis and synthesis of data and information by the use of appropriate

technologies,

Adapting to new situations

Decision-making

Individual/Independent work

Group/Team work

Working in an international environment

Working in an international environment
Working in an interdisciplinary environment

Introduction of innovative research

Project planning and management Respect for diversity and multiculturalism

Environmental awareness

Social, professional and ethical responsibility and

sensitivity to gender issues

Critical thinking

Development of free , creative and inductive thinking

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(Other.....citizenship, spiritual freedom, social awareness,

altruism, etc.)

- Search for, analysis and synthesis of data and information by the use of appropriate technologies
- Adapting to new situations
- Individual/Independent work
- Group/Team work
- Working in an international environment
- Working in an interdisciplinary environment
- Environmental awareness
- Critical thinking
- Development of free, creative and inductive thinking

(3) COURSE CONTENT

- Introduction to marine ecosystems (definition and significance)
- Major threats to marine ecosystems: Pollution, overfishing, climate change
- Eutrophication
- Climate change and marine ecosystems
- Pollution from ships (atmospheric and marine)
- Sustainable management of marine resources: Strategies for sustainable use, legislation, and policy frameworks
- Ecosystem-based management approach
- Marine Protected Areas (MPAs)
- Sustainable fisheries
- Economic dimensions of sustainable marine resource management (Blue Economy)
- Marine governance: Role of governments and international organizations

(4) TEACHING METHODS – ASSESSMENT

The study hours for each learning activity as well

MODES OF DELIVERY Face-to-face, in-class lecturing, distance teaching and distance learning, etc.	Face-to-face	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY Use of ICT in teaching, Laboratory Education, Communication with Students	Use of ICT in teaching and c Students	ommunication with
COURSE DESIGN Description of teaching techniques, practices and	Activity/Method	Semester workload
Description of teaching techniques, practices and methods:	Activity/Method Lectures	Semester workload 52
Description of teaching techniques, practices and	,.	

as the hours of self-study are given following the principles of ECTS. STUDENT PERFORMANCE a) Class participation, assignments, case studies, **EVALUATION/ASSESSMENT** exercises (20%) **METHODS** b) Written examinations (80%): A final written exam Detailed description of the evaluation procedures: Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice tests, short-answer questions, openended questions, problem solving, written work, essay/report, oral exam, presentation, laboratory work, other....,etc. Specifically defined evaluation criteria are stated, as well as if and where they are accessible by the students (5) SUGGESTED BIBLIOGRAPHY - Suggested bibliography: ■ Θαλάσσια Βιολογία, Levinton Jeffrey S., Broken Hill Publishers Ltd. Course slides Selected academic articles - Related scientific journals: Transportation Research Part D Marine Policy Marine Pollution Bulletin Ocean and Coastal Management