COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Technology		
ACADEMIC UNIT	Department of Environmental Sciences		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	**AE703**	**SEMESTER**	**7th**
COURSE TITLE	**COASTAL ECOSYSTEMS MANAGEMENT**		
INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**CREDITS**	
Teaching Hours	4	4	
COURSE TYPE	Specialised general knowledge		
PREREQUISITE COURSES	None		
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No		
COURSE WEBSITE (URL)	https://eclass.uth.gr/courses/ENV_U_134		

(2) LEARNING OUTCOMES

Learning outcomes

The course covers many different thematic modules dealing with the ecology of coastal ecosystems and provides an essential core knowledge component for issues related to Integrated Coastal Zone Management. Specifically, it aims to foster students' knowledge of biology and promote their familiarization with ecology and management issues, placing an emphasis on the coastal marine environment.

Upon successful completion of the course, students will have acquired the necessary knowledge, skills and competence, and will be able to:

- Delve into the effects of anthropogenic activities on the coastal environment.
- Assess the ecological situation in coastal ecosystems and the quality of bathing waters.
- Comprehend the policy for the development of Marine Protected Areas as tools for the protection of biodiversity and endangered species as well as the implementation of sustainable development with an emphasis on the Mediterranean.

General Competences

- Search for, analysis and synthesis of data and information, with the use of the necessary technology
- Decision-making
- Working independently
- Teamwork
- Respect for the natural environment
- Criticism and self-criticism
- Production of free, creative and inductive thinking

(3) SYLLABUS

- Protected species and habitats in the coastal and marine environment.
- Water Framework Directive 2000/60 & ecological indicators.
- Ecology of planktonic organisms in coastal aquatic ecosystems.
- The modern approach to ecology: from standards to processes.
- The protection and management of coastal zone ecosystems.
- Maritime strategy in the Mediterranean environment.
- Marine spatial planning.

(4) TEACHING and LEARNING METHODS – EVALUATION

<table>
<tr><td>DELIVERY</td><td>Face-to-face</td></tr>
<tr><td>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</td><td>• Use of PowerPoint slides
• View material in video
• Communication with students via e-mail
• Use of asynchronous distance learning (e-class)</td></tr>
<tr><td>TEACHING METHODS</td><td>
<table>
<tr><th>Activity</th><th>Semester workload</th></tr>
<tr><td>Lectures</td><td>39</td></tr>
<tr><td>Laboratory practice</td><td>13</td></tr>
<tr><td>Study and analysis of bibliography</td><td>38</td></tr>
<tr><td>Weekly individual reports
assessment of laboratory practice</td><td>10</td></tr>
<tr><td>Course total
(25 hours workload per credit)</td><td>100</td></tr>
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<tr><td>STUDENT PERFORMANCE EVALUATION</td><td>Students' performance is evaluated in the Greek language. The final grade is determined by:
• A written examination (at the end of the semester) that forms of 70% the final score, including some of the following assessment methods: Multiple Choice questions, Short Answer questions, Problem-solving.
• Elaboration of an individual written assignment (in the 2nd half of the semester) which constitutes 30% of the final score. The individual assignment may be presented by the student in class.
Final Grade = 70% Exam Grade + 30% Assignment Grade</td></tr>
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(5) ATTACHED BIBLIOGRAPHY

- Chintiroglou, C.H., Antoniadou, C.H., Vafidis, D., Koutsoubas, D. (2005) *Biota of the Sea Bed: Zoobenthos: Hard Substrate Communities*. In Papathanasiou, V., Zenetos, A. (eds) *State of the Hellenic Marine Environment*, Chapter VI, VI.5, 247 – 254. Anavissos: HCMR Publications.
- Koutsoumbas, D. (2005) *Marine Biodiversity and Sustainable Development in the Mediterranean as axes for Environmental Education.* In Kayla, M., Theodoropoulou, E., Dimitriou, A., Xanthakou, G., Anastasatos, N. (eds) *Environmental Education, Research Data and Educational Design*, Chapter 8.3., 448 – 465. Athens: Atrapos Editions. (in Greek)
- Thessalou – Legaki, M., Legakis, A. (2005) *Conservation of the Hellenic Marine Biodiversity*. In Papathanasiou, V., Zenetos, A. (eds) *State of the Hellenic Marine Environment*, Chapter VI, VI.5, 260 – 270. Anavissos: HCMR Publications.