

COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Environment		
ACADEMIC UNIT	Department of Environment		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	223KEY	SEMESTER	8 th
COURSE TITLE	Environmental Impact Assessment		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDITS
Lectures		3	
Exercises		3	
Total credits			6
COURSE TYPE	Skills development course		
PREREQUISITE COURSES:	<ul style="list-style-type: none"> • Environmental Law • Introduction to Environmental Engineering • Introduction to Ecology 		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Hellenic		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	no		
COURSE WEBSITE (URL)	https://www.env.aegean.gr/studies/undergraduate-degree/curriculum/environmental-impact-assessment/		

(2) LEARNING OUTCOMES

Learning outcomes
<p>The aim of the course is to utilize the knowledge that students acquire in the specialized (focused) courses of the individual components of environmental issues. Upon completion of the course, students should be able to approach a project following a typical methodology of environmental impact assessment. Skills more widely needed by the professional Environmentalist regardless of his / her possible involvement in the field of Environmental Impact Assessment.</p> <p>In particular, the methodological and institutional framework governing of preparation and approval of EIA are given. Students are trained in data retrieval and reporting, in identifying critical points of environmental interest, in evaluating alternatives and in searching for suggested solutions - environmental measures. The environmentally integrated (holistic) perception is practically applied.</p>
General Competences
<ul style="list-style-type: none"> • Search, analysis and synthesis of data and information, using the necessary technologies • Decision making • Teamwork • Work in an interdisciplinary environment • Respect for the natural environment

(3) SYLLABUS

<p>The course is structured in 13 weeks with a three-hour theory, a three-hour workshop to support weekly exercises:</p> <ol style="list-style-type: none"> 1. Course objectives and structure. Basic concepts and environmental impact assessment as an essential necessity but also as legal compliance. 2. Typical flow - stages in Environmental Impact Assessment. Categorization of projects based on institutional framework and differences in the process.

3. Understanding of the proposed project. Understanding the technical description of projects or general interventions (spatial / development plans).
4. Outline and cartographic backgrounds of the study area. Search for sources and extract information from online sources.
5. Description of the project environment (intervention). Search for sources of information. Capture of environmental parameters (geosphere, hydrosphere, atmosphere, biosphere) and existing pressures (human population, activities, infrastructure & networks).
6. Continuation of 5 & Special Ecological Assessment.
7. Relation of project with environment. Study of typical cases to determine potential effects.
8. Continuation of 7 with case studies.
9. Measures to deal with expected effects. Provisions of legislation per case.
10. Strategic Environmental Assessment. Transition from project level to macro scale.
11. Impact minimization design during the preliminary planning phase. Case study: Landfill location siting.
12. Alternative planning scenarios and evaluation based on environmental and economic-technical criteria.
13. Transfer of professional experience in the field of consultancy services. Presentation by visiting professional consultant.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	Students have access to all lectures, lecture notes, assignments and related material through the MOODLE platform (https://aegeanmoodle.aegean.gr/)	
TEACHING METHODS	Activity	Semester workload
	Lectures	39
	Tutorials	39
	Assignments	25
	Study hours	50
	Course total	153
STUDENT PERFORMANCE EVALUATION	Language of assessment: Hellenic Assessment methods: <ul style="list-style-type: none"> • Weekly Exercises (60% of the grade) • Final examination on the review of an Environmental Impact Study (40% of the grade) 	

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

- Εκτίμηση Περιβαλλοντικών Επιπτώσεων, Κούγκολος Αθανάσιος, Καραθανάσης Σταύρος, | ΕΚΔΟΣΕΙΣ ΤΖΙΟΛΑ, 2021
- Μελέτες Περιβαλλοντικών Επιπτώσεων , Θεωρία και Εφαρμογές, Βαγιωνά Δήμητρα | ΕΚΔΟΣΕΙΣ ΔΙΣΙΓΜΑ, 2018
- Νομοθεσία για την Προστασία του Περιβάλλοντος, Μελέτες Περιβαλλοντικών Επιπτώσεων, Κούγκολος Αθανάσιος, Σαμολαδά Μαρία | ΕΚΔΟΣΕΙΣ ΤΖΙΟΛΑ, 2017
- Λογιστική Αειφόρου Επίδοσης Επιχειρήσεων, Νικολάου Ιωάννης, Ευαγγελινός Κωνσταντίνος | ΕΚΔΟΣΕΙΣ ΔΙΣΙΓΜΑ, 2020