

715. Environmental Impact Assessment

Instructor: Stergios Tampekis

1. GENERAL

FACULTY		PLANT SCIENCES		
DEPARTMENT		FORESTRY AND NATURAL ENVIRONMENT MANAGEMENT		
LEVEL OF STUDY		Undergraduate		
COURSE CODE		715	SEMESTER OF STUDY 7pd	
COURSE TITLE		Forest Roads Planning and Management		
INDEPENDENT TEACHING ACTIVITIES			TEACHING WEEKS	CREDITS
Lectures			2	5
Laboratory exercises			2	
Total Course			4	
COURSE TYPE		Special Background or Core Course		
PREREQUISITE COURSES:		No		
LANGUAGE OF INSTRUCTION AND EXAMINATIONS:		Greek		
THE COURSE IS OFFERED TO ERASMUS STUDENTS		No		
COURSE WEBSITE (URL)		https://oeclass.aua.gr/eclass/courses/		

2. LEARNING OUTCOMES

Learning Outcomes
<p>The subject of the course is:</p> <p>The process of assessing the potential environmental impacts of a proposed project, taking into account the interrelated socio-environmental, economic, cultural and human health impacts, both beneficial and adverse.</p> <p>Aim of the course</p> <p>Theory</p> <p>The aim of the course is to understand issues for the evaluation of the positive and negative environmental, economic and social impacts of a project. This will be achieved through the use of geoinformatics which will contribute to predicting the environmental impact of a project at the planning stage itself, so that decisions can be made to reduce negative impacts.</p> <p>Labs</p> <p>Attendance is mandatory in laboratory courses.</p> <p>The laboratory exercises aim to familiarize students with the evaluation of environmental impacts based on new methodologies and tools.</p>

As part of the course, it is expected that students be able to:

- know the criteria for choosing the best method for impact assessment, an overview of methods and parameters for the technique of public participation in drafting objections.
- understand the integrated spatial planning and management
- develop the ability of Problem-Solving skills
- apply the technologies of Geographical Information Systems

General skills

- Search, analyze and synthesize data and information, using the necessary technologies.
- Problem solving skills
- Decision-making
- Autonomous work
- Teamwork
- Working in an interdisciplinary environment
- Respect for the natural environment
- Promoting free, creative and inductive thinking
- Utilization of new technologies in decision making.

3. SYLLABUS

The material per week of the course - in theory and corresponding laboratory exercises - reads as follows:

Theory:

N/A NOT CONTENT OF THE TEACHING UNIT (DE)

- The institutional framework for environmental protection in Greece
- Stages of preparation of preliminary studies & environmental impact studies of road construction projects
- Basic modules of environmental impact of road construction projects
- Land uses – natural & anthropogenic ecosystems
- Decision making systems
- Socio-ecological systems
- Resilience

4. TEACHING AND LEARNING METHODS – ASSESSMENT

DELIVERY METHOD	In the hall, in the Laboratory and adjacent to the facilities of the Department forests and woodlands.	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Use PowerPoint slides, use physical maps, communicate with students via video conferences, Open eClass, email, and telephone. Meetings with students per person to answer questions and prepare laboratory exercises.	
TEACHING ORGANIZATION	Activity	Semester Workload
	Lectures	39
	Laboratory Exercises	26

	Work	12
	Study personal	48
	Total course	125
STUDENT EVALUATION	I. Written final exam in the theory of the course. II. Answering multiple-choice questions II. Written or oral examination in the laboratory part of the course. III. The exam includes the development of equally graded development questions, or the resolution of exercises announced to students at the beginning of the course. The examination criteria are explicitly mentioned, especially in the laboratory part. The relevant information can be found in the University's eClass	

5. RECOMMENDED-BIBLIOGRAPHY

Suggested Bibliography:

1 Kougulos A. (2021) Environmental Impact Assessment, Ed. Giola 904 pp.

Related scientific journals:

-Journal of Environmental Management, Elsevier