COURSE OUTLINE

1. GENERAL

SCHOOL	APPLIED SCIENCES		
DEPARTMENT	ENVIRONMENTAL ENGINEERING		
LEVEL OF STUDY	Undergraduate		
COURSE UNIT CODE	**GE5740**	**SEMESTER OF STUDY**	7°
COURSE TITLE	ENVIRONMENTAL IMPACT ASSESSMENT		

COURSEWORK BREAKDOWN	**TEACHING WEEKLY HOURS**	**ECTS Credits**
Lectures, Laboratory Exercises	5	5

COURSE UNIT TYPE	SC: Specialization Courses
PREREQUISITES :	
LANGUAGE OF INSTRUCTION/EXAMS:	Greek
COURSE DELIVERED TO ERASMUS STUDENTS	
MODULE WEB PAGE (URL)	http://geope.teikoz.gr/undergraduate/ug_studies.htm

2. LEARNING OUTCOMES

Learning Outcomes

On successful completion of this module the learner will be able to:
The course aims to provide the necessary knowledge for the elaboration of environmental consequences in the geotechnical and mining projects. The outcomes comprehends:

1. Assessment of the environmental consequences using evaluation techniques
2. Utilization of environmental indices and follow up techniques of the projects
3. Assessment of EIAs and different solutions to the same problems
4. Comprehension of EU and National legislation and its relative conflicts

General Skills

Upon successful completion of the programme students will:

- have the basic theoretical and practical knowledge in the fields of the subject area of Geotechnology and Environmental Engineering

- be able to properly apply the theoretical and practical knowledge acquired during the study period

- be able to cover a wide spectrum of scientific and technical knowledge related to mining and geotechnical projects as well as the sector of environmental reclamation

- have gained the necessary competencies to proceed to their second cycle study

3. COURSE CONTENTS

Introduction, EU and National legislation, necessity for the implementation of environmental consequences analysis. EIAs in Greece, Provision and assessment of Environmental Consequences, Evaluation methods, Geotechnical and mining Works stages (Study, Operation, Land Reclamation). Environmental Indices and methodologies for environmental control, Assessment of different solutions in the projects, classification and evaluation techniques, Legislation and conflicts among different players (society, industry and state). Examples from the EU and Hellenic reality.

4. TEACHING METHODS - ASSESSMENT

MODE OF DELIVERY	Face-to-face
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY	
TEACHING METHODS	

Method description	***Semester Workload***
Theory	60
Laboratory Exercises	40
Total of lessons	***100***

ASSESSMENT METHODS	I. Lab and/or Project Work (40%) II. End of Semester Formal Examination (60%)

5. RESOURCES

- Recommended Book Resources:

- Recommended Article/Paper Resources:

1. Konstantinos I. Vatalis (2010). Sustainable Management- Environmental Impact Assesssment on Works ISBN: 978-960-99197-0-8.
2. Allan Gilppin (1995). Environmental Impact Assessment (EIA)-Cutting edge for the Twenty-First Century Cambridge Univerity Press, 1995, UK.
3. Canter, L.W. (1996). Environmental Impact Assessment, Mc Graw Hill Intern. editions ISBN: 0-07-009767-4
4. McAllister, D.M. (1982). Evaluation in Environmental planning. Assessing environmental, social, economic and political trade-offs. MIT press.