Course Title	Environmental Impact: Legislation and Standards						
Course Code	MEER502						
Course Type	Elective						
Level	Masters (2 nd Level)						
Year / Semester	1 st year/ 2 nd semester or 2 nd year/ 3 rd semester						
Teacher's Name	Dr. Christos Anastasiou						
ECTS	10	Lectures / week	3	Laboratories/week	0		
Course Purpose	This course is designed to introduce students to a systematic process for						
	predicting and evaluating the significant environmental consequences of a						
	proposed project, action, or other undertaking.						
	The process of environmental impact assessment has been applied primarily						
	to new infrastructure projects, such as power plants, highways, pipelines,						
	dams, mines, airports, incinerators, and landfills. Assessment processes						
	have also been used to consider the implications of new technologies, plans,						
	and policies that may result in significant social, economic, and biophysical						
	effects.						
	This course focuses on environmental assessment processes, what they are						
	meant to accomplish, and how they are designed or should be designed to						
	be effective, efficient, and fair.						
	The course is designed so that it can impart to students the essential skills						
	that will allow them to critically read and evaluate, review and begin to conduct						
	impact assessments to balance and integrate environmental, social and						
	economic needs						
	During the course, emphasis is placed on practical aspects (internationally						
	used approaches), and the implementation of European Directives as well as						
	National Legislation and Standards.						
Looming	Du the and a	of the course study	nto must ha				
Quitcomos	By the end of the course, students must be able to:						
Outcomes	technol	and the basic c	of an Enviro	nmental Impact Asse	esmont		
	2 Identify		or an Envire	s National Codes an	d Standards		
	concerr	ing FIA (and espe	cially as thi	s relates to the envir	conment and		
	3 Exhibit I	knowledge and unc	lerstanding	of the way that an FIA	is conducted		
	within the framework of the energy sector in Cyprus and in the EU						
	4 Coordinate an Environmental Impact Assessment including						
	4. Coordinate an Environmental impact Assessment, including						

	a. Selecting team-members, and					
	b. Outlining the key issues to be addressed (scoping).					
Prerequisites	Prior taught experience on environmental Corequisites None					
	issues or instructor's approval					
Course Content	. Basic Concepts					
	 Basic concept of EIA : Initial environmental Examination 					
	- Elements of EIA					
	 Factors affecting EIA Impact evaluation and analysis 					
	 Preparation of Environmental Base map 					
	 Classification of environmental parameters. 					
	2. EIA Methodological Approaches					
	 EIA Methodologies: introduction 					
	 Criteria for the selection of EIA Methodology 					
	- EIA Methods					
	 predictive methods 					
	 environmental risk assessment 					
	- economic methods					
	3. Technical Components of Environmental Impact Assessment					
	 Basic concepts pertaining to an EIA for Surface & Ground Water and the Marine environment Air 					
	- Soils					
	 Fauna and Flora Impact prediction Assessment of Impact significance Identification and Incorporation of Mitigation Measures 					
	4. Procedures and Law					
	- Environmental Impact Assessment Process in the European / Cyprus					
	Context					
	 Roles and Responsibilities of Groups Involved in the EIA System 					
	- Laws and Regulatory Frameworks for Environmental Impact					
	Assessment					
	 European Union Directives 					
	 National Laws and Standards 					
	5. Synthesis and Case Applications					
	(this module is interspersed throughout the duration of the course)					

	 Case studies 					
	- Preparation of an (preliminary) Environmental Impact Assessment for					
	activities in the energy sector					
Teaching	The course will be presented through theoretical lectures in class. The					
Methodology	lectures will present to the student the course content and allow for questions.					
	The material will be delivered using visual aids (e.g. PowerPoint presentation					
	slides, documentaries). The aim is to familiarize the student with the material					
	at a faster pace of presentation, while allowing the instructor to use the					
	presented material for meaningful discussions.					
	The learning process will be enhanced with the requirement from the student					
	to carry in-class discussions and tackling of hypothetical scenarios in small-					
	group exercises.					
	In-class case-studies are an integral part of this course.					
	Homework assignments / mini projects, which will be required as part of the					
	students' assessment for the course, will allow students the opportunity to					
	carry out independent research, synthesize basic concepts presented in					
	class, as well as hone their analytical, writing and presentation skills.					
	Besides from the notes taken by students in class, all of the course material					
	will be made available through the class website which will be available					
	through the University's E-learning platform.					
	The instructor will be available to students during office hours or by					
	appointment in order to provide necessary guidance.					
Bibliography	Textbook:					
	Anji Reddy Mareddy. (2017). Environmental Impact Assessment: Theory					
	and Practice. But-terworth-Heinemann. ISBN 9780128111390.					
	References:					
	1. J. Glasson, R. Therivel, and A. Chadwick. (2005). Introduction to					
	Environmental Impact Assessment, 3rd edition. Routledge					
	2. Leonard Ortolano. (1997). Environmental Regulation and Impact					
	Assessment. John Wiley					
	3. Larry W. Canter. (1995). Environmental Impact Assessment. McGraw-					
	4. European Commission Environment: Environmental Impact					
	Assessment. http://ec.europa.eu/environment/eia/home.htm					
	5. European Commission Environment: Energy and environment.					
	http://ec.europa.eu/environment/integration/energy/index_en.htm					

Assessment	Assignments (two assignments / mini proje	20%	
	Midterm Exam	30%	
	Final Exam (comprehensive)	50%	
Language	English and Greek		