

Course unit title:	Environmental Impact Assessment		
Course unit code:	CESU430		
Type of course unit:	Compulsory (for Specialization in Sustainable Construction)		
Level of course unit:	Bachelor (1st Cycle)		
Year of study:	4		
Semester when the unit is delivered:	8 (Spring)		
Number of ECTS credits allocated :	6		
Name of lecturer(s):	Dr Christos Anastasiou		
Aim of the Course	The aim of the course is to help students understand the importance of considering the possible environmental impacts that civil engineering projects may bring about, and introduce them to the legal framework and the procedure for completing an environmental impact study. Emphasis will be placed on the methodological approaches commonly used for identifying, evaluating, and mitigating environmental impacts in the built environment.		
Learning outcomes of the course unit:	<ul style="list-style-type: none"> • Understand the basic concepts, methodological approaches, and technological components of an Environmental Impact Assessment • Identify all applicable European Norms, National Codes and Standards concerning the environment and sustainable development • Exhibit knowledge and understanding of the way that an EIA is conducted within the framework of the energy sector in Cyprus and in the EU • Coordinate an Environmental Impact Assessment, including team-building and scoping of a project. 		
Mode of delivery:	Face-to-face		
Prerequisites:		Co-requisites:	None
Course contents:	<p>Module A - Basic Concepts</p> <ul style="list-style-type: none"> • Basic concept of EIA • Elements of EIA • Factors affecting EIA Impact evaluation and analysis • Preparation of Baseline studies <p>Module B - Procedures and Law</p> <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> ○ European Union Directives ○ National Laws and Standards <p>Module C - Technical Components of Environmental Impact Assessment</p> <ul style="list-style-type: none"> • Impact prediction • Assessment of Impact significance • Identification and Incorporation of mitigation measures <p>Module D - EIA Methodological Approaches</p> <ul style="list-style-type: none"> • EIA Methodologies: introduction • Criteria for the selection of EIA Methodology • EIA Methods <ul style="list-style-type: none"> ○ predictive methods ○ environmental risk assessment ○ economic methods 		

Recommended and/or required reading:	
Textbooks:	<ul style="list-style-type: none"> • Environmental Impact Assessment, Larry W. Canter, McGraw-Hill Pub., 1995
References:	<ul style="list-style-type: none"> • European Commission Environment: Environmental Impact Assessment. http://ec.europa.eu/environment/eia/home.htm • European Commission Environment: Energy and environment. http://ec.europa.eu/environment/integration/energy/index_en.htm • An extensive reading list of relevant academic research papers.
Planned learning activities and teaching methods:	<p>The course is presented through theoretical lectures in class. The lectures present to the student the course content and allow for questions. The material is presented using visual aids (i.e. PowerPoint presentation slides, documentaries, etc.). The aim is to familiarize the student with the different and faster pace of presentation and also allow the instructor to present related material that would otherwise be very difficult to do. The learning process is enhanced with the requirement from the student to carry in-class discussions and tackling of hypothetical scenarios in small-group exercises. Homework Assignments, which are required as part of the students assessment for the course, allows students the opportunity to carry out independent work, synthesize basic concepts presented in class, as well as hone their writing and presentation skills. Besides from the notes taken by students in class, all of the course material is made available through the class website which is available through the University's E-learning platform ("Moodle"). The instructor is available to students during office hours or by appointment in order to provide necessary guidance.</p>
Assessment methods and criteria:	<ul style="list-style-type: none"> • Midterm Exams: 40% • Assignments: 10% • Final Exam 50%
Language of instruction:	English
Work placement(s):	No