Course unit title:	Sustainable Construction Technology
Course unit code:	CE235
Type of course unit:	Compulsory
Level of course unit:	Bachelor (1st Cycle)
Year of study:	2
Semester when the	4 (Spring)
unit is delivered:	_
Number of ECTS credits allocated :	5
Name of lecturer(s):	Dr. Christos Anastasiou
Learning outcomes of the course unit:	Identify major problems facing the planet earth and human society.
	Explain the concept of Sustainability, and how building green is good for Cyprus and the World.
	Describe primary components of a sustainable engineering system.
	4. Explain design and construction principles for developing green structures
	5. List roles that a civil engineer has in implementing a sustainable construction/development project
	Perform detailed evaluation of new and existing buildings based on LEED standards
	7. Classify various technologies aimed at achieving global sustainability
Mode of delivery:	Face-to-face
Prerequisites:	None Co-requisites: None
Recommended	None
optional program	
components: Course contents:	MODULE 1 (Introduction to Sustainable Development):
Course contents.	Basic Concepts and Vocabulary (Definitions of Sustainability, Quantification Methods of Sustainability) Ethics and Sustainability Major Environmental and Resource Concerns Defining Sustainable Construction (The Green Building Movement) MODULE 2 (Sustainable Sites):
	 Site Selection Development Density & Community Connectivity Alternative Transportation: Public Transportation Access & facilities Site Development: Open Space Stormwater Design: Quantity & Quality Control MODULE 3 (Water Efficiency):
	 Water Efficient Landscaping Water Efficient Landscaping: No Potable Water Use or No Irrigation Innovative Wastewater Technologies Water Use Reduction MODULE 4 (Energy & Atmosphere):
	 Optimize Energy Performance On-Site Renewable Energy MODULE 5 (Materials & Resources):
	 Storage & Collection of Recyclables Building Reuse Construction Waste Management Materials Reuse

Regional Materials MODULE 6 (Indoor Environmental Quality):		
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Ventilation Low-Emitting Materials (e.g. Adhesives, Sealants, Paints, Coatings, Carpet Systems) Indoor Chemical & Pollutant Source Control Controllability of Systems: Lighting & Thermal Comfort Daylight & Views Recommended and/or required reading: Textbooks: Charles J. Kibert. 2007. Sustainable Construction: Green Building Design and Delivery, 2™ Edition. John Wiley & Sons, ISBN 978-0-470-11421-6 References: Planned learning ASHRAE Press. 2006. ASHRAE Greenguide: The Design, Construction, and Operation Of Sustainable Buildings, 2™ Edition. ISBN: 978-1933742076 The course will be presented through theoretical lectures in class. The lectures will present to the student the course content and allow for questions. The material will be 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 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 problem-solving as well as homework exercises (mostly numerical) will allow students to practice their design skills in a controlled setting. A final project, 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 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 to students during office hours or by appointment in order to provide necessary guidance. Assessment Final Exam 50% Final Exam 50%		
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● Final Exam 50% Language of English		
Language of English	methods and criteria:	
		English
	instruction:	
Work placement(s): No	Work placement(s):	No