

Course unit title:	Ethics and legal aspects in engineering		
Course unit code:	CE120		
Type of course unit:	Compulsory		
Level of course unit:	Bachelor (1st Cycle)		
Year of study:	1		
Semester when the unit is delivered:	2		
Number of ECTS credits allocated :	5		
Name of lecturer(s):	Dr. George Michaelides		
Learning outcomes of the course unit:	<ol style="list-style-type: none"> <li>1. Recognize the importance of active participation in professional societies and organizations in professional practice.</li> <li>2. Develop an awareness of the impact of technology and engineering on society, including life safety and environmental issues.</li> <li>3. Describe the societal context of the civil engineering profession.</li> <li>4. Assess the ethical responsibilities of practicing engineers.</li> <li>5. Develop skills for communicating and defending ideas effectively, including oral and written communication and technical report writing skills.</li> </ol>		
Mode of delivery:	Face-to-face		
Prerequisites:	None	Co-requisites:	None
Recommended optional program components:	None		
Course contents:	<ol style="list-style-type: none"> <li>1. Engineering professionalism and ethics</li> <li>2. Engineering law and ethics</li> <li>3. Work relationships- professional behaviour</li> <li>4. Codes of Ethics- basic principles of American codes and review of ETEK (Cyprus Technical Chamber) regulations.</li> <li>5. Case studies related to engineering ethics.</li> <li>6. Working environment ethics</li> <li>7. Professional honesty and commitment to safety.</li> <li>8. Environmental Ethics</li> </ol>		
Recommended and/or required reading:	Magazine articles and Scientific Journals/Periodicals.		
Textbooks:	Mike Martin & Roland Schinzinger, <i>Ethics in Engineering</i> , 4 <sup>th</sup> ed., McGraw-Hill, 2004.		
References:	Deborah G. Johnson, <i>Ethical Issues in Engineering</i> , Prentice Hall, 1990		
Planned learning activities and teaching methods:	The course will be presented through lectures in class. The aim of lectures is to lay down the concepts and explain to students the fundamentals of professional contact and the philosophy and principles of ethics. An important element of the subject is to generate discussions and encourage questions relating to behaviour at or during exercising engineering duties. Part of the material is presented using visual aids (normally in Power Point presentations). Although the course materials (notes presentations etc.) are available, students are strongly encouraged to read the subject textbook as well as to perform their own research on particular aspects or practical applications. Interaction with students is achieved through the class website, and during office hours or by appointment in order to provide any necessary tutoring.		
Assessment			

methods and criteria:	<ul style="list-style-type: none"><li>• Coursework 50%</li><li>• Final Exam 50%</li></ul>
Language of instruction:	English
Work placement(s):	No