

Course unit title:	Industrial Placement				
Course unit code:	CE499				
Type of course unit:	Technical Elective				
Level of course unit:	Bachelor (1 <sup>st</sup> Cycle)				
Year of study:	4				
Semester when the unit is delivered:	7 (Fall), 8 (Spring)				
Number of ECTS credits allocated :	6	Lectures:	N/A	Training: Self study:	Total 160hrs
Name of lecturer(s):	Dr. Christakis Onisiphorou, Dr. Christos Anastasiou, Dr. Petros Christou				
Aim of the Course	To provide students with an opportunity to explore career interests in a work environment through applying knowledge and skills learned at their undergraduate courses and labs.				
Learning outcomes of the course unit:	<p>By the end of this course students should be able to:</p> <ul style="list-style-type: none"> <li>• Apply their knowledge and understanding for developing practical skills, solving problems, conducting investigations, and designing engineering devices and processes.</li> <li>• Understand the use and limitations of materials, computer modelling, engineering processes, equipment, workshop practice, technical literature and information sources.</li> <li>• Recognise the wider, non-technical implications of engineering practice, ethical, environmental, commercial and industrial, and develop team working spirit.</li> <li>• Understand the significance of health and safety regulations and practices, when they practice the trade they study.</li> <li>• Ability to integrate knowledge from different branches, handle complexity in tasks, understand applicable techniques and methods, their limitations and the non-technical implications of engineering practice.</li> <li>• Increase their level of understanding of the applicability of the theoretical content of their study.</li> </ul>				
Mode of delivery:	Face-to-face				
Prerequisites:	None		Co-requisites:	None	
Course contents:	<ul style="list-style-type: none"> <li>• Familiarization with Industrial Processes</li> <li>• Communication with other Engineers</li> <li>• Reading technical manuals and specifications</li> <li>• Familiarization with Software for Specific Applications</li> <li>• Design and Industrial Automation</li> </ul>				

	<ul style="list-style-type: none"> <li>• Problem Solving Techniques</li> <li>• Development of Practical skills</li> <li>• Use of equipment</li> <li>• Keeping engineering record/Log book</li> <li>• Business presentation</li> </ul>
Recommended and/or required reading:	
Textbooks:	<u>Engineering Your Future: The Non-technical Side of Professional Practice in Engineering and Other Technical Fields</u> , S.G. Walesh, ASCE Press, 2 <sup>nd</sup> edition, 2000, 497 p.
References:	J.M.P. Knox, "Conquering Your Engineering Internship: Planning, Getting, And Making The Most Of An Internship Or Co-Op," Moving Average Inc., 2008.
Planned learning activities and teaching methods:	<p>Students are placed in Civil Engineering related Industries/ companies / Service providers, for a 4 month Industrial Training (20 Days of Training). They need to attend the place of work one/two fixed days per week, throughout the semester, and perform the tasks assigned. Students are required to maintain a log-book on a weekly basis, describing the activities performed.</p> <p>At the end of the Practical Training students are also required to submit a final report and perform oral presentation, describing the knowledge and practical experience gained from the Industrial Training.</p> <p>The final assessment of the students is formative and is assured to comply with the subject's expected learning outcomes and the quality of the course.</p>
Assessment methods and criteria:	<ul style="list-style-type: none"> <li>• Professional conduct and Assessment by the assigned lecturer 30%</li> <li>• Technical skills learned (Assessment by the responsible on site technician) 20%</li> <li>• Log-book and Final Report Submission 30%</li> <li>• Oral Presentation 20%</li> </ul>
Language of instruction:	English
Work placement(s):	Yes