

Course Title	Placement - Internship				
Course Code	ME325				
Course Type	Mechanical Elective				
Level	BSc (Level 1)				
Year / Semester	3 rd year (6 th semester) and 4 th year (8 th semester)				
Teacher's Name	Mr. Papamichael Theodoulos				
ECTS	6	Lectures / week	3	Laboratories/week	
Course Purpose	This course aims 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	<p>Upon completion of the placement, students are expected to Improve their engineering skills by i. acquiring further knowledge, ii. Advancing their aptitudes and iii. perfecting their communication skills.</p> <p>Familiarize themselves with the vocational environment of the Mechanical Engineering discipline.</p> <p>Acquire hands-on experience related to the Mechanical Engineering profession, hence integrate smoothly with the work environment.</p> <p>Improve their vocational aptitudes and develop professional consciousness.</p> <p>Prepare them for a successful transition from the academic to the work environment, and develop team working spirit.</p> <p>Increase their level of understanding of the applicability of the theoretical content of their study.</p> <p>Understand the significance of health and safety regulations and practices, when they practice the trade they study.</p> <p>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.</p> <p>Apply their knowledge and understanding for developing practical skills, solving problems, conducting investigations, and designing engineering devices and processes.</p> <p>Understand the use and limitations of engineering processes, equipment, workshop practice, technical literature and information sources.</p> <p>Recognise the wider, non-technical implications of engineering practice, ethical, environmental, commercial and industrial.</p>				
Prerequisites	None		Corequisites	None	
Course Content	The students are expected to:				

	<p>Work in a company that operates in the area of Mechanical Engineering.</p> <p>Perform the Mechanical Engineering duties they are assigned.</p> <p>Complete a logbook and a calendar of the daily tasks they perform.</p> <p>Make a record of all the decisions they took and their reasoning.</p> <p>Familiarization with Industrial Processes</p> <p>Communication with other Engineers</p> <p>Reading technical manuals and specifications</p> <p>Familiarization with Software for Specific Applications</p> <p>Design and Industrial Automation</p> <p>Problem Solving Techniques</p> <p>Development of Practical skills</p> <p>Use of equipment</p> <p>Business presentation</p>
Teaching Methodology	<p>Continuous monitoring of the students by the supervisor (mentor) of the partner organization.</p> <p>Weekly contact of the students with their academic supervisor.</p> <p>Students should complete the logbook using information from the library and manuals available in the partner organization. The information in the logbook should be detailed and self-contained.</p> <p>Students are assessed continuously and their acquired knowledge is checked through an oral presentation where they present what they have accomplished.</p>
Bibliography	<p>(a) Textbooks:</p> <p>Engineering Your Future: The Non-technical Side of Professional Practice in Engineering and Other Technical Fields, S.G. Walesh, ASCE Press, 2nd edition, 2000, 497 p.</p> <p>(b) References:</p> <p>All books, manuals and journals related to the internship.</p>
Assessment	<p>Technical skills learned (Evaluation by the supervisor of the partner organization) 30%.</p> <p>Evaluation of the logbook (20%).</p> <p>Evaluation by academic supervisor:</p> <p>Professional conduct and Assessment (30%).</p> <p>Oral Presentation 20%</p>
Language	Greek and English