

Course unit title:	Placement - Internship		
Course unit code:	ME325		
Type of course unit:	Mechanical Elective		
Level of course unit:	Bachelor		
Year of study:	3 or 4		
Semester when the unit is delivered:	6 or 8		
Number of ECTS credits allocated :	6, (144 hours)		
Name of lecturer(s):	Mr. Papamichael Theodoulos		
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>Upon completion of the placement, students are expected to</p> <ul style="list-style-type: none"> • Improve their engineering skills by i. acquiring further knowledge, ii. advancing their aptitudes and iii. perfecting their communication skills. • Familiarize themselves with the vocational environment of the Mechanical Engineering discipline. • Acquire hands-on experience related to the Mechanical Engineering profession, hence integrate smoothly with the work environment. • Improve their vocational aptitudes and develop professional consciousness. • Prepare them for a successful transition from the academic to the work environment, and develop team working spirit. • Increase their level of understanding of the applicability of the theoretical content of their study. • Understand the significance of health and safety regulations and practices, when they practice the trade they study. • 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. • Apply their knowledge and understanding for developing practical skills, solving problems, conducting investigations, and designing engineering devices and processes. • Understand the use and limitations of materials, computer modelling, engineering processes, equipment, workshop practice, technical literature and information sources. • Recognise the wider, non-technical implications of engineering practice, ethical, environmental, commercial and industrial. 		
Mode of delivery:			
Prerequisites:	None	Co-requisites:	None
Recommended optional program components:	None		

Course contents:	<p>The students are expected to:</p> <ul style="list-style-type: none"> • Work in a company that operates in the area of Mechanical Engineering. • Perform the Mechanical Engineering duties they are assigned. • Complete a logbook and a calendar of the daily tasks they perform. • Make a record of all the decisions they took and their reasoning. • Familiarization with Industrial Processes • Communication with other Engineers • Reading technical manuals and specifications • Familiarization with Software for Specific Applications • Design and Industrial Automation • Problem Solving Techniques • Development of Practical skills • Use of equipment • Business presentation
Recommended and/or required reading:	All books, manuals and journals related to the internship.
Textbooks:	Engineering Your Future: The Non-technical Side of Professional Practice in Engineering and Other Technical Fields, S.G. Walesh, ASCE Press, 2 nd edition, 2000, 497 p.
References:	All books, manuals and journals related to the internship.
Planned learning activities and teaching methods:	<ul style="list-style-type: none"> • Continuous monitoring of the students by the supervisor (mentor) of the partner organization. • Weekly contact of the students with their academic supervisor. • 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. • Students are assessed continuously and their acquired knowledge is checked through an oral presentation where they present what they have accomplished.
Assessment methods and criteria:	<ul style="list-style-type: none"> • Technical skills learned (Evaluation by the supervisor of the partner organization) 30%. • Evaluation of the logbook (20%). • Evaluation by academic supervisor: Professional conduct and Assessment (30%). Oral Presentation 20%
Language of instruction:	Greek and English
Work placement(s):	Yes