

AEEE470 - Industrial Placement in Electrical Engineering

Course Title	Industrial Placement in Electrical Engineering				
Course Code	AEEE470				
Course Type	Technical Elective				
Level	BSc (Level 1)				
Year / Semester	3 or 4				
Teacher's Name	Prof Christos Themistos, Dr Marios Lestas, Dr Nicholas Christofides and Dr Alexis Polycarpou				
ECTS	6	Lectures / week	3	Laboratories / week	
Course Purpose and Objectives	The aim of the course is 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>By the end of this course students should be able to:</p> <ul style="list-style-type: none"> • 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, and develop team working spirit. • 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. • Increase their level of understanding of the applicability of the theoretical content of their study. 				
Prerequisites	None	Required	None		
Course Content	<ul style="list-style-type: none"> • 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 				

	<ul style="list-style-type: none"> • Keeping engineering record/Log book • Business presentation
Teaching Methodology	<p>Students are placed in Electrical Engineering related Industries/ companies / Service providers, for a 4 month (one academic semester) Industrial Placement (1-2 days per week).</p> <p>They need to attend the place of work one fixed days per week, throughout the semester, and perform the tasks assigned by the responsible on site technician.</p> <p>Students are required to complete a log-book on a weekly basis, describing the activities performed.</p> <p>At the end of the Industrial Placement students are also required to submit a final report and perform oral presentation, describing the knowledge and practical experience gained from the Industrial Placement.</p>
Bibliography	<p>Textbook</p> <ul style="list-style-type: none"> • J.M.P. Knox, “Conquering Your Engineering Internship: Planning, Getting, And Making The Most Of An Internship Or Co-Op,” Moving Average Inc., 2008. <p>References</p> <ul style="list-style-type: none"> • L. Lundquist, “Industrial Electrical Troubleshooting (Electrical Trades S),” 1st Ed, Cengage Learning, 1999
Assessment	<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. The Assessment is distributed as follows:</p> <ul style="list-style-type: none"> • Professional conduct and Assessment by the assigned lecturer 35% • Technical skills learned (Assessment by the responsible on site technician) 15% • Log-book and Final Report Submission 30% • Oral Presentation 20%
Language	English