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| Course unit title: | Industrial Placement in Electrical Engineering | | | | |
| Course unit code: | AEEE470 | | | | |
| Type of course unit: | Technical Elective | | | | |
| Level of course unit: | Bachelor (1 st Cycle) | | | | |
| Year of study: | 4 | | | | |
| Semester when the unit is delivered: | 7 or 8 | | | | |
| Number of ECTS credits allocated : | 6 | Lectures: | N/A | Industrial Placement: Self-study, report, log book, presentation preparation: | A minimum duration of 150 hrs is required. |
| Name of lecturer(s): | Dr Marios Lestas, Dr Nicholas Christofides, Dr Alexis Polycarpou, Dr Christos Themistos and Dr Antonis Papadakis | | | | |
| 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"> • 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. | | | | |
| Mode of delivery: | Work Placement | | | | |
| Prerequisites: | None | Co-requisites: | None | | |
| Course contents: | Familiarization with Industrial Processes | | | | |

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| | <p>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 Keeping engineering record/Log book Business presentation</p> |
| Recommended and/or required reading: | |
| Textbooks: | J.M.P. Knox, "Conquering Your Engineering Internship: Planning, Getting, And Making The Most Of An Internship Or Co-Op," Moving Average Inc., 2008. |
| References: | L. Lundquist, "Industrial Electrical Troubleshooting (Electrical Trades S)," 1st Ed, Cengage Learning, 1999 |
| Planned learning activities and teaching methods: | <p>Students are placed in Electrical Engineering related Industries/ companies / Service providers, for a 4 month (one academic semester) Industrial Placement.</p> <p>They need to attend the place of work one or two 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> <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"> • 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 of instruction: | English |
| Work placement(s): | Yes |