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| Course unit title:                                | Research Techniques for Thesis Preparation   |                |      |
| Course unit code:                                 | AU 410   |                |      |
| Type of course unit:                              | Compulsory   |                |      |
| Level of course unit:                             | Bachelor (1st Cycle)   |                |      |
| Year of study:                                    | 4  |                |      |
| Semester when the unit is delivered:              | 7 (Fall)   |                |      |
| Number of ECTS credits allocated :                | 6  |                |      |
| Name of lecturer(s):                              | Dr. George Karagiorgis   |                |      |
| Learning outcomes of the course unit:             | <ol style="list-style-type: none"> <li>1. Distinguish the research areas and topics of interest of the department</li> <li>2. Choose a project topic.</li> <li>3. Clarify the overall requirements of a successful project.</li> <li>4. Collect information on a topic which will most probably form the foundation of the senior project.</li> <li>5. Apply the Departmental Style Guide and the information it conveys. Use the Style Guide effectively.</li> <li>6. Construct a preliminary report based on the literature survey conducted and on the methodology evaluated</li> </ol> |                |      |
| Mode of delivery:                                 | Face-to-face   |                |      |
| Prerequisites:                                    | None   | Co-requisites: | None |
| Recommended optional program components:          | None   |                |      |
| Course contents:                                  | <ul style="list-style-type: none"> <li>● <b>Research topics:</b><br/>The various research topics of the Mechanical engineering department.</li> <li>● <b>Report Elements:</b><br/>Plagiarism, referencing, writing style, literature reviewing, content structure, figures and tables and numbering systems</li> <li>● <b>Report structure:</b><br/>Components of a report. Te Departmental Style Guide.</li> <li>● <b>Literature survey:</b><br/>Disciplines in electrical engineering. Literature survey on a topic, the foundations of a senior project.</li> </ul>                     |                |      |
| Recommended and/or required reading:              |  |                |      |
| Textbooks:  | <ul style="list-style-type: none"> <li>● Writing up your university assignments and research projects: A practical handbook, N. Murrey, G. Hughes, 2008.</li> <li>● Carrie Hannigan, Carrie Wells, Carolyn Stevenson, Tanya Peterson, Diane Martinez, "Technical Writing: A Resource for Technical Writers at All Levels", Kaplan Publishing, 2008.</li> </ul>   |                |      |
| References:                                       | <ul style="list-style-type: none"> <li>● Doing Your Early Years Research Project: A Step by Step Guide, G. Roberts-Holmes, Paul Chapman Publishing, 2005</li> </ul>  |                |      |
| Planned learning activities and teaching methods: | Students are advised about the requirements of the course through lectures (3 hours per week) in classrooms. Students will be urged to decide upon a topic and find a project supervisor who will remain their supervisor throughout the duration of the senior project as   |                |      |

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|                                  | <p>well.</p> <p>Project topics will be available to students to choose from, however, should any student have a specific topic that he would like to study, he is free to propose it to any member of staff with whom he would discuss further details.</p> <p>Students will be shown examples of previous successful projects, will be guided through the procedure for completing a project, will be given tips and be shown various tools for proper and efficient use of MS office programs</p> |
| Assessment methods and criteria: | Report 100%   |
| Language of instruction:         | English   |
| Work placement(s):               | No  |