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| Course Title | Master Thesis II: Thesis Implementation and presentation | | | | |
| Course Code | MED510 | | | | |
| Course Type | Compulsory | | | | |
| Level | Masters (2 nd Level) | | | | |
| Year / Semester | 2 nd year / Fall Semester | | | | |
| Teacher's Name | | | | | |
| ECTS | 20 | Lectures / week | - | Laboratories/week | - |
| Course Purpose | The course purpose is to teach and train the students of how to search relative to the project information by using existing data-bases, decide about an innovative project, formulate it and provide a solution based on theoretical considerations and experimental results, whereas is possible. | | | | |
| Learning Outcomes | <p>By the end of the course, students must be able to:</p> <ol style="list-style-type: none"> 1. State clearly an existing engineering problem. 2. Perform extensive literature review in order to find what has been done on the subject by other scientists. 3. Identify the project which will provide a solution to the existing engineering problem by introducing an innovation. 4. Divide the project in several distinct Work Packages which contain different Tasks in a timetable, towards the successful completion of the project. 5. Execute the theoretical and experimental work according to the timetable and Write the Mid-Term Overview report. 6. Write the final report presenting all the theoretical and experimental work, including the methodology used, the results, the final conclusions and future suggestions. | | | | |
| Prerequisites | MED509 | | Corequisites | None | |
| Course Content | <p>Projects may be theoretical, experimental or design projects. In case of group projects each student is assigned specific tasks. Each student has a three-member committee. One of them will be the advisor with whom he meets at least once a week to discuss project progress and future work. Each student is responsible for presenting a final report that will include a detailed design engineering background of the problem, justify design decisions taken, include specifications, calculations and cost assessment where applicable. The student is also responsible to present his work and answer questions orally to the three-member committee.</p> | | | | |

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| Teaching Methodology | <p>The Student is expected to use appropriate analytical, modelling and experimental methodologies for the implementation of the objectives of the Master's project approved by the student's Assessment Committee. The Student is expected to meet regularly with his Thesis Advisor to ensure that the set objectives, methodologies and planning are met.</p> <p>Activities during course:</p> <ul style="list-style-type: none"> - Weekly contact with the advisor - Extensive use of the University and other Electronic Libraries - Extensive use of University's Laboratories and Workshops - Participation in seminars and/or conferences |
| Bibliography | <p>No specific book is assigned. Students are expected to consult a variety of information sources, including textbooks, manuals, scientific and research papers.</p> |
| Assessment | <p>Produce a written Thesis, Oral Presentation of Thesis</p> <p>Assessment Weights:</p> <ul style="list-style-type: none"> • Adequacy of sources consulted: 20% • Design methodology/implementation: 20% • Evaluation methodology: 20% • Presentation and discussion of results: 20% • Oral Presentation of the MSc Thesis: 20% |
| Language | English |