

Course Title	Research Planning (I and II) and Research Proposal				
Course Code	AME701, AME703, and AME704				
Course Type	Compulsory				
Level	PhD (Third Level)				
Year / Semester	3 rd and 4 th Semester (or 1 st and 2 nd if the student is exempted from the Graduate Master's Level Coursework)				
Teacher's Name	Student's Research Advisor (any Teaching and Research Staff member of the Department.)				
ECTS	7	Lectures / week	NA	Laboratories / week	NA
Course Purpose and Objectives	<p>Prior to research engagement, a PhD student is required to convince the academic community that the proposed research is original, innovative and will lead to new scientific knowledge.</p> <p>With the Research Planning I (AME701) course, the student is expected to meet with his/her research advisor regularly, in order to decide on the research problem to be addressed and the proposed research hypothesis. To this end, the student must investigate the current state of knowledge in the research area of the proposed thesis, and decide on the expected contributions of his/her work.</p> <p>The Research Planning II (AME703) is a continuation of the Research Planning I (AME701) course. The coursework of AME703 includes a complete review of the current state of knowledge in the research area of the proposal, the finalization of the Thesis contributions, the methodology to be employed, the expected results and the planning for the implementation of the methodology. Infrastructure requirements and possible ethical issues related to the work of the proposed Thesis must be resolved at this stage.</p> <p>The Research Proposal (AME704) includes the submission of a written report on the coursework of the Research Planning (AME701 and AME703) courses, and an oral presentation of the proposal, in front of the student's Research Advisory Committee.</p>				
Learning Outcomes	Not applicable				
Prerequisites	Completion of the Master's Level Coursework (Prerequisite for AME701) AME701 (Prerequisite for AME703) AME701 and AME702 (Prerequisites for AME704)	Co-requisites	None		

Course Content	Not Applicable
Teaching Methodology	Not Applicable
Bibliography	Not Applicable
Assessment	<p>These are “Pass” / “Fail” courses.</p> <p>AME701: The student is expected to submit a preliminary research proposal report, stating the research problem to be addressed, the motivation and novelty of the research work, and the proposed research hypothesis. The preliminary research proposal is assessed by the student’s Research Advisor.</p> <p>AME703: The student is expected to submit a progress report on the research proposal report, stating the research problem to be addressed, the motivation and novelty of the research work, the proposed research hypothesis, the expected contributions of the proposed work, the methodology to be employed, the expected results and the planning for the implementation of the methodology. This progress report is assessed by the student’s Research Advisor.</p> <p>AME704: The student is expected to submit a final research proposal report. The final Research Proposal Report and the oral presentation are assessed by the student’s Research Advisory Committee. The Research Proposal Report is checked for plagiarism using the tools provided by the electronic learning platform of the University. Information on the procedure followed for the assessment of the research proposal is provided in the “PhD in Mechanical Engineering - Program Regulations”</p> <p>If the student takes the courses AME703 and AME704 concurrently, the progress report of AME703 is replaced by the final research proposal report, and the student is graded with the same grade for both AME703 and AME704. In the case of a failure, the student must repeat only the AME704 course.</p>
Language	English