

Course Title	Senior Project				
Course Code	ME400				
Course Type	Compulsory				
Level	B.Sc (Level 1)				
Year/ Semester	4 <sup>rd</sup> Year / 8 <sup>th</sup> Semester (Spring)				
Teacher's Name	Professor Christodoulos N. Christodoulou				
ECTS	6	Lectures / week	3	Laboratories/week	variable
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	<ol style="list-style-type: none"> <li>1. State clearly an existing engineering problem</li> <li>2. Perform extensive literature review in order to find what has been done on the subject by other scientists</li> <li>3. Identify the project which will provide a solution to the existing engineering problem by introducing an innovation, Divide the project in several distinct Work Packages which contain different Tasks in a timetable, towards the successful completion of the project</li> <li>4. Execute the theoretical and experimental work according to the timetable and Write the Mid-Term Overview report</li> <li>5. Write the final report presenting all the theoretical and experimental work, including the methodology used, the results, the final conclusions and future suggestions</li> </ol>				
Prerequisites	None		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 project 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 mathematical background of the problem, justify design decisions taken, include working drawings, specifications, calculations and cost assessment where applicable. The student is also responsible to present his</p>				

	work and answer questions orally.
Teaching Methodology	<ul style="list-style-type: none"> <li>• Weekly contact with the advisor</li> <li>• Extensive use of the University and other Electronic Libraries</li> <li>• Extensive use of University's Laboratories and Workshops</li> <li>• Participation in seminars and conferences</li> </ul>
Bibliography	<b>Suggested Reading:</b> All relative to the project Books and Journals
Assessment	<ul style="list-style-type: none"> <li>• Produce a written Thesis</li> <li>• Oral Presentation of Thesis</li> </ul>
Language	English