<table>
<tr><td>Course Title</td><td colspan="5">Bachelor Thesis</td></tr>
<tr><td>Course Code</td><td colspan="5">MANS-490</td></tr>
<tr><td>Course Type</td><td colspan="5">Required</td></tr>
<tr><td>Level</td><td colspan="5">1st Cycle</td></tr>
<tr><td>Year / Semester</td><td colspan="5">4th Year, Spring Semester</td></tr>
<tr><td>Teacher’s Name</td><td colspan="5">Captain. Dr. Andreas Frangos</td></tr>
<tr><td rowspan="2">ECTS</td><td rowspan="2">10</td><td>Theory</td><td>Laboratory</td><td>Simulation</td><td>Tutorial</td></tr>
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<tr><td>Course Purpose and Objectives</td><td colspan="5">The main objectives of this course are to:
Teach students important research techniques and practices
Introduce students to practical engineering design
Create the foundation where the students will have the opportunity to utilize theoretical knowledge and engineering tools/techniques acquired throughout the years in order to design, build, and test their idea in a laboratory environment
Promote team work and practical experience in a multi-disciplinary environment
Teach students how to write proper reports and how to present their work in front of their colleagues
Ensure that students know how to properly set up appropriate measurement and troubleshooting procedures including proper use of laboratory equipment
Promote engineering ethics and respect to the environment and society
Teach students how to properly plan their activities in order to successfully achieve their design goals and, more importantly, how to meet their own deadlines</td></tr>
<tr><td>Learning Outcomes</td><td colspan="5">Upon completion of the course students are expected to:
Use research skills on an engineering topic in order to reach a successful design for their project idea
Operate specialized equipment and use computational/simulation tools
Design and construct a working engineering application starting from a basic project idea and a set of constraints/specializations</td></tr>
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Write good technical reports and effective presentations
Organize and schedule project activities in order to successfully complete an engineering project
Test and troubleshoot their prototype
Demonstrate team work and collaboration with others toward a successful completion of a project
Identify important principles of ethics in engineering practices

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<tr><td>Prerequisites</td><td>None Senior Standing and Approval by the Department</td><td>Required</td><td>None</td></tr>
<tr><td>Course Content</td><td colspan="3">Independent-type of work involving research, design, implementation, testing, and troubleshooting</td></tr>
<tr><td>Teaching Methodology</td><td colspan="3">Lectures/seminars and project supervision</td></tr>
<tr><td>Bibliography</td><td colspan="3">
Required Textbooks/Reading:
<table>
<tr><th>Authors</th><th>Title</th><th>Publisher</th><th>Year</th><th>ISBN</th></tr>
<tr><td>W. Strunk, E. B. White, R. Angell</td><td>The Elements of Style</td><td>Longman, 4th Edition</td><td>1999</td><td>978-0205313426</td></tr>
<tr><td>Frank R. Kschichang</td><td>Giving a Talk</td><td>University of Toronto</td><td>2000</td><td></td></tr>
</table>
Recommended Textbooks/Reading:
<table>
<tr><th>Authors</th><th>Title</th><th>Publisher</th><th>Year</th><th>ISBN</th></tr>
<tr><td>As needed</td><td></td><td></td><td></td><td></td></tr>
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<tr><td>Assessment</td><td colspan="3">Progress reports, presentation, final report</td></tr>
<tr><td>Language</td><td colspan="3">English</td></tr>
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