



Course Syllabus

Course Code	Course Title	ECTS Credits
ECE-492	Senior Year Project	6
Prerequisites	Department	Semester
Approval by the Department	Engineering	Fall, Spring
Type of Course	Field	Language of Instruction
Required	Engineering	English
Level of Course	Lecturer(s)	Year of Study
1 st Cycle	Dr Stelios Neophytou	4 th
Mode of Delivery	Work Placement	Corequisites
Face-to-face	N/A	None

Course Objectives:

The main objectives of the 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

Learning Outcomes:

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
- 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

Course Content:

- Introduction.
- Senior Year Project process and regulations.
- Techniques to approach an engineering problem.
- Senior year project examples by old students.
- Senior Year Project proposal.
- Senior Year Project report writing.
- How to make successful presentation.
- Instructor sample presentation.
- Students' presentation.
- Independent-type of work involving research, design, implementation, testing, and troubleshooting.

Learning Activities and Teaching Methods:

Lectures, Workshops, Presentations and Project supervision

Assessment Methods:

Progress reports, Presentation, Final Report (Thesis)