



University of Nicosia, Cyprus

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

Objectives of the Course:

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 Contents:

Independent-type of work involving research, design, implementation, testing, and troubleshooting

Learning Activities and Teaching Methods:

Lectures and Project supervision

Assessment Methods:

Progress reports, Presentation, Final Report (Thesis)

Required Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN

Recommended Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN