

ECE 40600 - Senior Engineering Design II

Type of Course

Required for the CmpE and EE programs

Catalog Description

Design II is an extension of Design I and includes but is not limited to (1) continued research, design, and implementation; (2) oral presentation and/or demonstration of the project to faculty and other interested parties; (3) answering appropriate questions related to the project; (4) generation of a final technical report documenting design, development, and performance of project.

Credits

3

Contact Hours

1

Prerequisite Courses

ECE 40500

Textbook

None

Course Objectives

To develop capabilities of students to solve real-life problems. Students have to apply knowledge from their previous course work to accomplish projects formulation to prototype evaluation.

Course Outcomes

Students who successfully complete this course will have demonstrated

1. The ability to identify the various parameters that need to be determined in order to evaluate the prototype with the basic design that was obtained in the first semester [2]
2. The ability to build, test and evaluate the basic design completed in the first semester [2]
3. The ability to function within a team [5]
4. The ability to present his/her work both written and orally [3]
5. Understanding of the ethical issues that are associated with the engineering profession [4]
6. Understanding of the societal impact of engineering [4]

7. The ability to obtain new knowledge necessary to design and test a system, component, or process to meet desired needs [7]

Lecture Topics

1. Societal impact of engineering
2. Engineering Ethics

Coordinator

Guoping Wang, Ph.D.

Date

8/20/2024