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| **Course** | 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]**
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| **Lecture Topics** | * Societal impact of engineering
* Engineering Ethics
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| **Coordinator** | Carlos Pomalaza-Ráez |
| **Date** | September 30, 2018  |