

Course	ME 48800 – Mechanical Engineering Design II
Cross-listed Course	ENGR 41100 – Interdisciplinary Engineering Design II
Type of Course	Required for ME program
Catalog Description	Continuation of ME 48700
Credits	3
Contact Hours	3
Prerequisite Courses	ME 48700
Corequisite Courses	None
Prerequisites by Topics	Mechanical Engineering Design I
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 an ability to: <ol style="list-style-type: none">1. 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. Build the basic design completed in the first semester. (2)3. Test the basic design completed in the first semester. (2)4. Evaluate the basic design completed in the first semester. (2)5. Function within a team. (5)6. Present his/her work both written and orally. (3)7. Understand ethical issues that are associated with the engineering profession. (4)8. Understand the societal impact of engineering. (4)9. Recognize the need for life-long learning. (7)

Lecture Topics	<ol style="list-style-type: none"> 1. Introduction 2. Knowledge of contemporary issues 3. The broad education necessary to understand the impact of engineering solutions in global and societal contexts 4. Recognition of the need for life-long learning 5. Understanding professional and ethical responsibility 6. Discussion related to oral presentations 7. Oral presentations
Computer Usage	Low
Laboratory Experience	Low
Design Experience	High
Coordinator	Hosni Abu-Mulaweh, Ph.D.
Date	28 November 2022