The University of Jordan
School of Engineering

Department	Course Name	Course Number	Semester
Mechanical Engineering	Project I for Mechanical Engineers	0974598	

2024 Course Catalog Description

The final year project extends over a two-regular-semesters period. In Project (1), student teams are assigned engineering problems involving a major engineering design component in which students apply the accumulated knowledge and skills gained throughout the mechanical engineering program. The assigned engineering problems may be theoretical, experimental or both. In the first semester, the students study the problem assigned and its theoretical background, set the approach, review the state of the art, make the problem analysis and preliminary design and write a progress report including a cost estimate (if applicable) and time table for achieving the whole project.

Instructors

Name	E-mail	Section	Office Hours	Lecture Time

Prerequisites

Prerequisites by topic	
Prerequisites by course	Complete 120 Credit Hrs. Successfully
Co-requisites by course	
Prerequisite for	Project II for Mechanical Engineers

Topics Covered

Week	Topics
1	Minutes of Meeting (1)
2	Minutes of Meeting (2)
3	Minutes of Meeting (3)
4	Minutes of Meeting (4)
5	Minutes of Meeting (5)
6	Minutes of Meeting (6)
7	Minutes of Meeting (7)
8	Minutes of Meeting (8)
9	Minutes of Meeting (9)
10	Minutes of Meeting (10)
11	Minutes of Meeting (11)
12	Minutes of Meeting (12)
13	Minutes of Meeting (13)
14	Minutes of Meeting (14)
15	Progress Report

Evaluation		
Assessment Tools	**Expected Due Date**	**Weight**
Reports (Evaluated by the Supervisor)		20%
Progress Report (Evaluated by the committee)		10%

Contribution of Course to Meet the Professional Components

This course is an important prerequisite course for Project II for Mechanical Engineers.

Relationship to Student Outcomes

SOs	1	2	3	4	5	6	7
Availability	X			X	X		X

Relationship to Aeronautical Engineering Program Objectives (MEPOs)

MEPO1	MEPO2	MEPO3	MEPO4	MEPO5

ABET Student Outcomes (SOs)

1	An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2	An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3	An ability to communicate effectively with a range of audiences
4	An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5	An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6	An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7	An ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Updated by ABET Committee, 2025