

**The University of Jordan
School of Engineering**



Department	Course Name	Course Number	Semester
Mechanical Engineering	Energy Conversion	0904762	

2005 Course Catalog Description

Instructors

Name	E-mail	Sec	Office Hours	Lecture Time

Text Books

	Text book 1	Text book 2
Title		
Author(s)		
Publisher, Year, Edition		

References

Books	
Journals	
Internet links	

Prerequisites

Prerequisites by topic	1. Mechanics and properties of materials 2. Matrix algebra
Prerequisites by course	
Co-requisites by course	
Prerequisite for	

Topics Covered

Week	Topics	Chapter in Text	Sections

Mapping of Course Outcomes to ABET Student Outcomes

SOs	Course Outcomes
	1.
	2.
	3.
	4.
	5.
	6.

	7.						
Evaluation							
Assessment Tools		Expected Due Date					Weight
Assignments and Research Paper							20%
First Exam							20%
Second Exam							20%
Final Exam							40%
Contribution of Course to Meet the Professional Components							
Relationship to Student Outcomes							
SOs	1	2	3	4	5	6	7
Availability							
Relationship to Mechanical 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, 2019							