



**Jordan University of Science and Technology**  
**Faculty of Engineering**  
**Mechanical Engineering Department**

ME592 Graduation Project - JNQF Level: 7

First Semester 2023-2024

**Course Catalog**

3 Credit Hours. Students perform the experimental and practical phases associated with solving the mechanical engineering problem addressed in Graduation Capstone Project I. Students produce a full technical report that documents the research, design, results, analysis, and recommendations of the study, followed by a final presentation and defense.

**Instructor**

Name	Prof. Khaled Bataineh
Office Location	CH1 L2
Office Hours	
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**Class Schedule & Room**

Section 1:  
 Lecture Time: U :-  
 Room: LAB 1

**Prerequisites**

Line Number	Course Name	Prerequisite Type
254920	ME492 Engineering Training	Prerequisite / Study
255911	ME591 Graduation Project (1)	Prerequisite / Study

**Mapping of Course Outcomes to Program Outcomes and NQF Outcomes**

	Course Outcome Weight (Out of 100%)	Assessment method
an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics [1SO1] [1L7S1]	10%	

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 [1SO2] [1L7S3]	45%	
an ability to communicate effectively with a range of audiences [1SO3] [1L7C4]	15%	
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 [1SO4] [1L7C2]	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 [1SO5] [1L7C3]	10%	
an ability to acquire and apply new knowledge as needed, using appropriate learning strategies [1SO7] [1L7K1]	10%	
an ability to establish goals, plan tasks, and meet objectives [1SO5] [1L7C1]	5%	

Relationship to Program Student Outcomes (Out of 100%)						
SO1	SO2	SO3	SO4	SO5	SO6	SO7
10	45	15	5	15		10

Relationship to NQF Outcomes (Out of 100%)						
L7K1	L7S1	L7S3	L7C1	L7C2	L7C3	L7C4
10	10	45	5	5	10	15

Evaluation	
Assessment Tool	Weight
Interim Evaluation	15%
Final	85%

Date Printed: 2023-11-30