



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

NE592 Graduation Project (2)
First Semester 2019-2020

Course Catalog
3 Credit Hours. Students perform the experimental and practical phases associated with solving the nuclear 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.

Text Book	
<b>Title</b>	Guidance and Notes delivered to students by the project adviser
<b>Author(s)</b>	project adviser or committee
<b>Edition</b>	1st Edition
<b>Short Name</b>	Ref. 1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref. 2	NE Assessment Rubrics for BS projects	project adviser or committee	1st Edition	

Instructor	
Name	<b>Dr. Khaled AL-Shboul</b>
Office Location	E2 L-2
Office Hours	Sun : 11:30 - 12:30 Tue : 11:30 - 12:30 Wed : 11:30 - 14:30 Thu : 14:30 - 15:30
Email	kfshboul@just.edu.jo

<b>Class Schedule &amp; Room</b>
Section 1: Lecture Time: U : - Room: U

<b>Prerequisites</b>		
<b>Line Number</b>	<b>Course Name</b>	<b>Prerequisite Type</b>
2005910	NE591 Graduation Project (1)	Prerequisite / Study
2004900	NE490 Engineering Training	Prerequisite / Study

<b>Tentative List of Topics Covered</b>		
<b>Weeks</b>	<b>Topic</b>	<b>References</b>
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Practical implementation of the project approved in the first portion of the graduation project sequence.	

<b>Mapping of Course Outcomes to Program Student Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>
Identify, formulate, and solve the real complex engineering problem by applying principles of engineering, science, and mathematics with defining the most relevant needs and operational constraints. [11]	20%	Exit Exam
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. [12]	14%	Semester Progress Reports, Final Report and Presentation
Communicate effectively with a range of audiences [13]	13%	Semester Progress Reports, Final Report and Presentation
Recognize ethical and professional responsibilities in engineering situations. [14]	13%	Semester Progress Reports, Final Report and Presentation
Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives [15]	14%	Semester Progress Reports, Final Report and Presentation
Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions [16]	13%	Semester Progress Reports, Final Report and Presentation
Acquire and apply new knowledge as needed, using appropriate learning strategies [17]	13%	Semester Progress Reports, Final Report and Presentation

Relationship to Program Student Outcomes (Out of 100%)						
1	2	3	4	5	6	7
20	14	13	13	14	13	13

Evaluation	
Assessment Tool	Weight
Semester Progress Reports	40%
Exit Exam	20%
Final Report and Presentation	40%

Date Printed: 2020-01-02