

## Course E-Syllabus

1	<b>Course title</b>	Project Management
2	<b>Course number</b>	IE0906522
3	<b>Credit hours</b>	3
	<b>Contact hours (theory, practical)</b>	Sunday, Tuesday, Thursday (11:30-12:30)
4	<b>Prerequisites/corequisites</b>	Engineering Economy (0901420)
5	<b>Program title</b>	B.Sc. Industrial Engineering
6	<b>Program code</b>	
7	<b>Awarding institution</b>	The University of Jordan
8	<b>School</b>	Engineering
9	<b>Department</b>	Industrial Engineering
10	<b>Level of course</b>	5 <sup>th</sup> Year
11	<b>Year of study and semester (s)</b>	Fall (1 <sup>st</sup> semester) 2020/2021
12	<b>Final Qualification</b>	
13	<b>Other department (s) involved in teaching the course</b>	None
14	<b>Language of Instruction</b>	English
15	<b>Teaching methodology</b>	<input type="checkbox"/> Blended <input checked="" type="checkbox"/> Online
16	<b>Electronic platform(s)</b>	<input checked="" type="checkbox"/> Moodle <input type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input checked="" type="checkbox"/> Zoom <input checked="" type="checkbox"/> Other: YouTube/Facebook
17	<b>Date of production/revision</b>	10/10/2020

### 18 Course Coordinator:

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### 19 Other instructors:

Name:  
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Name:  
Office number:  
Phone number:  
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## 20 Course Description:

Basics of project management and its importance in project success and the achievements of objectives within constraints of time, budget, and standards. Comprehensive integrated planning for all the activities required for project success using the project life cycle, Gantt chart, activity on arrow, activity on node for scheduling time, expenditure, and resources, time/cost analysis and resource allocation.

## 21 Course aims and outcomes:

A- Aims:

B- Intended Learning Outcomes (ILOs):

Upon successful completion of this course, students will be able to:

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CLO1	Apply major approaches for defining project scope, priorities and breakdown structure.	1,2
CLO2	Apply top-down and bottom-up approaches for estimating project times and costs.	1,2
CLO3	Apply the activity-on-node approach for developing project networks and calculating activity times.	1,2
CLO4	Apply major approaches for managing risks in projects.	1,2,4
CLO5	Apply major approaches for scheduling resources and costs of projects.	1,2
CLO6	Apply the time/cost analysis approach for reducing project duration.	1,2
CLO7	Apply the Earned Value Cost/Schedule System for measuring and evaluating project progress and performance	1,2

## 22. Topic Outline and Schedule:

Week	Lecture	Topic	Teaching Methods*/platform	Evaluation Methods**	References
1	All	Introduction to project management	Synchronous and Asynchronous lecturing/meeting	Homework, Quiz	Project Management: The Managerial Process. Gray, C.F. and Larson, E.W., McGraw-Hill/Irwin, 7th Edition, 2018
2-3	All	Defining the project	Synchronous and Asynchronous lecturing/meeting	Homework, Quiz	
4	All	Estimating project times and costs	Synchronous and Asynchronous lecturing/meeting	Homework, Quiz	
5-8	All	Developing a project plan	Synchronous and Asynchronous lecturing/meeting	Homework, Quiz	
9-10	All	Managing risk	Synchronous and Asynchronous lecturing/meeting	Homework, Quiz	
11-12	All	Scheduling resources	Synchronous and Asynchronous lecturing/meeting	Homework, Quiz	
13	All	Reducing project duration	Synchronous and Asynchronous lecturing/meeting	Homework, Quiz	
14-15	All	Progress and performance measurement and evaluation	Synchronous and Asynchronous lecturing/meeting	Homework, Quiz	

- Teaching methods include: Synchronous lecturing/meeting; Asynchronous lecturing/meeting
- Evaluation methods include: Homework, Quiz, Exam, pre-lab quiz...etc

### 23 Evaluation Methods:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	Period (Week)	Platform
Homework/Quiz	15			
Mid Exam	35			
Final Exam	50			

### 24 Course Requirements (e.g: students should have a computer, internet connection, webcam, account on a specific software/platform...etc):

Students should have a computer, internet connection, account on Moodle.

### 25 Course Policies:

A- Attendance policies:

B- Absences from exams and submitting assignments on time:

C- Health and safety procedures:

D- Honesty policy regarding cheating, plagiarism, misbehavior:

E- Grading policy:

F- Available university services that support achievement in the course:

### 26 References:

A- Required book(s), assigned reading and audio-visuals:

Project Management: The Managerial Process. Gray, C.F. and Larson, E.W., McGraw-Hill/Irwin, 7th Edition, 2018.

B- Recommended books, materials and media:

Project management: A Managerial Approach. Jack R. Meredith and Samuel J. Mantel, Jr, John Wiley & Sons Inc., 7th Edition, 2009.

**27 Additional information:**

<b>The B.Sc. in industrial Engineering program enables students to achieve, by the time of graduation the following program learning outcome (SOs)</b>			
<b>1</b>	<i>an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics</i>	<b>6</b>	<i>an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions</i>
<b>2</b>	<i>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</i>	<b>7</b>	<i>an ability to acquire and apply new knowledge as needed, using appropriate learning strategies</i>
<b>3</b>	<i>an ability to communicate effectively with a range of audiences</i>		
<b>4</b>	<i>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</i>		
<b>5</b>	<i>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</i>		

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of Curriculum Committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of Curriculum Committee/Faculty: ----- Signature: -----

Dean: ----- Signature: -----