



Course Syllabus Form

1. College: College of Engineering						
2. Department: Mechanical Engineering						
3. Program: Master of Science in Engineering Management						
4. Course code: IEN 514						
5. Course title: Project Management						
6. Course credits: 3						
7. Pre-requisites:						
8. Lectures Timing & Location: Wednesday from 16:00 to 18:30 in S1B-148						
9. Course web-page: https://hatemmasri.com/teaching/ien514/						
10. Course coordinator: Dr. Hatem Masri						
11. Academic year: 2018-2019						
12. Semester:	X	First		Second		Summer
13. Textbook(s): Clifford F. Gray, Erik W. Larson (2014) Project Management: The Managerial Process, McGraw-Hill Irwin 6th ed., ISBN: 0078096596						
14. References: [1] Pratt, David (2015) <i>Great Lessons in Project Management</i> , Management Concepts, Incorporated (available in the UoB digital Library, Ebrary) [2] Kerzner, Harold R. (2014) <i>Project Management 2.0</i> , Wiley (available in the UoB digital Library, Ebrary) [3] Kerzner, Harold R. (2013) <i>Project Management : Case Studies</i> (4 th ed), Wiley (available in the UoB digital Library, Ebrary) [4] Meredith, J. R., & Mantel Jr, S. J. (2000). Project management: a managerial approach. John Wiley & Sons (available in the UoB Central Library HD69.P75M472000)						
15. Other resources used (e.g. e-Learning, field visits, periodicals, software, etc.): Project Management Software - Microsoft Office						
16. Course description (from the catalog): Preparation of project proposal. Project selection and planning. Contract schedule. Estimation of costs. Types and analysis of contracts. Contract clauses. Negotiations. PERT and CPM Scheduling: Schedule computation: communicating the schedule; project control. Critical chain scheduling. Time-cost adjustment: Activity time-Resource-Cost relationships; Project time-cost relationship. Resource leveling: Resolving resource conflicts; Resource leveling techniques.						
17. Course Intended Learning Outcomes (CILOs):						
						<i>Mapping to PILOs</i>
CILOs						
	a	b	c	d	e	f
1. To identify the techniques and documents needed to develop a project plan.	X	X				
2. To identify the components of the contracts and the role of negotiation in the procurement planning.	X				X	X
3. To develop a project schedule and to allocate resources using				X	X	X

critical path method available project management software packages.						
4. To understand the project management planning and scheduling concepts/procedures.			X	X	X	X
5. To know how to control project schedule, budget and specifications.					X	X
6. To learn how to deal with multi-project scheduling and resource allocation.	X	X				
7. To identify project areas that should be controlled.			X	X		
18. Course assessment:						
<i>Assessment Type</i>	<i>Details/ Explanation of Assessment in relation to CILOs</i>	<i>Number</i>	<i>Weight</i>	<i>Date(s)</i>		
Tests	1,3,4,5,6	2	30 %			
Assignments	1,2,3,4,5,6,7	4	10 %			
Projects/Case Studies	Project using Microsoft Project	2	20 %			
Final	2,4,5,7	1	40 %			
Total			100%			
19. Description of Topics Covered						
<i>Topic Title</i>	<i>Description</i>					
Chapter 1: Modern Project Management	What Is a Project and what is the Importance of Project Management					
Chapter 2: Organization Strategy and Project Selection	To learn how to deal with multi-project scheduling and resource allocation.					
Chapter 3: Organization: Structure and Culture	Project Management Structures and organizational Culture					
Chapter 4: Defining the Project	To present a case study in planning/scheduling of a specific project to colleagues in class. To use available project management software packages.					
Chapter 5: Estimating Project Times and Costs	To know how to control project schedule, budget and specifications.					
Chapter 6: Developing a Project Plan	To identify the techniques and documents needed to develop a project plan.					
Chapter 7: Managing Risk	To understand the project management planning and scheduling concepts/procedures.					
Chapter 8: Scheduling Resources and Costs	To develop a project schedule and to allocate resources using critical path method and/or program evaluation review technique.					
Chapter 12: Outsourcing: Managing Interorganizational Relations	To define the various types of contracts, and identify the components of the contracts and procurement variables. To identify the role of negotiation in selecting contractors. To plan procurements and identify factors that influence procurement planning.					
Chapter 13: Progress and Performance Measurement and Evaluation	To identify project areas that should be controlled.					
Chapter 14: Project Closure	To describe the major deliverables for project closure					

20. Course Weekly Breakdown:					
<i>Week</i>	<i>Date</i>	<i>Topics covered</i>	<i>CILOs</i>	<i>Teaching Method</i>	<i>Assessment</i>
1	16-20 Sept.	Understanding Project Management Case: A Day in the Life	1	Explaining Collaborating and Learning by teaching	Assignments, Cases and Test 1
2	23-27 Sept.	Organization Strategy and Project Selection Selected Problems	4,6		
3	30 Sept.- 4 Oct.	Organization: Structure and Culture Reading: How Culture Is Created and Communicated in Organizations	4,6		
4	7-11 Oct.	Defining the Project Reading: Student Tips for Building a WBS	1	Explaining and Collaborating	
5	14-18 Oct.	Test 1			
6	21-25 Oct.	Estimating Project Times and Costs	3	Explaining Demonstrating	Assignments, Cases and Test 2
7	28 Oct.-1 Nov.	Computer Lab Introduction to Microsoft Project	1	Explaining Collaborating Demonstrating	
8	Mid Semester Break				
9	11-15 Nov.	Developing a Project Plan	1	Explaining Demonstrating	Assignments, Cases and Test 2
10	18-22 Nov.	Managing Risk	7		
11	25-29 Nov.	Scheduling Resources and Costs	4		
12	2-6 Dec.	Test 2			
13	9-13 Dec.	Microsoft Project Computer Lab # 2	4	Collaborating Demonstrating	Assignments, Cases and Final Exam
14	16-20 Dec.	Outsourcing: Managing Interorganizational Relations	2	Explaining Demonstrating	
15	23-27 Dec.	Progress and Performance Measurement and Evaluation	5,7		
16	30 Dec.- 3 Jan. 2019	Project Closure and auditing	4,7		