

Engineering management

Course Description Form

1. Course Name:					
Engineering management					
2. Course Code:					
CIV32207					
3. Semester / Year:					
second semester / Third year					
4. Description Preparation Date:					
1/10/2025					
5. Available Attendance Forms:					
In class					
6. Number of Credit Hours (Total) / Number of Units (Total)					
The. 2 hr. Tut.1 hr. / 3Units					
7. Course administrator's name (mention all, if more than one name)					
Name: Mohammed wasea sabbar Email: mohammed.w.sabbar@muc.edu.iq					
8. Course Objectives					
Course Objectives		1. Introduce fundamental concepts and definitions of Engineering Management. 2. Explore project planning methods, including Bar Charts, Network Analysis, and Grid Methods. 3. Develop skills in resource allocation for efficient project execution. 4. Enhance understanding of project management tools and techniques. 5. Equip students with the ability to analyze and optimize engineering projects.			
9. Teaching and Learning Strategies					
Strategy		To equip students with practical knowledge and tools for effective project planning, management, and resource allocation, ensuring they can successfully lead engineering projects and make data-driven decisions.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1.	5	Define key concepts and principles of	Engineering Management Definitions	1. Interactive Learning	Several Ways (Exams + Assignments)

2.	5	Engineering Management	Engineering Management Definitions	2. Experimental Learning	Several Ways (Exams + Assignments)
3.	5		Engineering Management Definitions	3. Collaborative Learning	Several Ways (Exams + Assignments)
4.	5	Apply project planning methods, including Bar Charts, Network Analysis, and Grid Methods.	Project Planning Methods	4. Technology-enhanced Learning	Several Ways (Exams + Assignments)
5.	5		Bar Chart	5. Learning Problem-based Learning	Several Ways (Exams + Assignments)
6.	5	Analyze project schedules and identify critical paths using advanced techniques..	Bar Chart		Several Ways (Exams + Assignments)
7.	5		Network Analysis		Several Ways (Exams + Assignments)
8.	5		Network Analysis		Several Ways (Exams + Assignments)
9.	5	Evaluate and optimize engineering project performance.	Grid Methods		Several Ways (Exams + Assignments)
10.	5		Grid Methods		Several Ways (Exams + Assignments)
11.	5		Resources Allocation.		Several Ways (Exams + Assignments)
12.	5	Allocate resources effectively to meet project objectives	Resources Allocation.		Several Ways (Exams + Assignments)
13.	5		Resources Allocation.		Several Ways (Exams + Assignments)
14.	5		preparation		Several Ways (Exams + Assignments)
15.	5		exam		Several Ways (Exams + Assignments)

16. Course Evaluation

1. Final Exam: 60%
2. Monthly Exams: 15%
3. Reports and Assignments: 10%
4. Attendance and Daily Participation: 10%
5. Oral Evaluation: 5%

17. Learning and Teaching Resources

Required textbooks (curricular books, if any)	"Project Management: A Systems Approach to Planning, Scheduling, and Controlling" by Harold Kerzner
Main references (sources)	"Engineering Management" by Robert E. Shannon and Ce Augusto Gonzalez

Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	