



Course Specification (Bachelor)

Course Title: Project Management

Course Code: **GE1401**

Program: Electrical Engineering

Department: Civil Engineering Department

College : College of Engineering

Institution: Imam Mohammad Ibn Saud Islamic University

Version: V5

Last Revision Date: 01-01-2025



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A. General information about the course:

1. Co	urse Identificat	ion			
1. Cr	redit hours: (4 c	Credit hours)			
2. Co	ourse type				
Α.	□University _	□ College	☐ Department	□Track	□Others
В.	□ Required		□Electi		
			e is offered: (7th leve	el / 4 th year)	
	ourse general D	•			
opera includ the p comm assess labor,	tional use, with emple professional aspectoroject organization unications, projectoment, reporting, and material, and equi	phasis on the funct cts of project manag . The course emp lifecycle, risk and d reaction to critical ipment utilization.	ions, roles, and respon- gement, business factors hasizes planning, sche alysis, interface mana al problems. Further en	sibilities of the saffecting the peduling, using 1 gement, design mphasis is on p	project from concept to project manager. Topics project, the manager, and networks, execution and review, design control project resources: money, pricing and contracting,
5. Pr	e-requirement	s for this cours	e (if any):		
STAT	1215				
6. Co	o-requirements	for this course	e (if any):		
None					
7. Co	ourse Main Obj	ective(s):			
1.		derstanding of key	principles and practice	es of project man	nagement as employed in
2.	lifecycle.			-	tion to its occupancy and cost, quality, resources,

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	50	100%
2	E-learning		
3	Hybrid		

communication, risk, procurement, and stakeholder management.





No	Mode of Instruction	Contact Hours	Percentage
	Traditional classroomE-learning		
4	Distance learning		

None

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	40
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	10
5.	Others (specify)	
Total		50

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and under	standing		
1.1	Recognize basic specific terminology of project management, scope, and schedule management. Recognize professional and ethical responsibility related to project management processes, standard for project management, and in submitting assignments or project as well as during exams.	K. 1	Lectures, Discussion, Tutorials	Grading of Quizzes, Mid- semester, and Final Exams
2.0	Skills			
2.1	Solve complex engineering problems	S. 1	Lectures, Discussion,	Grading of Quizzes, Mid-

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	related to project budget, cost estimate, s- curve, and progress reports as well as apply earned value method (EVM).		Tutorials	semester, and Final Exams
2.2	Identify Work Breakdown Structure (WBS) and create and update schedule. Also analyze and apply project management techniques and methods in resource leveling, least cost scheduling, and risk management.	S. 2	Lectures, Discussion, Tutorials	Grading of Quizzes, Mid- semester, and Final Exams
2.3	Communicate effectively during class discussions as well as on the semester project and deliver presentation by using project management methods and techniques	S. 4	Coursework Assignments / Group Project, Discussion	Coursework Project presentation
3.0	Values, autonomy, and	d responsibility		
3.1	Apply new knowledge related to standards for project management including initiating process, planning process, executing process, monitoring, and controlling, and closing process.	V. 2	Lectures, Discussion, Tutorials, Personal study	Grading of Quizzes, Mid- semester, and Final Exams





C. Course Content

No	List of Topics	Contact Hours
1.	Introduction, The Environment in Which Projects Operate, Nature of Project Management, Relationship Between Projects and Other Production Systems, Difference between Engineering and Management	1
2.	Role of the Project Manager, Characteristics of Projects, Function of Project Manager, Life Cycle of a Project, Factors that Affect Success of a Project,	3
3.	Project Integration Management, Integration, Project Charter, Project Plan, Scope, Time, Cost, Quality, Resource, Communication, Risk and Procurement Management, Close Project	4
4.	Project Scope Management, Organizational Structure of a Project, Types of Organizational Structures, Organizational Breakdown Structures (OBS), Work Breakdown Structure (WBS) of a Project	5
5.	Project Schedule Management, Defining Activities, Managing Relationships, Gantt Chart, Activity on Arrow and Node Network Approach, Lead and Lag Relationships, Critical Path Method, develop schedule / Project Time Management, Dealing with Uncertainty, PERT	6
6.	Project Resource Management	9
7.	Project Cost Management, Estimate Cost, Determine Budget, Techniques for Managing the Budget, Control cost	7
8.	Project Quality Management	8
9.	Project Procurement Management, Project Stakeholder Management	12, 13
10.	Project Communication Management, Project Risk Management	10, 11
11.	Project Control- Common form of Project Control, Cost and Schedule Control, Reporting progress, Earned Value Method,	7
	Total	50

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz	3 rd or 4 th	5%
2.	Term Project	10 th	5%
3.	Mid-I Exam	4 th or 5 th	25%
4.	Mid-2 Exam	8 th or 9 th	25%
5.	Final Exam	As per the Uni. Schedule	40%
	Total		100%

^{*}Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).





E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	A Guide to the Project Management Body of Knowledge PMBOK Guide, 6 th Edition, Project Management Institute, 2017
Supportive References	 Project Management: A Managerial Approach by Jack R. Meredith, Samuel J. Mantel Jr., Scott M. Shafer, John Wiley & Sons, 11th Edition, 2021. Project Management (Process, Methodologies, and Economics) by Avraham Shtub, Jonathan F. Bard, Shlomo Globerson, Pearson, 3rd Edition, 2017 Project Management: The Managerial Process by Clifford F. Gray & Erik W. Larson, McGraw Hill, 8th Edition, 2020 Project Management: A System Approach to Planning, Scheduling, and Controlling by Kerzner, Harold. John Wiley & Sons, 13th Edition, 2022.
Electronic Materials	https://ascelibrary.org/journal/jmenea
Other Learning Materials	https://www.microsoft.com/en-us/download/details.aspx?id=53048 http://download.cnet.com/Microsoft-Project-Professional-2010-64- Bit/3000-2076 4-75451125.html https://www.oracle.com/applications/primavera/products/project- management.html

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	A classroom and computer lab of size that can accommodate 35 students is fine.
Technology equipment (projector, smart board, software)	Multimedia Support, Smart Board, Overhead Projectors for Lectures, and Microsoft office software
Other equipment (depending on the nature of the specialty)	Computer Lab with installed Primavera P6 professional

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Course evaluation survey	Indirect method – Course evaluation survey is conducted by the University
Effectiveness of Students' assessment	Program Chair	Assessment grades are reviewed by the Program Chair
Quality of learning resources	Course evaluation survey	Indirect method – Course evaluation survey is conducted by the University





Assessment Areas/Issues	Assessor	Assessment Methods
The extent to which CLOs have been achieved	Faculty Member	Direct evaluation by the instructor based on the student performance.
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL/COMMITTEE	Construction Engineering and Management - Focus Group	
REFERENCE NO.		
DATE	26 Nov 2024	

