

MODULE DESCRIPTION FORM

Module Information			
Module Title	Project Management		Module Delivery
Module Type	Base		☐ Theory ☒ Lecture ☐ Lab ☐ Tutorial ☐ Practical ☒ Seminar
Module Code	AIE321		
ECTS Credits	4		
SWL (hr/sem)	100 H/Sem.		
Module Level	3	Semester of Delivery	6
Administering Department	Artificial Intelligence Eng.	College	College of Engineering
Module Leader	Mohammed Abdelhadi Diykh	e-mail	
Module Leader's Acad. Title	Assistant Prof	Module Leader's Qualification	Ph.D.
Module Tutor	Mohammed Abdelhadi Diykh	e-mail	
Peer Reviewer Name	Hasnaa Mohammed	e-mail	
Scientific Committee Approval Date		Version Number	1.0

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	Fundamentals of Project Management, Basic Management Functions, Planning, Strategies for Various Engineering Applications, Human Resource Management Elements, Recruitment, Directing, Controlling, Total Quality Management (TQM), Continuous Improvement, Project Integration Management, Project Scope Management, Project Time Management, Project Cost Management, Project Communications Management, Project Risk Management, Project Procurement Management.



Module Learning Outcomes	Knowledge	A1	A1.1 Define the fundamental concepts of project management, including project lifecycle, objectives, and key management principles. A1.2 Explain the basic management functions such as planning, organizing, directing, and controlling in project environments. A1.3 Examine the role of strategic planning and its application in various engineering projects. A1.4 Describe the elements of human resource management, including recruitment, directing, and controlling team performance. A1.5 Illustrate the principles of Total Quality Management (TQM) and continuous improvement in project execution. A1.6 Analyze the processes involved in project integration and scope management to ensure successful project delivery. A1.7 Evaluate different techniques used in project time and cost management for effective scheduling and budgeting. A1.8 Assess communication, risk, and procurement management strategies and their impact on project success.
		B1	B1.1 Function efficiently as an individual B1.2 Function as a member of multidisciplinary and multicultural teams.
	Skills	B2	B2.1 Communicate effectively – graphically with a range of audiences using contemporary tools. B2.2 Communicate verbally and in writing with a range of audiences using contemporary tools.
		C3	C.3.1 Utilize contemporary technologies. C.3.2 Make use of codes of practice and standards, quality guidelines. C.3.3 Utilize health and safety requirements C.3.4 Show environmental issues and risk management principles.

Indicative Contents	Indicative content includes the following. Unit 1: Fundamentals of Project Management – Project Lifecycle and Key Management Principles [6 hours] Unit 2: Basic Management Functions – Planning, Organizing, Directing, Controlling [6 hours] Unit 3: Strategic Planning and Applications in Engineering Projects [6 hours] Unit 4: Human Resource Management – Recruitment, Directing, Controlling, TQM, Continuous Improvement [6 hours] Unit 5: Project Integration, Scope, Time, Cost, Communications, Risk, and Procurement Management [6 hours]
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Learning and Teaching Strategies

Strategies	• Presentation • Interactive learning • Discussions • Brainstorming • Group Solving Problems • Problem-Based Learning • Self-learning
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Student Workload (SWL) for 15 weeks

Structured SWL (h/sem)	60	Structured SWL (h/w)	5.2
Unstructured SWL (h/sem)	40	Unstructured SWL (h/w)	4.8
Total SWL (h/sem)	100		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	A1
	Assignments	2	10% (10)	4,6,8,10,12 and 14	A1
	Projects / Lab.				
	Report	1	10% (10)	13	A1,B1,B2,C3
Summative assessment	Midterm Exam	1hr	10% (10)	7	A1
	Final Exam	3hr	50% (50)	15	A1
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)		
المنهاج الاسبوعي النظري		
Week	Material Covered	Los
Week 1	Introduction to Project Management: Fundamentals, Project Lifecycle, and Key Management Principles	A1.1
Week 2	Basic Management Functions: Planning, Organizing, Directing, Controlling	A1.2, B1.1, B2.2
Week 3	Strategic Planning: Concepts and Applications in Engineering Projects	A1.3, B2.1, C3.1
Week 4	Human Resource Management: Recruitment, Directing, Controlling	A1.4, A1.5, B1.2, C3.1
Week 5	Total Quality Management (TQM) and Continuous Improvement	A1.5, B1.1, B2.1, C3.1
Week 6	Project Integration Management: Processes and Best Practices	A1.6, B1.2, B2.1, C3.1
Week 7	Project Scope Management: Defining and Controlling Scope	A1.6, B2.2, C3.1
Week 8	Project Time Management: Scheduling Techniques	A1.7, B1.1, B2.1, C3.1
Week 9	Project Cost Management: Budgeting and Cost Control	A1.7, B1.1, B2.2, C3.1
Week 10	Mid-term EXAM	A1, B1, B2
Week 11	Project Communications Management: Planning and Implementation	A1.8, B2.1, B2.2, C3.1
Week 12	Project Risk Management: Identification, Analysis, and Mitigation	A1.8, B2.1, B2.2, C3.1
Week 13	Project Procurement Management: Procurement Planning and Contracts	A1.8, B1.2, B2.1, C3.1
Week 14	Introduction to Project Strategies: Application to Engineering Projects	A1.3, A1.5, B2.1, C3.1
Week 15	Integrated Project Management Exercise: Applying All Knowledge Areas	A1.6, A1.7, A1.8, B1.2, B2.1, C3.1
Week 16	Rubric Exam Preparatory week before the final Exam	A1, B1, B2, C3

Delivery Plan (Weekly Lab. Syllabus)	
المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	
Week 2	

Week 3	
Week 4	

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	1. Kerzner, Harold, and H.R. Kerzner. <i>Project Management: A Systems Approach to Planning, Scheduling, and Controlling</i>. John Wiley & Sons, 2017. 2. Smith, Nigel. <i>Engineering Project Management</i>. 3rd Edition, Wiley-Blackwell, 2008.	YES
Recommended Texts	1. Kalpakjian, S., K. Vijai Sekar, and S.R. Schmid. <i>Manufacturing Engineering and Technology</i>. Pearson, 2014.	NO
Websites	https://eng.alayen.edu.iq/colleges/e/	

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A – Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C – Good	جيد	70 - 79	Sound work with notable errors
	D – Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E – Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.