



UNIVERSITI TEKNOLOGI MARA

CGE671: PETROLEUM PROJECT MANAGEMENT

Course Name (English)	PETROLEUM PROJECT MANAGEMENT APPROVED
Course Code	CGE671
MQF Credit	3
Course Description	This course will take a comprehensive view of petroleum project management, addressing both the technical and the social science of the field. Furthermore, the course will provide intensive coverage of management in a wide range of project applications. It starts with project management lifecycle that is; Initiation, Planning, Execution, Control & Monitoring and Closing of project.
Transferable Skills	To be determined
Teaching Methodologies	Lectures, Blended Learning, Case Study, Tutorial, Discussion, Presentation
CLO	<p>CLO1 CO1: Describe the project management concepts as well as comprehend the role and responsibilities of a project manager</p> <p>CLO2 CO2: Demonstrate the ability to create project plans, schedules and budgets.</p> <p>CLO3 CO3: Distinguish and select the appropriate tools and techniques to aid in managing a project.</p> <p>CLO4 CO4: Develop and select appropriate management styles to successfully complete a project.</p>
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction to project management – The Overview 1.1) • General view of a project 1.2) • Project performance targets and goals of a project 1.3) • Selection & Scope of the project	
2. Project Team 2.1) • The PM's Role 2.2) • The PM's responsibilities to the project 2.3) • Selection of a project manager 2.4) • Project team 2.5) • Organization: Structure and culture	
3. Project Planning, Strategy & Budgeting 3.1) • Definition: Planning and Strategy 3.2) • Contents of a project plan and the planning process 3.3) • The Work Breakdown Structure (WBS) 3.4) • Resources & Responsibility Matrices (RACI) 3.5) • Method of Budgeting & Cost Analysis 3.6) • Risk/ Communication, etc.	
4. Project Scheduling 4.1) • Project Time Planning 4.2) • Gantt Chart 4.3) • Project Plan Network 4.4) • PERT and CPM networks 4.5) • MS Project (MSP)	
5. Resources Management 5.1) • Resources & inventory allocation 5.2) • Resources / cost / inventory management & procurement 5.3) • Fast Tracking the project - crashing method	

6. Monitoring and Controlling a Project

- 6.1) • The Plan-Monitor-Control cycle
- 6.2) • Data collection and Reporting
- 6.3) • Earned Value Management (EVM)
- 6.4) • Project Control System

7. Risk Management

- 7.1) • Definition
- 7.2) • The risk assessment process and mitigation
- 7.3) • Risk Register / Profile / Matrix /Schedule
- 7.4) • Risk Severity, Control and Monitoring
- 7.5) • Risk in Oil and Gas Industry topic

8. Evaluation, Termination and Closing of Project

- 8.1) • Project evaluation and performance
- 8.2) • Project auditing
- 8.3) • Project completion and handover
- 8.4) • The Lesson Learnt

9. Mini Project

- 9.1) Mini Project

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Assignment 2	7%	CLO2
	Assignment	Assignment 3	7%	CLO3
	Assignment	Assignment 1	8%	CLO1
	Assignment	Assignment 4	8%	CLO4
	Group Project	Mini Project	10%	CLO1
	Group Project	Mini Project	10%	CLO2
	Group Project	Mini Project	10%	CLO3
	Group Project	Mini Project	10%	CLO4
	Test	Take Home Test 1	7%	CLO1
	Test	Take Home Test 2	7%	CLO3
	Test	Take Home Test 1	8%	CLO2
	Test	Take Home Test 2	8%	CLO4

Reading List	Recommended Text	Reference Book Resources
	<ul style="list-style-type: none"> • Larson, E. & Gray, C. 2011, <i>Project Management the Managerial Process</i>, 5th Edition Ed., McGrawhill • Mantel, Meredith, Shafer and Sutton 2011, <i>Project Management in Practice</i>, 4 Ed., Wiley and Sons, Inc. • Project Management Institute 2004, <i>A Guide to the project management Body of Knowledge</i>, 5 Ed. 	<ul style="list-style-type: none"> • Turton, Bailie, Whiting and Shaeiwitz 2009, <i>Analysis, Synthesis, and Design of Chemical Processes</i>, 3 Ed., Prentice Hall International Series • Martyn S. Ray and Martin G. Sneesby 1989, <i>Chemical Engineering Design Project: A Case Study Approach</i>, 2 Ed., Gordon and Breach Science Publisher • Timothy J. Kloppenborg 2011, <i>Contemporary Project Management - Organize, Plan, Perform</i>, 2 Ed., South Western • Brown, K.A 2002, <i>Project Management</i>, McGraw Hill • James P. Lewis 2007, <i>Fundamentals of Project Management</i>, AMACOM Div America Mgmt Assn • Brown, K.A. 2003, <i>Advanced Tools for Project Scheduling</i>, McGraw Hill
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	