

PROJECT MANAGEMENT INSTITUTE (INDIA)

Academic Advisory Group

Education Programme Recommendations

Project Management Course for UG Engineering Programme

Topic No	Topics	No. of Sessions 1 Session = 60 minutes
1	Introduction to Project Management	3 sessions
	Justifying Project Management	S1
	Projects -Definitions	S1
	The Project Management Triangle– Scope, Time and Cost	S1
	What is Project Management	S2
	Projects & Operations	S2
	The Project Life Cycle	S2
	Project Stakeholders	S3
	Project Management Process Groups	S3
	Project Management Knowledge Areas	S3
2	Specification of a Project	6 sessions
	The Project Charter	S4
	The Project Scope DocumentWork	S4
	Breakdown Structures	S5, S6
	Project Contracts – Scope, Delivery, Costs and Risks	S7, S8, S9
3	Project Planning and Scheduling	9 sessions
	Project Network Representations	S10, S11
	Activity Parameter Estimation – Time, Cost and Resources	S12, S13
	Project Time Schedule	
	Gantt Charts, CPM and PERT	S14, S15
	Activity and Project Crashing	S16
	Resources Scheduling	S17, S18

Topic No	Topics	No. of Sessions 1 Session = 60 minutes
4	Project Execution Management	12 sessions
	Quality Specifications	S19
	Quality Control Tools	S20,S21
	Resources Procurement and Allocation	S22
	Systems and Processes	S23
	Communications and Documentation	S24
	Managing Teams	S25
	Resources Demobilization	S26
	Project Simulation and Risk Assessment	S27,S28
	Use of IT tools	S29,S30
5	Project Monitoring and Control	4 sessions
	Project Work Measurement	
	Performance Measurement	S31
	Earned Value Management	S32, S33
	Estimate Revision	S34
6	Project Closure and Review	3 sessions
	Performance Evaluation – Scope, Time and Cost	S35
	Performance of Teams	S36
	Lessons Learnt	S37
	Project Closure Report	S37
	Activity and Project Crashing	S16
	Resources Scheduling	S17, S18
7	Integrated Examples/Cases	4 sessions
	TOTAL Lecture Hours	41 sessions = 41 hours
	Quizzes/Tests and Final Exam	4 hours
	TOTAL Course Hours	45 hours

Reference Books:

1. *PMBOK*® Guide, 4th Edition
2. Mantel Jr., Samuel J., Jack R. Meredith, Scott M. Shafer, Margaret M. Sutton with M. R. Gopalan (2006) Project Management Core Text Book, First Indian Edition, Wiley, New Delhi.
3. Meredith, Jack R., and Samuel J. Mantel, Jr. (2010) Project Management: A Managerial Approach, 7/e, Wiley, New Delhi.
4. Maylor, Harvey (2003) Project Management, 3/e, Pearson, New Delhi.
5. Pinto, Jeffrey K. (2009) Project Management: Achieving Competitive Advantage and MS Project, 1/e, Pearson, New Delhi.
6. Gray, Clifford and Erik Larson (2005) Project Management: The Managerial Process, 3/e, Tata McGraw-Hill, New Delhi.
7. Nicholas, John M. (2008) Project Management for Business, Engineering and Technology: Principles and Practice, 3/e, Elsevier, New Delhi.

The following reference books cover each of the different topics in the above syllabus in a variety of ways. Hence, teachers and students are advised to develop relevant notes from all the reference books for gaining a wider and wholesome understanding of each topic.