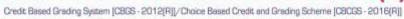


DEPARTMENT OF INFORMATION TECHNOLOGY (IT)





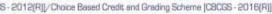
University of Mumbai

D. Syllabus Detailing and Learning objectives

Module	Chapter	Detailed Content	Syllabus Detailing	Learning Objectives
Module 1	An Overview of IT project managem ent & project integratio n managem ent (8 Hours)	Introduction, the state of IT project management, need of project management, project goals, project life cycle at development, information methodology (ITPM), project fea proposal (RFP), the business case approval, project contracting, PN project management process, Integration management, the project charter, project planning framework, the contents of a project plan, the planning process.	Cycle (PLC) and use of project management principles across all the phases of PLC. Scope – 1. Academic Aspects- Understanding project life cycle & its applications in project management aligned with business case & project charter plan. 2. Technology Aspect- Project management tool(MS project) 3. Application Aspect- Development of business	 To describe project life cycle & its ap to project management.(U) To Distinguish between PLC & SDLets. To Compare product oriented process project management process.(E) To Estimate project plan(U).
Module 2	Project Scope Manage ment & work breakdo wn structure	Introduction, scope planning, project scope definition, project scope verification, scope change control, the Work Breakdown Structure (WBS), the linear responsibility chart	Purpose- Understand to define the scope of the project & prepare work breakdown structure. Scope — 1. Academic Aspects-Understanding scope statement & develop DDT & DSC . 2. Technology Aspect-WBS tool 3. Application Aspect- To	1.To Compare between DDT & DSC.(E) 2. To Sketch work breakdown structure given case study.(AN) 3. To summarize scope management pl



TCET DEPARTMENT OF INFORMATION TECHNOLOGY (IT)



		ENGINEEDS	012[R]]/Choice Based Credit and Grading Scheme University of Mumbai	[CBCGS - 2016[R]] CEI
			define the scope for given case study & prepare work breakdown structure.	
			Students Evaluation – Theory questions based	
			on	
			1. Explain project scope	
			management plan.	
			2. Define scope grope,	
			scope creep, scope leap,	
			projectitis	
			3. Explain work	
			breakdown structure with	
			example? How does it	
			map to DDT & DSC?	
lodul 3	Project Time & cost managem ent	Introduction, developing the project schedule, Scheduling Charts, logic diagrams and network (AOA, AON), critical path, calendar	Purpose- To understand how to estimate the schedule & budget of the project.	To Summarize project scheduling techniques. (U) 2. To Sketch project network diagram. (<i>i</i> 3. To Understand resource loading & relevelling .(U)
		scheduling and time based network management. Cost estimating, cost escalation, Project cost accounting & MIS, Budgeting using cost accounts, cost schedule & forecast.	Scope – 1. Academic Aspects- Understanding project scheduling techniques like AON, PERT, PDM & various costs incurred in the project. 2. Technology Aspect- project management tool to prepare project network diagram. 3. Application Aspect- To prepare project network diagram like Gantt chart, time line chart using MS project tool or MS Visi Students Evaluation – Theory questions based	

on



TCET DEPARTMENT OF INFORMATION TECHNOLOGY (IT)



Credit Based Grading System [CBGS - 2012[R]]/Choice Based Credit and Grading Scheme [CBCGS - 2016[R]]

University of Mumbai

		T		· -
			1. Calculate ES, EF, LS &	
			LF.	
			2. Draw AON diagram for	
			the given activities &	
			calculate critical path.	
			3. What is Resource	
			loading & resource	
			leveling?	
Module 4	Project Risk Manage ment	Risk Identification, Risk Analysis, Resource Loading, Allocating Scarce Resource to the project	Purpose – Students get familiar with identification of various risks related to the project. To understand the process of risk analysis and the factors to be considered for risk analysis process.	1. To define risk and project risk management(R) 2. To describe risk planning and identification.(A) 3. To compare qualitative and quantitat techniques.(E)
			Scope – 1.Academic Aspects- Risk identification and Risk analysis process. Process of Resource loading 2. Technology Aspect- Ishikawa Diagram, Pareto Chart, Normal and Binomial Distribution Student Evaluation - Theory questions based on 1) Explain IT Project Risk Management process. 2) Sketch IT Project Risk identification framework 3) Explain risk identification tools and techniques. 4) Explain Tusler's risk identification scheme 5) Explain Monte Carlo simulation	
Module 5	Project Communi cation, and metrics	Project Communication Planning, Project Metrics,Information Distribution, Introduction to Change Management,Nature of Change,Change Management Plan,Conflict Management,Approaches to Conflict	Purpose – To make students familiar with project communication planning process, metrics for measuring project quality and change management.	1. Define Earned Value and Budgeted Completion(R) 2. To analyzeproject communication plachange management process. (AN) 3. To describe various cost and schedul (U)
				4. To compare different reporting techn



TCET DEPARTMENT OF INFORMATION TECHNOLOGY (IT) Credit Based Grading System [CBGS - 2012[R]]/Choice Based Credit and Grading Scheme [CBCGS - 2016[R]]



University of Mumbai

				(E)
			Scope – 1. Academic Aspects- Learning of project communication planning process and change management and its impact on the project. 2. Technology Aspect- Function Point and COCOMO model	
			Student Evaluation – 1. Explain project communication plan with the help of an example. 2. Explain various cost metrics? 3. Explain various schedule metrics? 4. Explain what is a change	
			and the process involved in	
Module	Project	Project Procurement, Types of Cost,	change management. Purpose –	1. To characterize various requirement
6	Procurem ent, Leadershi p and Ethics	Outsourcing, Project Leadership, Leadership Styles, Ethics in Projects, Project implementation, Administrative Closure, Project Sponsor, Final Meeting and Presentation, Closing the project	To make students learn project procurement, leadership, ethics and project closure.	outsourcing(R) 2. To distinguish between types of cost leadership styles(U) 3. To specify ethics in project management(C) 4. To examine process(A)
			Scope – 1. Academic Aspects- Understanding the project procurement process and types of costs. Understanding the leadership styles and the process of project closure. 2. Application Aspect- Outsourcing concept	



TCET DEPARTMENT OF INFORMATION TECHNOLOGY (IT)



Credit Based Grading System [CBGS - 2012[R]]/Choice Based Credit and Grading Scheme [CBCGS - 2016[R]]

University of Mumbai

Student Evaluation –	

	Student Evaluation –
	1. Explain various types of cost in the project procurement process
	2. Explain various Leadership styles?
	3 Explain project closure