



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
ITC701	Software Project Management	4	-	-	4	-	-	4
		Examination Scheme						
		ISE		MSE		ESE		
		10	30	100 (60% Weightage)				

Pre-requisite Course Codes	TEITC (Software Engineering)	
After successful completion of the course, student will be able to:		
Course Outcomes	CO1	Outline the business case of their project and find MOV
	CO2	Schematize the software project using WBS and network diagrams
	CO3	Measure the effectiveness of project progress by doing earned value analysis
	CO4	Demonstrate the ability to communicate and collaborate with team members in extreme project management style
	CO5	Carry out the cost effectiveness to keep the cost under control

Module No.	Topics	Ref.	Hrs.
1	An overview of IT Project Management: Introduction, the state of IT project management, context of project management, need of project Management, project goals, project life cycle and IT development, information technology project methodology (ITPM), project feasibility, request for proposal (RFP), the business case, project selection and approval, project contracting, PMBOK	1	4
2	Project Integration Management: Introduction, project management process, project integration management, the project charter, project planning framework, the contents of a project plan, the planning process.	1	4
3	Project Scope Management: Introduction, scope planning, project scope definition, project scope verification, scope change control, the Work Breakdown Structure (WBS), the linear responsibility chart.	1, 2	4



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4	Project Time Management: Introduction, developing the project schedule, Scheduling Charts, logic diagrams and network (AOA, AON), critical path, calendar scheduling and time based network, management schedule reserve, PDM network, PERT, CPM, Resource loading, resource leveling, allocating scarce resources to projects and several projects, Goldratt's critical chain.	1, 2	10
5	Project Cost Management: Cost estimating, Cost escalation, Cost estimating and system development cycle, Cost estimating process, Elements of budgets and estimates, Project cost accounting and MIS, Budgeting using cost accounts, Cost schedules and forecasts.	1, 2	4
6	Project Quality Management: Introduction, Quality tools and philosophies, quality systems, the IT project quality plan.	1	3
7	Project Resource Management: Human Introduction, organization and project planning, the project team, multidisciplinary teams, the project environment, project leadership, ethics in projects, multicultural projects, Role of project manager, IT governance and the project office. Introduction to change, the nature of change, the change management plan, dealing with resistance and conflicts.	1, 2	5
8	Project Communication Management: Introduction, monitoring and controlling the project, the project communications plan, project metric, project control, designing the control system, the plan-monitor control cycle, data collection and reporting, reporting performance and progress, information distribution	1, 2	4
9	Project Risk Management: Basic concepts, Identification, Assessment, Response planning, Management	1	4
10	Project Procurement Management: Introduction, project procurement management, outsourcing.	1, 3	3
11	The Implementation Plan and Project Closure: Introduction, project implementation, administrative closure, project evaluation, project audit.	1	3
Total			48

References:

1. Jack T. Marchewka, "*Information Technology Project Management*", 4th edition, Wiley India, 2009.
2. John M. Nicholas, "*Project Management for Business and Technology*", 3rd edition, Pearson Education.
3. R S. J. Mantel, J. R. Meredith and etal., "*Project Management*" 1st edition, Wiley India, 2009.
4. 4. Joel Henry, "*Software Project Management, A real-world guide to success*", Pearson Education, 2008.