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
CPE6012	Elective-ISoftware Project Management	-	-	2+2*	-	-	2	2

		Examination Scheme				
		ISE	ESE		Total	
			Practical	Oral		
		50	-	-	50	

Pre-requisite Course Codes	CPC602 (Software Engineering)

At end of successful completion of this course, student will be able to

Course Outcomes	CO1	To define characteristics of a project.
	CO2	To appreciate project management principles, risk in environment and the management challenges for effective project management.
	CO3	To apply the project management principles across all phases of a project.
	CO4	To demonstrate use of tools and techniques for the management of a project plan, monitor and controlling a project schedule and budget, tracking project progress

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 lifecycle and IT development, extreme project management, PMBOK.	1-11	02
2	**Conceptualizing and Initializing the IT Project** Aninformation technology project methodology (ITPM), project feasibility, request for proposal (RFP), the business case, project selection and approval, project contracting, IT governance and the project office.	1-11	04
3	**The Human Side of Project Management** Introduction, organization and project planning, the project team, theproject environment.	1-11	02
4	**Developing the Project Charter and Project Plan** Introduction, project management process, project integration management, the project charter, project planning framework, the contents of a project plan, the planning process, The Work Breakdown Structure (WBS), the linear responsibility chart, multidisciplinary teams.	1-11	04

5	**The Scope Management Plan** Introduction, scope planning, project scope definition, project scope verification, scope change control.	1-11	04
6	**The Project ís Schedule, Budget and Risk Management** Introduction, developing the project schedule, project management, software tools, methods of budgeting, developing the project budget, improving cost estimates, finalizing the project schedule and budget. IT project risk management planning process, identifying IT project risks, risk analysis and assessment, risk strategies, risk monitoring, and control, risk responses and evaluation.	1-11	08
7	**Allocating Resources to the Project** Resource loading, resource leveling, allocating scarce resources to projects and several projects, Goldrattís critical chain.	1-11	03
8	**The Project Communication Plan** 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.	1-11	02
9	**Managing Change, Resistance and Conflicts**	1-11	02
10	**Managing Project Procurement and Outsourcing** Introduction, project procurement management, outsourcing.	1-11	02
11	**Project Leadership and Ethics** Introduction, project leadership, ethics in projects, multicultural projects.	1-11	01
12	**The Implementation Plan and Project Closure** Introduction, project implementation, administrative closure, project evaluation, project audit.	1-11	02
		Total	**36**

References:
[1] Jack T. Marchewka, "Information Technology Project Management", Wiley India,3rd edition,2009.
[2] S. J. Mantel, J. R. Meredith and etl.. "Project Management" 1st edition, Wiley India 2009
[3] John M. Nicholas, "Project Management for Business and Technology", 2nd edition, Pearson Education.
[4] Joel Henry, "Software Project Management, A real-world guide to success", Pearson Education, 2008.
[5] Gido and Clements, "Successful Project Management", 2nd edition, Thomson Learning.
[6] Hughes and Cornell, "Software Project Management", 3rd edition, Tata McGraw Hill
[7] Joseph Phillips, "IT Project Management", 2nd edition, Tata McGraw Hill
[8] Robert K. Wyzocki and Rudd McGary, "Effective Project Management", 3rd edition, Wiley

[9] Brown, K.A. Project Management, McGraw Hill, 2002.

[10]   E-Book – Project Management Body of Knowledge.

[11]   Dinsmore, P. C. (Ed.). (1993) The AMA Handbook of Project Management. AMACOM