

FR. Conceicao Rodrigues College Of Engineering
 Father Agnel Ashram, Bandstand, Bandra-west, Mumbai-50
Department of Information Technology

B.E. (IT) (semester VII) (2018-2019)

Lesson Plan

Subject: Software Project Management(ITC701)

Credits-4

SYLLABUS

Sr. No	Module	Detailed Content	Hours
1	An overview of IT Project management	Introduction need of PM, Project goal ,Project life cycle, ITPM, Project feasibility, business case, Business case, Project selection and approval, PMBOK	
2	Project Integration Management	Integration management process, project planning framework, Project charter, Contents of project plan, The planning process	
3	Project Scope Management	Intro. To scope management, project scope definition, Managementproject scope verification, scope change control, theWork Breakdown Structure (WBS), the linearresponsibility chart	
4	Project Time Management	Introduction, developing the project schedule, ManagementScheduling Charts, logic diagrams and network (AOA,AON),	
5	Project Cost Management	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 severalprojects, Goldratt's critical chain.	
6	Project Quality Management	Cost estimating, Cost escalation, Cost estimating andManagement, system development cycle, Cost estimating process, Elements of budgets and estimates, Project cost accounting and MIS, Budgeting using cost accounts, Cost schedules and forecasts.	
7	Project Human Resource Management	Introduction, organization and project planning, theResource, the changemanagement plan, project team, multidisciplinary teams, the projectManagementenvironment, project leadership, ethics in projects,multicultural projects, Role of project manager, ITgovernance and the project office.	

		Introduction to change, the nature of change, dealing with resistance and conflicts.	
8	Project Communication Management	Introduction to communication management, monitoring and controlling the project, the Communication plan, project metric project Management control, designing the control system, the plan monitor control cycle data collection and reporting, Reporting performance and progress, information distribution.	
9	Project Risk Management	Risk management-Basic concepts, Identification, Assessment, Response Management, planning, Management.	
10	Project Procurement Management	Introduction, project procurement management, Procurement outsourcing.	
11	The Implementation Plan and Project Closure	Introduction, project implementation, administrative Implementation, closure, Project evaluation and audit.	

Internal Assessment:

Internal Assessment consists of two tests. Test 1, an Institution level central test, is for 20 marks and is to be based on a minimum of 40% of the syllabus. Test 2 is also for 20 marks and is to be based on the remaining syllabus. Test 2 may be either a class test or assignment on live problems or course project.

CO-Statements:

Sr.No.	Course Outcome Statement
CO1	Justify an IT project by establishing a business case
CO2	Demonstrate a project charter
CO3	Estimate resources (time, cost, people etc.
CO4	Apply quality concepts, methods and tools to develop project Quality plan
CO5	Identify IT project risks and apply risk mitigation strategies

CO-PO-PSO Mapping

Course Name	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO 1	PSO 2
CO1	1	1	2							1	2		1	
CO2		1							2	2	3		1	1
CO3		2						2			2		1	
CO4		1									2			2
CO5		1		2							2			2

CO Assessment Tools

	Indirect Methods					
	Test	Assignment	LAB	End Sem Exam (W)	End Sem Exam (O)	Course Exit Survey
CO1	20%(test1)	20%	25%	10%	25%	100%
CO2	20%(test1)	20%	25%	10%	25%	100%
CO3	20%(test1,test2)	20%	25%	10%	25%	100%
CO4	20%(test2)	20%	25%	10%	25%	100%
CO5	20%(test2)	20%	25%	10%	25%	100%

Lecture Plan:

Sr. No.	Topic	Planned Date	Actual Date	Delivery Mechanisms
1	Introduction need of PM.	3/7/17	3/7/17	Black board and chalk
2	Project goal ,Project life cycle, ITPM	4/7/17	4/7/17	Projector

3	Project feasibility, business case	5/7/17	5/7/17	Projector
4	Business case, Project selection and approval, PMBOK	6/7/17	6/7/17	Black board and chalk
5	Integration management process, project planning framework	10/7/17	10/7/17	Black board and chalk
6	Project charter, Contents of project plan	12/7/18	11/7/18	Projector
7	The planning process	13/7/18	12/7/18	Projector
8	Intro. To scope management, project scope definition	17/7/18	17/7/18	Projector
9	Management project scope verification, scope change control	18/7/18	19/7/18	Projector
10	Work Breakdown Structure (WBS),	19/7/18	20/7/18	Projector
11	the linear responsibility chart	20/7/18	20/7/18	Projector
12	Introduction, developing the project schedule, Management Scheduling Charts	24/7/18	24/7/18	Projector
13	logic diagrams and network (AOA,AON),	25/7/18	25/7/18	Black board and chalk
14	critical path, calendar scheduling and time based network,	26/7/18	26/7/18	Black board and chalk
15	management schedule reserve, PDM network	27/7/18	27/7/18	Black board and chalk
16	PERT, CPM,	31/7/18	1/8/18	Black board and chalk
17	Resource loading, resource leveling, allocating scarce resources to projects and several projects,	1/8/18	2/8/18	Projector
18	Goldratt's critical chain.	2/8/18	3/8/18	Black board and chalk
19	Cost estimating, Cost escalation, Cost estimating and Management,	3/8/18	7/8/18	Projector
20	system development cycle, Cost estimating process, Elements of budgets and estimates,	7/8/18	8/8/18	Projector
21	Project cost accounting and MIS, Budgeting using cost accounts, Cost schedules and forecasts.	8/8/18	9/8/18	Projector
22	Introduction, Quality tools and philosophies,	9/8/18	21/8/18	Projector
23	quality Management systems	10/8/18	23/8/18	Projector
24	The IT project quality plan.	21/8/18	28/8/18	Projector
25	Introduction, organization and project planning, the Resource, the change management plan,	23/8/18	29/8/18	Projector
26	project team, multidisciplinary teams, the project Management environment	24/8/18	30/8/18	Projector
27	project leadership, ethics in projects, multicultural projects,	28/8/18	31/8/18	Projector
28	Role of project manager, IT governance and the project	29/8/18	4/9/18	Projector

	office.			
29	Introduction to change, the nature of change, dealing with resistance and conflicts.	30/8/18	5/9/18	Projector
30	Introduction to communication management, monitoring and controlling the project,	31/8/18	6/9/18	Projector
31	The Communication plan, project metric project Management control, designing the control system,	4/9/18	7/9/18	Projector
32	the plan monitor control cycle data collection and reporting, Reporting performance and progress, information distribution.	5/9/18	11/9/18	Projector
33	Risk management-Basic concepts, Identification,	6/9/18	12/9/18	Projector
34	Identification, Assessment,	7/9/18	18/9/18	Projector
35	Response Management,	11/9/18	19/9/18	Projector
36	planning, Management.	12/9/18	19/9/18	Projector
37	Revision	18/9/18	21/9/18	Projector
38	Introduction, project procurement management,	19/9/18	24/9/18	Projector
39	Project procurement management, Procurement outsourcing,	21/9/18	25/9/18	Projector
40	Introduction, project implementation	25/9/18	26/9/18	Projector
41	administrative Implementation, closure,	26/9/18	27/9/18	Projector
42	Project evaluation and audit.	27/9/18	27/9/18	Projector

Lab Plan for Software Development Lab

Lab Plan: SPM

Sr. No	Topic	Week No	Lab outcome
1	To provide executive summary for company	Week1	CO1
2	To develop Business case	Week2	CO2
3	To develop Project Charter	Week3	CO2
4	To perform scope management	Week 3	CO3
5	To develop Gantt chart(scheduling)	Week5	CO3
6	To perform AON and PERT analysis	Week5	CO3

7	To perform Cost estimation	Week6	CO5
8	To perform Risk management	Week6	CO4
9	To perform quality management	Week7	LO2

Assignment Plan:

Assignment No	Date	Questions	CO/LO
1	25/7/2018	Q.1 justify an IT project by establishing a business case for online examination system.	CO1
2	25/7/2018	Q.1 State Project Infrastructure for Online examination system	CO2
3	15/8/1018	Problems on Scheduling	LO3
4	4/9/2018	<p>Online Mobile Recharge Portal Project</p> <p>Online Mobile Recharge is a web-based application developed in ASP.NET to recharge mobile phones. The project focuses at providing an easy and reliable platform to recharge mobile of any telecommunication company through online without buying recharge card. The registered users of the system can recharge their prepaid mobile phones from anywhere at any time. The proposed project for recharging mobiles developed to</p>	LO4

		<p>automate the mobile recharging process. It roots out the manual card system of recharge and introduces a new and genuine online recharge process. The online mobile recharge system is beneficial to both the admins and users. Using the online application, the admin can add new operators, tariff plans, offers and update or modify the existing tariff plans. It helps the users in creating their account, and then recharging the mobiles phones at any time.</p> <p>Develop Risk management plan for above project The plan should include</p> <ol style="list-style-type: none"> a. Using the IT project risk framework , identify total five risks for above project. b. Develop risk impact table. c. Develop risk response plan for all risks 	
<p>Assignment 5</p>		<p>Online Mobile Recharge Portal Project</p> <p>Online Mobile Recharge is a web-based application</p>	

		<p>developed in ASP.NET to recharge mobile phones. The project focuses at providing an easy and reliable platform to recharge mobile of any telecommunication company through online without buying recharge card. The registered users of the system can recharge their prepaid mobile phones from anywhere at any time. The proposed project for recharging mobiles developed to automate the mobile recharging process. It roots out the manual card system of recharge and introduces a new and genuine online recharge process. The online mobile recharge system is beneficial to both the admins and users. Using the online application, the admin can add new operators, tariff plans, offers and update or modify the existing tariff plans. It helps the users in creating their account, and then recharging the mobiles phones at any time.</p> <p>Develop Quality management plan for above project The plan should include</p>	
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		<ul style="list-style-type: none"> a. The short statement that reflects your teams objectives for ensuring that you deliver a quality system to your client. b. Develop and describe quality based metrics: two process metrics, two product metrics and two project metrics that can use to monitor the quality of your project. c. Develop and describe a set of verification activities that project team could implement to ensure quality. <p>Develop and describe a set of validation exercises that your project team could implement to ensure quality</p>	
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Term Work:

Term Work:

Term Work shall consist of full Mini Project on above guidelines/syllabus. Also Term work Journal must include at least 2 assignments.

Term Work Marks: 25 Marks (Total marks) = 15 Marks (Case Study) + 5 Marks (Assignments) + 5 Marks (Attendance)

Oral Exam: An Oral exam will be held based on the Case Study and Presentation.