ITA5001	Software Project Management	L	T	P	J	C
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Pre-requisite	**Nil**	**Syllabus version**				
		1.1				

Course Objectives:

1. To explore the characteristics of Software projects and understand the project management activities
2. To gain knowledge on estimation techniques of software projects and to know about Risk Management
3. To provide an exposure to Monitor and Control of software projects and to learn how to manage people and build the effective team

Expected Course Outcomes:

1. Demonstrate knowledge of the fundamental elements and concepts related to Project Management activities and types of software projects.
2. Analyse the Steps involved in analyzing the Software projects and concepts to meet the estimation of the software Projects.
3. Schedule the activities of the project to get a critical path.
4. Develop an activity network to perform PERT and to get knowledge of Risk Management
5. Use and apply Visualization techniques for planning the activities related to Software projects.
6. Gain knowledge on contracts management.
7. Estimate the organizing team based on industry exposure.

Student Learning Outcomes (SLO):	**2,12,13**

[2] Having a clear understanding of the subject related concepts and of contemporary issues

[12] Having adaptive thinking and adaptability

[13] Having cross cultural competency exhibited by working in teams-

Module:1	**Introduction to software project management**	**4 hours**

Project Definition – Types of Project –Problem with Software Project- Activities covered By Software Project Management – Management Control Cycle.

Module:2	**Step wise approach and Project evaluation**	**5 hours**

Step wise approach for planning the software project- Product break down structure for identifying the project activities- Strategic Assessment – Technical Assessment –Cost Benefit Evaluation Techniques – Risk Evaluation

Module:3	**Activity planning**	**6 hours**

Objectives – Project Schedule –Activity based approach- Product based approach- Hybrid approach Sequencing and Scheduling Activities –Network Planning Models – Forward Pass – Backward Pass.

Module:4	**Risk management**	**4 hours**
Nature Of Risk – Types Of Risk – Managing Risk – Software project risk and strategies to reduce the risk- PERT using three estimates.		
Module:5	**Monitoring**	**3 hours**
Creating Framework – Collecting The Data – Visualizing Progress – Cost Monitoring – Earned Value Analysis		
Module:6	**Control**	**3 hours**
Change Control – Managing Contracts – Introduction – Types Of Contract – Contract Management		
Module:7	**Managing people and organizing teams**	**3 hours**
Introduction – Understanding Behaviour – Organizational Behaviour: A Background – Selecting The Right Person For The Job – Working in group- Decision Making- Leadership.		
Module:8	**Contemporary issues:**	**2 hours**
Expert talk		
	Total Lecture hours:	**30 hours**

Text Book(s)	
1.	Mike Cotterell, Bob Hughes, Rajib Mall - Software Project Management, 2011, 5TH Edition, Tata McGraw-Hill.
Reference Books	
1.	Greg Horine-Project Management Absolute Beginner's Guide, 2012, 3rd Edition, Que Publishing.

Mode of Evaluation: CAT / Assignment / Quiz / FAT / Project / Seminar			
Mode of assessment:			
Recommended by Board of Studies	12-08-2017		
Approved by Academic Council	47th	Date	05-10-2017