ITE2014	Software Project Management	L	T	P	J	C
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Pre-requisite	**ITE1005**	**Syllabus version**				
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Course Objectives:

- To learn project management activities
- To learn cost benefit analysis for project evaluation
- To know network planning model for project scheduling
- To learn risk management techniques

Expected Course Outcome:

1) Define the success criteria for a project and understand some problems and concerns of software project managers.

2) Describe the project portfolio management and carry out an evaluation and selection of projects against strategic, technical and economic criteria.

3) Develop an activity plan for project and estimate the overall duration of a project by creating a critical path and a precedence network.

4) Identify the factors putting a project at risk and categorize and prioritize actions for risk elimination or containment.

5) Monitor the progress of projects, assess the risk of slippage, visualize and assess the state of a project, revise targets to correct or counteract drift.

6) Comprehend to reduce the unnecessary stress and threats to health and safety, identify some of the factors that influence people's behaviour in a project environment.

7) Understand and comprehend the best methods for organizational behavior and management.

Student Learning Outcomes (SLO):	2, 4, 10

[2]	Having a clear understanding of the subject related concepts and of contemporary issues
[4]	Having Sense-Making Skills of creating unique insights in what is being seen or observed (Higher level thinking skills which cannot be codified)
[10]	Having a clear understanding of professional and ethical responsibility

Module:1	Introduction To Software Project Management	3 hours

Project Definition – Contract Management – Activities covered By Software Project Management – Overview of Project Planning – Stepwise Project Planning.

Module:2	Project Evaluation	4 hours

Strategic Assessment – Technical Assessment – Cost Benefit Analysis –Cash Flow Forecasting – Cost Benefit Evaluation Techniques – Risk Evaluation

Module:3	Activity Planning	4 hours
Objectives – Project Schedule – Sequencing and Scheduling Activities –Network Planning Models – Forward Pass – Backward Pass – Activity Float – Shortening Project Duration – Activity on Arrow Networks		
Module:4	Risk Management	4 hours
Nature Of Risk – Types Of Risk – Managing Risk – Hazard Identification – Hazard Analysis – Risk Planning And Control		
Module:5	Monitoring	3 hours
Creating Framework – Collecting The Data – Visualizing Progress – Cost Monitoring – Earned Value – Prioritizing Monitoring – Getting Project Back To Target		
Module:6	Control	4 hours
Change Control – Managing Contracts – Introduction – Types Of Contract – Stages In Contract Placement – Typical Terms Of A Contract – Contract Management – Acceptance.		
Module:7	Managing People And Organizing Teams	5 hours
Introduction – Understanding Behavior – Organizational Behavior: A Background – Selecting The Right Person For The Job – Instruction In The Best Methods – Motivation – The Oldham – Hackman Job Characteristics Model – Working In Groups – Becoming A Team –Decision Making – Leadership – Organizational Structures – Stress –Health And Safety – Case Studies.		
Module:8	Contemporary issues:	3 hours
	Total Lecture hours:	30 hours

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

Recommended by Board of Studies	05-03-2016		
Approved by Academic Council	No. 40	Date	18-03-2016