SOFTWARE PROJECT MANAGEMENT

Course Code	19IT4601D	Year	III	Semester	II
Course Category	PE	**Branch**	IT	**Course Type**	Theory
Credits	3	**L-T-P**	3-0-0	**Prerequisites**	SE
Continuous Internal Evaluation:	30	**Semester End Evaluation:**	70	**Total Marks:**	100

	Course Outcomes	Blooms Taxonomy Level
Upon successful completion of the course, the student will be able to		
CO1	Understand the basic concepts and issues of software project management	**L2**
CO2	Develop the skills for tracking and controlling software deliverables	**L5**
CO3	Conduct activities necessary to successfully complete and close the Software projects	**L3**
CO4	Evaluate project plans that address real-world management challenges	**L5**

Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (3:Substantial, 2: Moderate, 1:Slight)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1							2						2	3
CO2							2	2						
CO3											3			2
CO4								2			3	2	1	3

Syllabus		
Unit No	Contents	Mapped CO
I	**Introduction to Project Management**: Software Project Management activities, Challenges in software projects, Stakeholders, Objectives & goals Project Planning: Step-wise planning, Project Scope, Project Products & deliverables, Project activities, Effort estimation, Infrastructure.	CO1
II	**Project Approach**: Lifecycle models, Choosing Technology, Prototyping Iterative & incremental Process Framework: Lifecycle phases, Process Artifacts, Process workflows (Book 2) Effort estimation & activity Planning Estimation techniques, Function Point analysis, SLOC, COCOMO, Use case-based estimation, Activity Identification Approaches, Network planning models, Critical path analysis	CO2
III	**Risk Management**: Risk categories, Identification, Assessment, Planning and management, PERT technique, Monte Carlo approach.	CO2,CO3
IV	**Project Monitoring & Control**: Resource Allocation Creating a framework for monitoring & control, Progress monitoring, Cost monitoring, Earned value Analysis, Defects Tracking, Issues Tracking, Status reports, Types of Resources, Identifying resource requirements, Resource scheduling	CO2,CO3
V	**Software Quality**: Planning Quality, Defining Quality – ISO 9016, Quality Measures, Quantitative Quality Management Planning, Product Quality & Process Quality Metrics, Statistical Process Control Capability Maturity Model, Enhancing software Quality (Book3)	CO4

Learning Resources
Text books
1. Software Project Management, Bob Hughes & Mike Cotterell, TATA Mcgraw-Hill,2017 2. Software Project Management, Walker Royce: Pearson Education, 2005. 3. Software Project Management in practice, Pankaj Jalote, Pearson,2015.
Reference
1. Project Management for Business, Engineering and Technology Nicholas, J. and Steyn 5th edition, ELSEVIER. 2017 2. Project Planning, Analysis, Selection, Implementation and Review Prasanna Chandra 9th edition, New Delhi, Tata McGraw Hill Publications 2019
e-Resources and other Digital Material
1. http://ebooks.lpude.in/management/mba/term_4/D CAP304_DCAP515_SO FTWARE_PROJECT_M ANAGEMENT.pdf 2. Information Technology Project Management Kathy Schwalbe 8th Edition Thompson 2015 3. https://files.transtutors.co m/cdn/upload assignment s/2411827_1_informatio n-technology-project management--8-edition- .pdf