Course code: Course Title	Course Structure			Pre-Requisite
SE423: Software Project	L	T	P	NIL
Management	3	0	2	

Course Objective: To introduce concepts of software planning, estimation, and time scheduling.

S. NO	Course Outcomes (CO)
CO1	Understand project management concepts, process frameworks, and software life cycle models.
CO2	Apply cost and scheduling estimation models, including COCOMO II and Putnam.
CO3	Apply and analyze project management techniques, including risk management, tracking, and quality control.
CO4	Evaluate project closure processes and software management methodologies.
CO5	Evaluate advanced software project management practices and emerging trends.

S.No.	Contents	Contact
		Hours
UNIT 1	Introduction: Project Management concepts, Process Framework, Project	
	Planning Software Life Cycle Models, Artifacts of the Project Management	6
	Process.	
UNIT 2	Cost and Scheduling Estimation Models: Various Levels of COCOMO for	_
	Cost, Effort, Schedule and Productivity Estimation. Approaches to Effort, Cost	8
	Estimation, and Schedule Estimation factors through COCOMO II, Putnam	
TINITE O	Estimation Model, Algorithmic models.	
UNIT 3	Project Management Techniques: Project Organizations and	0
	Responsibilities, Establishing Project Environment, Risk Management Process,	8
	Project Tracking and Control Defect Tracking Concepts such as Process	
TINITE 4	monitoring and audit, Reviews, Inspections and Walkthroughs.	
UNIT 4	Project Closure: Project Closure Analysis, Role of Closure Analysis in a	•
	project, Performing Closure Analysis, Closure Analysis Report.	6
UNIT 5	Software Project Management Renaissance: Conventional Software	
	Management, Evolution of Software Economics, Improving Software	6
	Economics, The old way and the new way.	
UNIT 6	Advance Topics in Software Project Management: Discussion on future	
	Software Project Management Practices & Modern Project Profiles, Next	8
	Generation Software Economics, Modern Process Transitions.	
	TOTAL	42

REFERENCES				
S.No.	Name of Books/Authors/Publishers	Year of Publication / Reprint		
1.	Watts S. Humphrey, "Managing the Software Process", Pearson Education.	1989		
2.	Bob Hughes, Mike Cotterell, "Software Project Management", Tata McGraw Hill, 5 th Edition.	2009		
3.	Ian Sommerville, "Software Engineering", Addison Wesley, 10 th Edition.	2017		