

Software Project Management

Course Code	20CS4702B	Year	IV	Semester	I
Course Category	PEC	Branch	CSE	Course Type	Theory
Credits	3	L-T-P	3-0-0	Prerequisites	Software Engineering
Continuous Evaluation :	30	Semester End Evaluation:	70	Total Marks:	100

Course Outcomes

Upon successful completion of the course, the student will be able to

CO1	Understand the fundamentals of Project Management principles while developing software.	L2
CO2	Apply a suitable software process model to develop a project.	L3
CO3	Apply the effort Estimation techniques to prepare accurate project estimation	L3
CO4	Analyze and estimate cost, risk and outline the project plan	L4

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	3				1							1		
CO2									1			1		2
CO3	3		1						1			1		
CO4		2				1	1					1		

Syllabus		Mapped CO
Unit No.	Contents	
I	Introduction to Software Project Management Introduction, Why is Software Project Management Important?, Software Projects versus Other Types of Project, Activities Covered by Software Project Management, Traditional versus Modern Project Management Practices	CO1
II	Project Evaluation and Programme Management Introduction, A Business Case, Project Portfolio Management, Evaluation of Individual Projects, Cost–benefit Evaluation Techniques, Strategic Programme Management, Creating a Programme, Benefits Management	CO1, CO2,CO4
III	Selection of an Appropriate Project Approach Introduction, Build or Buy? Choosing Methodologies and Technologies, Software Processes and Process Models, The Waterfall Model, The Spiral Model, Software Prototyping.	CO1, CO2,CO4
IV	Software Effort Estimation Introduction, Problems with Over and Under-Estimates, The Basis for Software Estimating, COSMIC Full Function Points.	CO1, CO3,CO4
V	Risk Management Introduction, Risk, Categories of Risk, Risk Identification, Risk Assessment, Risk Planning, Risk Management.	CO1, CO2,CO4

Learning Resources

Text Books

1. Software Project Management, Bob Hughes, Mike Cotterell and Rajib Mall, Fifth Edition, Tata McGraw Hill, New Delhi, 2012.

References

1. —Software Project Management in Practicell, Pankaj Jalote, 2002, Pearson, Education Asia.
2. —Information Technology Project Managementll, Jack T Marchewka, Third Edition (International Student Version) , Wiley India
3. —Project Management- Core Textbookll, Samuel J mantel et_al., First India Edition, Wiley India.

e-Resources & other digital material

1. <https://nptel.ac.in/courses/106105218>
2. <https://www.digimat.in/nptel/courses/video/106105218/L01.html>