

PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU, VIJAYAWADA
(AUTONOMOUS)
INFORMATION TECHNOLOGY

OBJECT ORIENTED SOFTWARE ENGINEERING

Course Code	19IT4602D	Year	III	Semester	II
Course Category	Program Elective	Branch	IT	Course Type	Theory
Credits	3	L-T-P	3-0-0	Prerequisites	SE paradigm
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 fundamental phases of software development and the principles underlying Object-Oriented software design.	L2
CO2	Employ formal methods and different roles played to produce effective software designs as solutions to specific tasks.	L3
CO3	Develop structured sets of simple user-defined classes using Object-Oriented principles to achieve overall programming goals.	L3
CO4	Develop error identification and testing strategies for code development.	L3
CO5	Understand modeling for a given problem for better development of the software product to have a high quality	L3

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	1													2
CO2	1		3											2
CO3	1				2									2
CO4	1					2								2
CO5	1					2				3				2
Syllabus														
Unit No	Contents													Mapped CO
I	Software engineering: software related problems, software engineering, concepts, development activities,													CO1

	Project communications: Project communication, modes, mechanisms and activities.	
II	Requirements: Requirements elicitation, concepts , activities and managing requirements elicitation. Analysis: Analysis overview, concepts, activities and managing analysis	CO2
III	System design: Design overview, concepts, activities and managing system design. Object design: Object design overview, concepts, activities and managing object design	CO3
IV	Rationale management: Rational overview, concepts, activities and managing rationale Testing: Testing overview, concepts, activities and managing testing.	CO4
V	Software configuration management: Configuration management overview, concepts, activities and managing configuration management Project management: project management overview, concepts, activities and managing project management models and activities.	CO5

Learning Recourses
Text Books
1. Object-oriented Software engineering: Conquering complex and changing systems, Bernd Bruegge and Allen H. Dutoit. Pearson Education Asia., First edition.
References
1. Object-oriented software engineering: Practical software development using UML and Java Timothy C. lethbridge and Robert Langanieri Mcgraw-Hill Higher Education.
e-Resources & other digital material
NPTEL VIDEO LECTURES