# OBJECT ORIENTED SOFTWARE ENGINEERING

# $(Professional\ Elective-II)$

Course Code	20IT4601C	Year	III	Semester	II	
	PE-2					
Course Category		Branch	IT	Course Type	Theory	
Credits	3	L-T-P	3-0-0	Prerequisites	SE	
<b>Continuous Internal</b>		Semester End				
<b>Evaluation:</b>	30	<b>Evaluation:</b>	70	Total Marks:	100	

Course Outcomes					
Upon Successful completion of 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 a chievement of Program Outcomes & Strength of correlations (3:Substantial, 2:Moderate, 1:Slight)										lations(				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3													2
CO2	3		3											2
CO3	3				2									2
CO4	3					2								2
CO5	3					2				3				2
	Syllabus													
Unit No		Contents								Mapped CO				
I	Software engineering: software related problems, software engineering, concepts, development activities,								C	CO1				
	<b>Project communications</b> : Project communication, modes, mechanisms And activities.													

II	Requirements: Requirements elicitation, concepts, activities and Managing requirements elicitation.  Analysis: Analysis overview, concepts, activities and managing analysis		
III	System design: Design overview, concepts, activities and managing System design.  Object design: Object Design Overview, concepts, activities and managing object design		
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 AllenH.Dutoit .Pearson Education Asia.,First edition.

#### References

1.Object-oriented software engineering: Practical software development using UML and Java Timothy C.lethbridge and Robert Langaniere Mcgraw-Hill Higher Education.

### e-Resources& other digital material

NPTEL VIDEO LECTURES