OBJECT ORIENTED ANALYSIS AND DESIGN

Course Code		Category	Hours / Week			Credits	Maximum Marks		
ACSB10		Core	L	Т	Р	С	CIA	SEE	Total
			3	-	-	3	30	70	100
Contact Classes: 45		Tutorial Classes: Nil	Practical Classes: Nil			Total Classes: 45			
	CTIVES: urse should en	able the students will try	y to lear	n:					
[. []. []]. [V.	UML (2.0) not Use of UML n	analysis and design of soft tation and associated mether netamodel – structural and neering using UML	nodologi	ies.		s, and their	extensio	ns.	
	SE OUTCOM end of the cour	ES: rse, the students are able	e to:						
CO 1 CO 2 CO 3	analysis and d Make use of l of system in u Demonstrate	rtance and use of basic pri- lesign of given scenarios. building blocks and differ nified software developm static and dynamic aspec- interaction of objects duri	ent view ent life ts of the	vs for c cycle. systen	reating	g conceptua	l model	architect	ural view
CO 4	Identify basic building blocks for visualizing objects of an object-oriented system.								
CO 5		uilding blocks in structura e relationships.	al and be	ehavio	ral moo	deling of a s	software	system f	for
CO 6	Classify struc	tural modeling of system	for repre	esentin	g fram	ework with	UML d	iagrams.	
CO 7	Illustrate behavioral modeling of system for conveying dynamic concepts of the system.								
CO 8	Categorize behavioral modeling for visualizing flow control of objects and activities of specified case study like next gen POS system.								
CO 9	Make use of o	common modeling technic	ques in V	UML f	or mod	leling of rea	al time a	pplicatio	ns.
CO 10	Develop archi	tectural model of a scenar	rio for p	reparir	ıg outli	ine of the en	ntire syst	tem.	
CO 11 CO 12 CO 13	static and dyn Apply knowle and solve ther	onduct experiments as well	er scienc	e to fo	rmulat	e and analy	ze probl	ems in c	omputing
MOL	OULE-I IN	TRODUCTION TO UM	IL					Clas	sses: 10
concept		: Importance of model the UML, architecture,	•	<u> </u>		•	0		

MODULE-II	ADVANCED BEHAVIORAL MODELING	Classes: 09								
Advanced classes, advanced relationships, interfaces, types and roles, packages, terms, concepts;										
Class and Object Diagrams: Terms, concepts, common modeling techniques for class and object diagrams.										
MODULE-III	ARCHITECTURAL MODELING	Classes: 08								
Basic Behavioral Modeling - I: Interactions, Interaction diagrams.										
Basic Behavioral Modeling-II: Use cases, Use case Diagrams, Activity Diagrams.										
MODULE-IV	ADVANCED BEHAVIORAL MODELING	Classes: 09								
Events and signals, state machines, processes and threads, time and space, state chart and state chart diagrams. Case study: The next gen POS system										
MODULE-V	ARCHITECTURAL MODELING	Classes: 09								
Component, Component diagrams, Deployment, Deployment diagrams; Case Study: The Unified Library Application.										
Text Books:										
 Grady Booch, James Rumbaugh, Ivar Jacobson, "The Unified Modeling Language User Guide", Pearson Education, 2nd Edition, 2004. Craig Larman, "Applying UML and Patterns: An Introduction to Object Oriented Analysis and Design and Iterative Development", Pearson Education, 3rd Edition, 2005. 										
Reference Books:										
 MeilirPage-Jones: Fundamentals of Object Oriented Design in UML, Pearson Education, 1st Edition, 2006. Hans-Erik Eriksson, Magnus Penker, Brian Lyons, David Fado, "UML 2 Toolkit", WILEY-Dreamtech India Pvt. Ltd., Pearson Education, 3rd Edition, 2005. 										
Web References:										
2. https://www.uto	torialspoint.com/uml/uml_overview.html dallas.edu/~chung/OOAD/M03_1_StructuralDiagrams.ppt e.live.com/download?cid=99CBBF765926367									
1. https://www.uto	dallas.edu/UML2.0/Rumbaugh dallas.edu/~chung/SP/applying-uml-and-patterns.pdf									