



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned				
		L	T	P	L	T	P	Total	
CPCL503	Structured and Object Oriented Analysis and Design Lab	--	--	2	--	--	1	1	
		Examination Scheme							Total
		ISE		ESE		Total			
				Practical	Oral				
		40	-	20	60				

Pre-requisite Course Codes	CPC503(Structured and Object Oriented Analysis and Design)		
At end of successful completion of this course, student will be able to			
Course Outcomes	CO1	To write, gather and validate requirement of a system.	
	CO2	To create a model of requirements using structured approach.	
	CO3	To create a model of requirements using object oriented approach.	
	CO4	To demonstrate a system prototype derived from requirement modeling.	

Exp. No.	Experiment Details	Ref.	Marks
1	To document System Requirement Specification	1,2,3	5
2	To draw DFD for a given scenario	1,2,3	5
3	To draw Class Diagram for a given scenario	1,2,3	5
4	To draw use case diagram along with specification for a given scenario	1,2,3	5
5	To draw communication diagram for a given scenario	1,2,3	5
6	To draw state machine and workflow diagram for a given scenario	1,2,3	5
7	To draw component and Deployment diagram for a given scenario	1,2,3	5
8	Mini-project	1-11	5
Total Marks			40

References:

- [1] Satzinger, Jackson and Burd, "System Analysis & Design" Cengage Learning, 2007
- [2] Jeffery I. Whitten, Lonnie D Bentley, "System Analysis and Design Methods", McGraw Hill, 7th edition.



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- [3] Alan Dennis, Barbara H. Wixom, Roberta M. Roth, "System Analysis and Design", Wiley India 4th edition
- [4] Kendall & Kendall, "Systems Analysis and Design" PHI Publication, 7th Edition.
- [5] James a. Senn, "Analysis and Design of Information Systems", McGrawHill, 2nd Edition.
- [6] Michael Blaha, Jame Rumbaugh, "Object-Oriented Modeling and Design with UML" Pearson Education Publication, 2nd Edition.
- [7] Grady Booch, James Rumbaugh, Ivar Jacobson, "The Unified Modeling Language - User Guide" Pearson Education Publication.
- [8] Jeffrey A. Hoffer, Joey F. George, Joseph S. Valacich, Prabin K. Panigrahi, "Modern Systems Analysis and Design", Pearson Education Publication, 4th Edition.
- [9] UML Distilled by Martin Fowler, Pearson Edition, 3rd Edition.
- [10] Ali Bahrami, "Object Oriented Systems Development Using the Modified Modeling Language", Tata McGraw Hill Publication.
- [11] Applying UML and Patterns by Craig Larman, Pearson Education, 2nd Edition