CASE TOOLS LABORATORY

V Semester: CSE | IT

Course Code	Category	Hours / Week			Credits	Maximum Marks		
		L	T	P	C	CIA	SEE	Total
ACSB12	Core	-	-	2	1	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	Practical Classes: 24				Total Classes: 24		

I. COURSE OVERVIEW:

This Laboratory course introduces the Unified Modeling language for visualizing, specifying, constructing and documenting in preparing blueprint of a software intensive system. This lab covers Static and Dynamic aspects of the System with illustrations of Class, Object, are used to createlow level and high level design documents of the software system.

II. OBJECTIVES:

The course should enable the students to:

I The Usage of CASE tools in modeling and designing of real time applications

II The implementation of Architectural views for different case studies.

III Applying common modeling techniques of forward and revers engineering.

III. COURSE OUTCOMES:

After successful completion of the course, students should be able to:

CO 1	**Demonstrate** Interlocking views of software intensive system forprojection into the structure of system. .	Apply
CO 2	**Analyze** use case view for designing overall behavior of differentsystems.	Analyze
CO 3	**Apply** Design view for implementing vocabulary and functionality of various systems.	Apply
CO 4	**Apply** process view for improving performance and scalability in designing systems.	Apply
CO 5	**Apply** implementation view in system assembly and configurationmanagement.	Apply
CO 6	**Apply** deployment view for designing system topology of varioussystems.	Apply

LIST OF EXPERIMENTS

Week-1	**INTRODUCTION TO UML**
Study Of UML	
Week-2	**ON LINE PURCHASE SYSTEM**
Create a UML model for On line Purchase System	
Week-3	**LIBRARY MANAGEMENT SYSTEM**
Create a UML model for Library Management System	
Week-4	**E-TICKETING**
Create a UML model for E-Ticketing	

Week-5	**QUIZ SYSTEM**
Create a UML model for Quiz System	
Week-6	**STUDENT MARK ANALYZING SYSTEM**
Create a UML model for Student Mark Analyzing System	
Week-7	**E-MAIL CLIENT SYSTEM**
Create a UML model for E-Mail Client System	
Week-8	**TELEPHONE PHONE DIALING**
Create a UML model for Telephone Phone Dialing	
Week-9	**POINT OF SALE**
Create a UML model for Point of sale	
Week-10	**WORKING COMPANY**
Create a UML model for a Working Company	
Week-11	**ATM TRANSACTIONS**
Create a system to design Bank ATM Transactions and generate code by using MS-Access as back end and VB as the front end.	
Week-12	**STUDENT MARK ANALYSIS**
Create a system to design Student mark analysis system and generate code by using MS-Access as back end and VB as the front end.	

Reference Books:

1. Grady Booch, James Rumbaugh, Ivar Jacobson, "The Unified Modeling Language User Guide", Pearson Education, 2nd Edition, 2004.
2. Craig Larman, "Applying UML and Patterns: An Introduction to Object Oriented Analysis and Design and Iterative Development", Pearson Education, 3rd Edition, 2005.

Web References:

1. www.uml.org
2. www.holub.com/goodies/uml/
3. www.uml-diagrams.org/
4. https://www.utdallas.edu/.../UML.../Rumbaugh--UML_2.0_Reference_C...

SOFTWARE AND HARDWARE REQUIREMENTS FOR A BATCH OF 36 STUDENTS:

HARDWARE: Desktop Computer Systems: 36 (nos)

SOFTWARE: Application Software: Rational Rose