OBJECT ORIENTED MODELLING LABORATORY

IV Semester: IT								
Course Code	Category	Hours / Week			Credits	Maximum Marks		
AITC08	Core	L	T	P	C	CIA	SEE	Total
		0	0	3	1.5	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	Practical Classes: 36				Total Classes: 36		

Prerequisites: No Prerequisites

I. Course Overview:

This course is intended to provide an in depth understanding of object oriented approaches to software development, in particular to the analysis and design phases of the software life cycle. Instead of viewing the problem domain as a sequence or set of procedures, the emphasis in OOAD is on entities that interact with one another while making a design closer to the problem domain.

II. Course Objectives:

- I. The basic and advanced building blocks of Unified Modeling Language for analysis and design of software systems.
- II. The Object-oriented approach for analysis and design of System/Subsystem/Functional units based on the given specifications through UML Diagrams.
- III. The implementation of design document of real time software applications using advanced CASE tools.

III. COURSE SYLLABUS

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: INTRODUCTION TO UML

Create a UML model for Point of sale

Week-10: POINT OF SALE

Create a UML model for a Working Company

Week-11: WORKING COMPANY

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: ATM TRANSACTIONS

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, 2ndEdition, 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