



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**KAKINADA – 533 003, Andhra Pradesh, India**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

|                                            |  |          |          |          |          |
|--------------------------------------------|--|----------|----------|----------|----------|
| <b>II Year –I I Semester</b>               |  | <b>L</b> | <b>T</b> | <b>P</b> | <b>C</b> |
|                                            |  | <b>0</b> | <b>1</b> | <b>2</b> | <b>2</b> |
| <b>UNIFIED MODELING LANGUAGE (UML) LAB</b> |  |          |          |          |          |

**Course Objectives:**

- To know the practical issues of the different object oriented analysis and design concepts
- Inculcate the art of object oriented software analysis and design
- Apply forward and reverse engineering of a software system
- Carry out the analysis and design of a system in an object oriented way

**Course Outcomes:**

At the end of the course, student will be able to

- Know the syntax of different UML diagrams
- Create use case documents that capture requirements for a software system
- Create class diagrams that model both the domain model and design model of a software system
- Create interaction diagrams that model the dynamic aspects of a software system
- Write code that builds a software system
- Develop simple applications

**Note:** For performing the experiments consider any case study (ATM/ Banking/ Library/Hospital management systems)

**Experiment 1:**

Familiarization with Rational Rose or Umbrella environment

**Experiment 2:**

- a) Identify and analyze events
- b) Identify Use cases
- c) Develop event table

**Experiment 3:**

- a) Identify & analyze domain classes
- b) Represent use cases and a domain class diagram using Rational Rose
- c) Develop CRUD matrix to represent relationships between use cases and problem domain classes

**Experiment 4:**

- a) Develop Use case diagrams
- b) Develop elaborate Use case descriptions & scenarios
- c) Develop prototypes (without functionality)

**Experiment 5:**

- a) Develop system sequence diagrams and high-level sequence diagrams for each use case
- b) Identify MVC classes / objects for each use case
- c) Develop Detailed Sequence Diagrams / Communication diagrams for each use case showing interactions among all the three-layer objects

# Uml Lab Manual For Information Technology

**Content Fact Digital,Ed Sawicki**



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Cti Higher Edn Cengage Learning Australia,Thomson Course Technology,2001-12      C++ Programming Judy Scholl,2005      Behavioral Specifications of Businesses and Systems Haim Kilov,Bernhard Rumpe,Ian Simmonds,2013-03-09 Behavioral Specifications of Businesses and Systems deals with the reading writing and understanding of specifications The papers presented in this book describe useful and sometimes elegant concepts good practices in programming and in specifications and solid underlying theory that is of interest and importance to those who deal with increased complexity of business and systems Most concepts have been successfully used in actual industrial projects while others are from the forefront of research Authors include practitioners business thinkers academics and applied mathematicians These seemingly different papers address different aspects of a single problem taming complexity Behavioral Specifications of Businesses and Systems emphasizes simplicity and elegance in specifications without concentrating on particular methodologies languages or tools It shows how to handle complexity and specifically how to succeed in understanding and specifying businesses and systems based upon precise and abstract concepts It promotes reuse of such concepts and of constructs based on them without taking reuse for granted Behavioral Specifications of Businesses and Systems is the second volume of papers based on a series of workshops held alongside ACM s annual conference on Object Oriented Programming Systems Languages and Applications OOPSLA and European Conference on Object Oriented Programming ECOOP The first volume Object Oriented Behavioral Specifications edited by Haim Kilov and William Harvey was published by Kluwer Academic Publishers in 1996

**Enterprise Information Systems for Business Integration in SMEs: Technological, Organizational, and Social Dimensions** Cruz-Cunha, Maria Manuela,2009-09-30 Discusses the main issues challenges opportunities and trends related to the impact of IT on every part of organizational and inter organizational environments      **Learning Management System Technologies and Software Solutions for Online Teaching: Tools and Applications** Kats, Yefim,2010-05-31 This book gives a general coverage of learning management systems followed by a comparative analysis of the particular LMS products review of technologies supporting different aspect of educational process and the best practices and methodologies for LMS supported course delivery Provided by publisher      **Object Modeling with the OCL** Tony Clark,Jos Warmer,2003-07-31 As part of the UML standard OCL has been adopted by both professionals in industry and by academic researchers and is one of the most widely used languages for expressing object oriented system properties This book contains key contributions to the development of OCL Most papers are developments of work reported at different conferences and workshops This unique compilation addresses many important issues faced by advanced professionals and researchers in object modeling like e g real time constraints type checking and constraint modeling      **Lab World** ,1973 **Computerworld** ,2004-05-10 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly

publication focused conference series and custom research form the hub of the world s largest global IT media network

*InfoWorld* ,2000-12-25 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects      **Computerworld** ,2005-02-07 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network      **Network World** ,2000-12-25 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce      *Lab Manual for Linux+ Guide to Linux Certification* Content Fact Digital,Ed Sawicki,2003 Provides students with the hands on instruction they ll need as Linux administrators and help them prepare for CompTIA s Linux Certification Exam      **Technology and Health Services** Institute of Electrical and Electronics Engineers,1969      Computerworld ,2001-01-01 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network      *Subject Guide to Books in Print* ,2001      Computer Supported Design in Architecture Karen M. Kensek,Douglas Noble,Association for Computer-Aided Design in Architecture,1992      **American Book Publishing Record** ,2003      ACADIA ... Proceedings Association for Computer-Aided Design in Architecture. Conference,1992      **Books in Print Supplement** ,2002      U.S. Government Research & Development Reports ,1967

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