



STANLEY
COLLEGE OF ENGINEERING & TECHNOLOGY FOR WOMEN
(Approved by AICTE , New Delhi | Affiliated to Osmania University ,Hyderabad)
Address : Chapel Road, Abids ,Hyderabad

CS 354

OBJECT ORIENTED SYSTEM DEVELOPMENT

UNIT-I

UML Introduction : Necessity of a Model, Introducing the UML, Hello World.

Basic Structural Modeling: Classes, Relationships, Common Mechanisms, Diagrams, Class Diagrams.

Advanced Structural Modeling: Advanced Classes, Advanced Relationships, Interfaces, Types and Roles, Packages, Instances, Object Diagrams, Components.

UNIT-II

Basic Behavioral Modeling: Interactions, Use Cases, Use Case Diagrams, Interaction diagrams, Activity diagrams.

Advanced Behavioral Modeling: Events and Signals, State Machines, Processes and Threads, Time and space, State Chart Diagrams.

UNIT-III

Architectural Modeling: Artifacts, Deployment Collaborations, Patterns and Frame-works, Artifact diagrams, Deployment diagrams, Systems and models.

UNIT-IV

Unified Software Development Process: The Unified Process, The Four Ps, A Use-Case-Driven Process, An Architecture-Centric Processes, An Iterative and Incremental Process.

UNIT-V

Core Workflows: Requirements Capture, Capturing Requirements as Use Case, Analysis, Design, Implementation, Test.

Suggested Reading:

1. 1.GradyBooch, James Rumbaugh, Ivor Jacobson, "*The Unified Modeling Language-User Guide*" (Covering UML 2.0), 2nd Edition, Pearson Education, India,2007.
1. 2.Ivor Jacobson, Grady Booch, James Rumbaugh: "*The Unified Software Development, Process*" Pearson Education, India, 2008.

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