

ELECTIVE COURSE –I – UNIFIED MODELLING LANGUAGE

Unit I

Principles of modeling – Object oriented modeling – Introduction to UML. Basic structural modeling: Classes – Relationships – Common mechanisms – Diagrams – Class diagrams.

Unit II

Advanced structural modeling : Advanced Classes – Advanced Relationships – Interfaces, Types and Roles – Packages – Instances – Object diagrams.

Unit III

Basic behavioral modeling : Interactions – Use Cases – Use Case Diagrams – Interaction Diagrams – Activity Diagrams.

Unit IV

Advanced Behavioral Modeling : Events and Signals – state Machines – Process and Threads – Time and Space – State chart Diagrams.

Unit V

Architectural Modeling : Components – Deployment – Collaborations- Patterns and Frameworks – Component Diagrams – Deployment Diagrams – Systems and Models.

Text Book :

The Unified Modeling Language User Guide – Grady Booch, James Rumbaugh and Ivar Jacobson – Addison Wesley – Fourth Indian Reprint 2000.

Reference Book:

Instant UML – Pierre – Alain Muller – Wrox Press Ltd., Shroff Publishers and Distributors Pvt. Ltd.,