

H.N.G. University, Patan
M.C.A(5 Years Integrated Programme) SEMESTER - VII
704 : Object Oriented Analysis & Design with UML

Unit : 1

[25%]

The object Oriented Paradigm, Management of Object Oriented Software Projects, Object Oriented Analysis: Domain Analysis, Generic components of the Analysis Model, The A Process, The Object-Relationship Model, The Object-Behavior Model, Object Oriented Design: Design for Object Oriented Systems, The System Design Process, The Object Design Process, Design Patterns

Unit : 2

[25%]

Introduction to Web Engineering, Web Engineering team, Analysis for Web Application: Requirements Analysis for Web Apps, The Analysis Model for Web Apps, The content Model, The Interaction Model, The Functional Model, The Configuration Model, Relationship-Navigation Analysis, Design for We Apps: Design Issues for Web Engineering, The Web E-Design Pyramid, Web App Interface Design, Aesthetic Design, Content Design, Architecture Design, Navigation Design, Component level Design, Hypermedia Design Patterns, Object-Oriented Hypermedia Design Method

Unit : 3

[25%]

Introduction to UML, Classes, Advanced Classes, Relationships, Advanced Relationships, Interfaces, types, Roles, Packages, Class Diagram, Use-case Diagram

Unit : 4

[25%]

Interaction Diagram: Sequence Diagram, Collaboration Diagram, Forward and Reverse Engineering, Activity Diagram, State Chart Diagram, Patterns and Frameworks, Component Diagram, Deployment Diagram

Text Books:

1. Software Engineering By Roger S. Pressman Fifth Edition McGraw Hill Publications
2. Software Engineering By Roger S. Pressman Sixth Edition McGraw Hill Publications
3. The Unified Modeling Language User Guide By Booch, Rumbaugh, Jacobson Low Price Edition Publication

Reference Books:

1. Use Case Driven Object Modeling with UML, Doug Rosenberg
2. Object Oriented Software Engineering, Ivan Jacobson
3. Object Technology Application Development, Daniel Tkach and Richard Puttick