CORE COURSE II - OBJECT ORIENTED ANALYSIS AND DESIGN

Unit I

OBJECT BASIS: Object Oriented Philosophy - Object - Object State, behaviors and methods. Encapsulation and information hiding Class Relationship among classes polymorphism, aggregation, object containment, meta classes.

Unit II

OBJECT ORIENTED METHODOLOGIES: Rumbaugh object Model, Booch methodology Jacobson methodology, patterns, frame works and unified approach.

Unit III

OBJECT ORIENTED ANALYSIS: Business object analysis use case driven approach - use case model. Object analysis - CRC cards - Noun phrase approach Identifying object relationships and methods.

Unit IV

OBJECT ORIENTED DESIGN: On design process - Design axioms - design patterns - designing classes. Case study.

Unit V

UML AND PROGRAMMING: Introduction to unified modeling language - UML diagrams - class diagrams and use case diagrams - State and dynamic models. Case study to inventory, sales and banking.

Text Book

1. Ali Bahrami, "Object Oriented Systems Development" Irwin-McGraw Hill, New Delhi, International editions, 1999.

References

- 1. Martin Fowler, Kendall Scott, "UML Distilled-Applying the standard Object Modeling Language", Addition Wesley 1977.
- 2. Grady Booch, "Object Oriented Analysis and Design with applications", II edition, Addition Wesley, 1994.