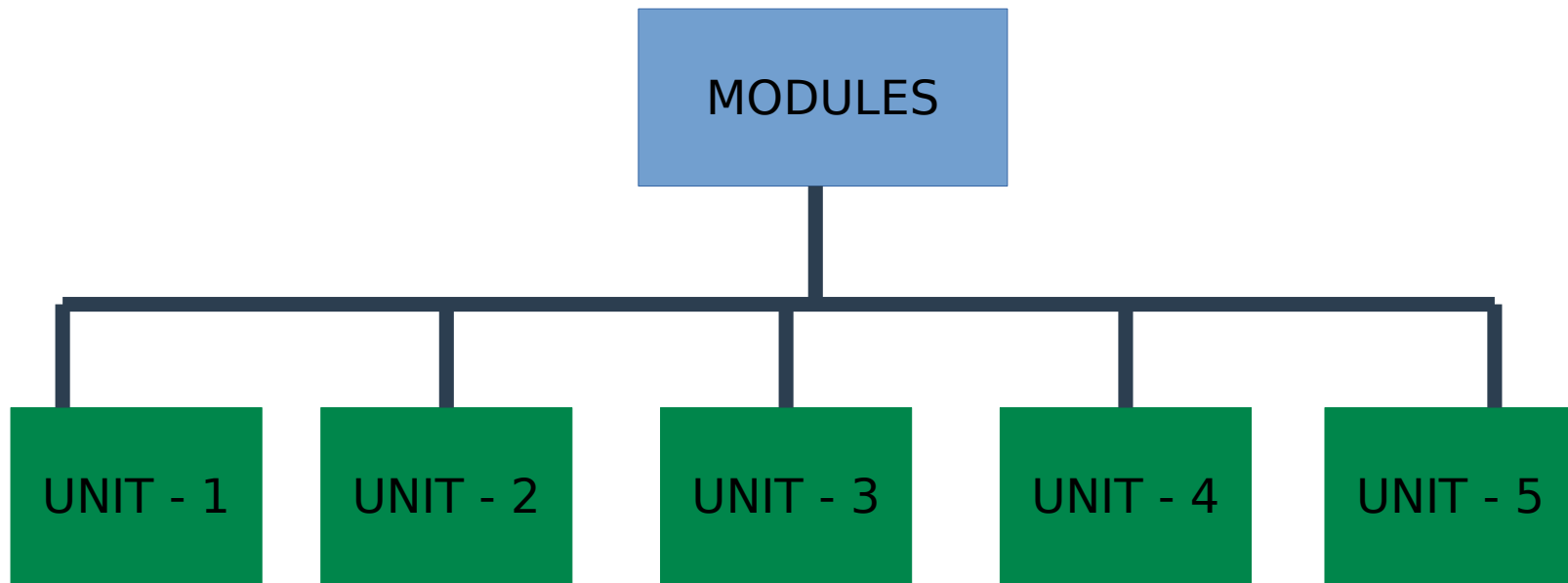# 0301403

STRUCTURED & OBJECT ORIENTED ANALYSIS & DESIGN

INDEX

- **Introduction**
- **Books / E-books**
- **CEC / Assignment**

COURSE OBJECTIVE

- To understand the concepts, role and importance of the Structured Approach and Object-Oriented approach for System Development in real life applications.

- To recognize the different phases of System Development Life Cycle for real-life applications.

- To identify the key points to take into account while using Structured and Object-Oriented approach for System Development.

- To comprehend the type of Structured and Object-Oriented model to apply according to the scenery of applications.

- To be aware of the real stages and phases for System Development.

MODULES

UNIT - 1

- **The System Analyst and Information Systems**
  - Introduction
  - The System Analyst
  - The Software Development Life Cycle & Deliverables
  - Project Identification & Initiation
  - Feasibility Analysis
  - Introduction to Requirements Determination
  - Analysis Phase
  - Requirements Determination
  - Reqirement elicitation techniques

UNIT - 2

- **Process Modelling**
    - Introduction
    - Data Flow Diagrams
    - Creating Data Flow Diagrams
    - Data Dictionary

UNIT - 3

- **Object Oriented Analysis & Design**
  - Introduction
  - Object Oriented Modelling
  - Object Oriented Approach
  - The Constituents of OOAD
  - Pillars of OOAD
  - Unified Modelling Language

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UNIT - 4

- **Use Case Diagram, Class Diagram, Object Diagram**
  - Introduction
  - UML Diagram
  - Class Diagram
  - Object Diagram

UNIT - 5

- **Sequence Diagram, Collaboration Diagram, Activity Diagram, State Chart Diagram**
  - Introduction
  - Sequence Diagram
  - Collaboration Diagram
  - Activity Diagram
  - State Chart Diagram

Evaluation

CEC / ASSIGNMENTS / PROJECTS	30%
INTERNAL EXAM	20%
EXTERNAL EXAM	50%

TEXT BOOKS

- **MAGNIFYING OBJECT-ORIENTED ANALYSIS & DESIGN**
  - PUBLISHER : PHI
  - AUTHOR : ARPITA GOPAL & NETRA PATIL
- **SYSTEM ANALYSIS & DESIGN**
  - PUBLISHER : WILEY
  - AUTHOR : ALAN DENNIS, WIXOM AND ROTH

E - BOOKS

- **System, Analysis, Design and Development (Concepts, Principals and Practices)**
  - Publisher : WILEY
  - Author : Charles S. Wasson
- **Object-Oriented Analysis and Design with Applications**
  - Publisher : Series Editors
  - Author : Grady Booch, Ivar Jacobson, and James Rumbaugh

ASSIGNMENTS / CEC / PROJECTS