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| |  |  |  | | --- | --- | --- | | 13CS3104 | - | OBJECT ORIENTED ANALYSIS AND DESIGN | | | | | | | | |
|  |  | |  | | | | |
| Hours / Week | : | 4 | |  | Sessional Marks | : | 40 |
| Credits | : | 4 | |  | End Examination Marks | : | 60 |

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| **UNIT - I** |
| **Introduction the UML**: The importance of modeling, Principles of modeling, Object oriented modeling, A conceptual model of the UML, Architecture, Software Development Life Cycle. |
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| **UNIT – II** |
| **Basic Structural Modeling**: Classes, Relationships, Common Mechanisms and Diagrams.  Advanced Structural Modeling: Advanced Classes, Advanced Relationships, Interfaces, Types and Roles, Packages. |
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| **UNIT – III** |
| **Class & Object Diagrams**: Terms and Concepts, Common Modeling techniques for Class & Object Diagrams. |
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| **UNIT – IV** |
| **Basic Behavioral Modeling**: Interactions, Interaction diagrams, Use cases, Use case diagrams, Activity diagrams. |
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| **UNIT - V** |
| **Advanced Behavioral Modeling**: Events and Signals, State machines, Process and Threads, Time and Space, State chart diagrams.  **Architectural Modeling**: Components, Deployment, Component diagrams and Deployment diagrams. |
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| TEXT BOOKS |
| 1. Grady Booch, James Rumbaugh, Ivar Jacobson : The Unified Modelling Language User Guide, Pearson Education. |
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| REFERENCE BOOKS |
| 1. Meilir Page-Jones: Fundamentals of Object Oriented Design in UML, Pearson Education. 2. Pascal Roques: Modeling Software Systems Using UML2, WILEY- Dreamtech India Pvt.Ltd. 3. Atul Kahate: Object Oriented Analysis & Design, The McGraw-Hil Companies. |