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| **17CS32P2 – OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY** |

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| **Course Category:** | Program Core | **Credits:** | 2 |
| **Course Type:** | Laboratory | **Lecture – Tutorial – Practical:** | 0-0-3 |
| **Prerequisite:** | Knowledge in any object oriented programming language is required. | **Sessional Evaluation:**  **Univ. Exam Evaluation:**  **Total Marks:** | 40  60  100 |
| **Objectives** | To draw various UML diagrams and supporting relationships to explore the design and behavior of different applications | | |

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| **Course Outcomes** | Upon the successful completion of the course, the students will be able to: | |
| CO1 | Develop suitable UML diagrams for various applications or domains as and when required. |
| **Course Content** | 1. Student Marks Analysis System (Draw the Class diagram). 2. Library Management System (draw the Collaboration diagram). 3. Medical Expert System (Draw the Activity diagram). 4. Course Registration System (Draw the Class and Activity diagram). 5. Order Processing System (Draw the Sequence diagram). 6. Online Railway Ticket Reservation System (Draw the Class and Sequence diagram). | |
| **Text Books and References** | **TEXT BOOK(S):**   1. Grady Booch, James Rumbaugh, IvarJacobson: The Unified Modeling Language User Guide, Pearson Education.   **REFERENCE BOOKS:**   1. Meilir Page-Jones: Fundamentals of Object Oriented Design in UML, Pearson Education. 2. AtulKahate: Object Oriented Analysis & Design, The McGraw-Hill Companies. | |
| **E-Resources** | 1. <https://nptel.ac.in/courses> 2. <https://freevideolectures.com/university/iitm> | |