**Students are required to**

1. Identify the project type they are working on and appropriately opt for the list of system design diagrams
2. Use standard UML diagram notation for their project design
3. Have multiple discussions with their guides before finalizing the design
4. Submit the following documents hard copy to the guides:
      a. Corrected Synopsis
      b. Introduction
            i.    Problem Statement
            ii.   Objectives
            iii.  Scope
      c. Literature Survey
      d. System Analysis
            i.    Existing System
            ii.   Proposed System
      e. Technology Stack with Justification
      f. System Design
5. Draft of the Idea paper
6. Identify the Journal/Conference for publication of the paper- list at least 5

*Note: The document should be soft binded using OHP sheets and Brown Tape*

### I.    Design Diagrams List for Cloud Projects
1. Use Case Diagram
2. System Architecture Diagram (Cloud Architecture)
3. Deployment Diagram
4.  Data Flow Diagram (Level 1)
5. Component Diagram
6. ER Diagram (If database used)
7. Network Architecture Diagram

### II.    Design Diagrams List for DevOps Projects
1. CI/CD Pipeline Diagram (Mandatory)
2. System Architecture Diagram
3. Deployment Diagram
4. Container Architecture Diagram
5. Workflow Diagram
6. Infrastructure Diagram
7. Sequence Diagram (Build → Test → Deploy)

### III.    Design Diagrams List for Network Projects
1. Network Topology Diagram
2. System Architecture Diagram

3. Protocol Stack Diagram
4. Data Flow Diagram
5. Deployment Diagram
6. Sequence Diagram (Packet Flow)
7. Component Diagram
8. Firewall Architecture Diagram
9. VPN Architecture Diagram

IV. **Design Diagrams List for IoT Projects**
1. IoT System Architecture Diagram
2. Block Diagram (Hardware Architecture)
3. Data Flow Diagram (DFD Level 1)
4. Use Case Diagram
5. Deployment Diagram
6. Network Topology Diagram
7. Sequence Diagram
8. Component Diagram
9. Flowchart (Sensor Logic)
10. ER Diagram (Cloud Database)

V. **Design Diagrams List for Automation Projects**
1. Process Flow Diagram
2. Use Case Diagram
3. Activity Diagram
4. System Architecture Diagram
5. Sequence Diagram
6. Workflow Diagram

VI. **Design Diagrams List for Agile Projects**
1. Sprint Workflow Diagram
2. Use Case Diagram
3. System Architecture Diagram
4. User Story Mapping Diagram
5. Activity Diagram
6. Release Planning Diagram

VII. **Design Diagrams List for AI Projects**
1. AI System Architecture Diagram
2. Data Flow Diagram
3. Model Training Pipeline Diagram
4. Use Case Diagram
5. Deployment Diagram
6. Sequence Diagram
7. ER Diagram (If data stored)

# Ramaiah Institute of Technology

(Autonomous Institution, Affiliated to VTU, MSR Nagar, Bengaluru-560054)

## Department of Master of Computer Applications

# PROJECT PHASE-1

| | |
|---|---|
| **USN** | |
| **Student Name** | |
| **Guide Name** | |
| **Project Title** | |
| **Term** | 08-10-2025 to 31-01-2026 |

# Weekly Reports

| Date | Description Work Done | Signature of the Guide |
|------|----------------------|------------------------|
| 14-10-2025 | | |
| 28-10-2025 | | |
| 04-11-2025 | | |
| 11-11-2025 | | |
| 18-11-2025 | | |
| 25-11-2025 | | |
| 02-12-2025 | | |

| | | |
|---|---|---|
| 09-12-2025 | | |
| 16-12-2025 | | |
| 23-12-2025 | | |
| 30-12-2025 | | |
| 06-01-2026 | | |
| 13-01-2026 | | |
| 20-01-2026 | | |

Signature of
Student with Date

Signature of
Guide with Date

Signature of
HoD, MCA