BHARATIYA VIDYA BHAVAN'S
SARDAR PATEL INSTITUTE OF TECHNOLOGY
MUNSHI NAGAR ,ANDHERI(W), MUMBAI 400058

Subject: CS302/IT302: Software Engineering
Class: T.E COMP/IT, Sem V

## ISE-1 & MSE Syllabus and Schedule for Software Engineering (TE - COMP /IT 2022-23)

**ISE-1** for Software Engineering is scheduled on **07-October-2022 4:00PM to 4.40PM**. The ISE will be conducted via moodle platform in college.

**ISE-1** details are shared below:

**Weightage:** 20%

**Modality:** MCQ Quiz -30 questions

**Target Cos for ISE :**

CS302.1/IT302.1: Analyze software requirements.

CS302.2/IT302.2: Apply UML models for a project.

Tentative Syllabus for **ISE:**

| Sr.no | Module No. | Unit No. | Topic |
|---|---|---|---|
| 1 | **2** | **Requirements Management and Project Planning** | |
| | | **2.1** | Requirements Development Methodology, Specifying Requirements, Eliciting Accurate Requirements, Documenting Business Requirements, SRS, Defining User Requirements, Validating Requirements, Achieving Requirements Traceability, Managing Changing Requirements |
| 2 | **3** | **Software Analysis** | |
| | | **3.1** | Difference between Structured and Object-Oriented analysis, Structured Analysis, Data Flow Diagrams |
| | | **3.2** | Object Oriented Analysis, Uses Case, Class diagram, Interaction diagrams, Activity diagram, State Chart diagram |

Tentative Syllabus for **MSE :**

| Sr.no | Module No. | Unit No. | Topic |
|---|---|---|---|
| 1 | **2** | **Requirements Management and Project Planning** | |
| | | **2.1** | Requirements Development Methodology, Specifying Requirements, Eliciting Accurate Requirements, Documenting Business Requirements, SRS, Defining User Requirements, Validating Requirements, Achieving Requirements Traceability, Managing Changing Requirements, Agile Requirements Engineering |
| | | **2.2** | Scheduling, Work Breakdown Structure, Gantt Chart, Pert Chart, Critical Path, Earned Value Analysis, Schedule and Cost slippage, Estimation, Decomposition techniques, Empirical estimation models, Software Risk Management**:** Risk Identification, Risk Projection, Risk Refinement, RMMM Plan |
| 2 | **3** | **Software Analysis** | |
| | | **3.1** | Difference between Structured and Object-Oriented analysis, Structured Analysis, Data Flow Diagrams |
| | | **3.2** | Object Oriented Analysis, Uses Case, Class diagram, Interaction diagrams, Activity diagram, State Chart diagram, Component and Deployment diagram |