Meeting Proceedings of Course Instructor and Course Coordinator (CICC)

Academic Year: **2023-24 (ODD Semester)** Date of Meeting: 19/09/2023

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|  | **Course Details:** | |
| Course Title: **Software Engineering and Testing** | | Course Code: **20IS535** |
| No. of Lecture Hrs./ Week: **03** | | Course Area**: Information Science and Engineering** |
| Total No. of Lecture Hrs.: **40** | | CIE Marks: **50** |
| Exam Hours: **03** | | SEE Marks: **100** |

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| **II)** | **Course Instructor:** | **Course Coordinator:** |
| 1. | Prof. Shilpa KS | Prof. Shilpa KS |

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| **III)** | **Course Outcomes (CO)** |

Upon successful completion of this course, students should be able to

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| **CO1** | **Explain** the concepts of software development with professional, ethical responsibility as a software engineer | Understand |
| **CO2** | **Illustrate** various phases of the software development lifecycle | Apply |
| **CO3** | **Derive** test cases and **classify** the problem into suitable testing techniques | Analyze |
| **CO4** | Demonstrate security attacks and countermeasures using open-source tools. | Additional |

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| **IV)** | **CO – PO and CO – PSO Relevance** |

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|  | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | **PSO2** | **PSO3** | **PSO4** |
| **CO1** | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| **CO2** |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| **CO3** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| **CO4** |  |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  | 2 |
| **Avg.** | **2** | **2** |  |  |  |  |  |  |  |  | **2** |  |  |  |  | **2** |

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| **V) Instructional Methods** | |
| **Module 1, 2, 3, 4, 5** | * Black board teaching (Chalk and talk) * Hands-on on testing the dummy websites * PPT and videos |

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| **VI)** | **Assessment:** |

1. **Assessment Weightages for Each CO (Both in CIE and SEE):**

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| **CO** | **Weightage (%)-CIE** | **Weightage (%)-SEE** |
| CO1 | 20 | 20 |
| CO2 | 40 | 40 |
| CO3 | 40 | 40 |

1. **CIE Assessment Pattern:**

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| --- | --- | --- | --- | --- |
| **Components** | | **Number** | **Weightage** | **Max. Marks** |
| (i) | Tests (A) | 3 | 60% | 30 |
| (ii) | Module Test/ Quiz (B) | 2 | 20% | 10 |
| (iii) | Activity Based Assessment [ABA] (C) | 1 | 20% | 10 |
|  | **Total Marks** | | | **50** |

1. **Test Details:**

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| **Tests** | | **Syllabus** | **Max. Marks** |
| (i) | Test-1 (A1) | Module 1& Module 2 | 30 |
| (ii) | Test-2 (A2) | Module 3& Module 4 | 30 |
| (iii) | Test-3 (A3) | Module 5 | 15 |
|  | **Total [Reduced to 30 Marks]** | | **75** |

**d) Module Test/ Quiz**

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| **Quiz/ Module Test** | | **Timeline** | **Syllabus** | **Max. Marks** |
| **(i)** | **Quiz-1/ Module test-1 (B1)** | Before Test-1 | **Module1/ Module 2** | **10** |
| **(ii)** | **Quiz-2/Module test-2 (B2)** | After Test-1 and Before Test-2 | **Module3/ Module 4** | **10** |
|  | | **Total [Reduce to 10 Marks]** | |  |

**iii) Details on the type of Questions asked in quiz:**

Questions at understand, Apply and Design will be asked.

**e) Activity Based Assessment Details:**

**i) Activity Description:**

a)Given the website students should adopt the maximum test cases to test the website.

b) Given the scenario students should adopt various methods to collect and analyze system requirement specifications of the system to be developed for the end user.

**ii) Implementation:**

Execute the above written test cases against the website and mark the pass/fail status of the test cases and document it.

**iii)Assessment Rubrics:**

Activity Based Assessment shall be evaluated for a total of 10 Marks .

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| **Documentation of SRS (5 Marks)** | |
| **Excellent**   * Documentation is aligned as per the given format. * Requirement specifications are clearly specified. | 5 |
| **Very Good**   * Documentation is aligned as per the given format. * Requirement specifications are satisfactory. | 4 |
| **Good**   * Documentation is well formatted. * Requirement specifications are not satisfactory. | 2 – 3 |
| **Average**   * Documentation is not well organized. * Requirement specifications is not satisfactory | 0 – 1 |

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| **Execution** | |
| **(5 Marks)** | |
| **Excellent**   * All the questions were answered with proper justification | 5 |
| **Very Good**   * All the questions were attempted for answering * Correct answers with proper justifications were provided for majority of the questions | 4 |
| **Good**   * Able to answer few questions with proper justification | 2 - 3 |
| **Average**   * Unable to answer the most of the questions * Unable to justify the presented concept * Technical knowledge is poor | 0 – 1 |

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| **VII)** | **Choice of Answering in CIE & SEE:** | |
| **Module 1,2&4** | | Since the three modules mentioned here cover the fundamental  concepts of SE and ST, Hence is decided **not to have choices** for the questions pertaining to these modules. |
| **Module 3 &**  **5** | | Will have choice as it is decided to have choice for any two modules. |

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| **VII)** | **Course Assessment Plan:** |

1. **CIE:**

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| **CO** | **Marks Distribution** | | | | | **Total Marks** | **Weightage (%)** |
| **Test-1 (30 marks)** | | **Test-2 (30 marks)** | | **Test-3 (15 marks)** |
| **Module-1** | **Module-2** | **Module-3** | **Module-4** | **Module-5** |
| **CO1** | 15 |  |  |  |  | 15 | 20 |
| **CO2** |  | 15 | 15 |  |  | 30 | 40 |
| **CO3** |  |  |  | 15 | 15 | 30 | 40 |
|  | **15** | **15** | **15** | **15** | **15** | **75** |  |

1. **SEE:**

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| **CO** | **Marks Distribution** | **Total** | **Weightage** |

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Module- 1** | **Module- 2** | **Module- 3** | **Module- 4** | **Module- 5** | **Marks** | **(%)** |
| CO1 | 20 |  |  |  |  | 20 | 20% |
| CO2 |  | 20 | 20 |  |  | 40 | 40% |
| CO3 |  |  |  | 20 | 20 | 40 | 40% |
|  | **20** | **20** | **20** | **20** | **20** | **100** |  |

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| **VIII** | **Targets for CO Attainment (Both in CIE & SEE):** |

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| **CO** | **Target (% of Marks)** | |
| **CIE** | **SEE** |
| CO1 | 50 | 50 |
| CO2 | 50 | 50 |
| CO3 | 50 | 50 |
| CO4 | ----- | ----- |

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| **Attainment criteria** | **Attainment level** |
| 50% of students scoring more than set target | 1 |
| 60% of students scoring more than set target | 2 |
| 70% of students scoring more than set target | 3 |