**MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Outcome Based Learning**

**Course Outcomes (Revision)**

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| Subject: | Software Engineering Lab | Max Marks External | 60 |
| Subject Code: | ETCS 353 | Max Marks Internal | 40 |
| Total Credit: |  | **Evaluation Scheme** | |
| Contact Hours: |  | Theory/ Lab | **Lab** |
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**Course Objectives:**

The Software Engineering Lab has been developed to impart state-of-the-art knowledge on Software Engineering practical aspects and UML in an interactive manner. This course also provide scope to students where they can solve small, real life problems and present case studies that can further demonstrate practical applications of different concepts.

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| **S.NO** | **Course Outcomes** | **BL** | **PO** | **PI Code** |
| **ETCS353.1** | Able to elicit, analyze and specify software requirements through a productive working relationship with various stakeholders of the project. | **1,2,4** | PO1,PO2,PO3,PO7,PO8,PO9,PO10,PO11,PO12 | 1.7.1,2.5. (1,2), 2.6(2,3),2.7.1,3.5. (1,2,3,5,6),7.3.1,8.3.1,9.4.(1,2),9.6.1,10.4.(1,2),11.4.(1,2), 11.5.1,12.4.1, 12.6.2 |
| **ETCS353.2** | Analyze and design function-oriented, user’s view, structural view diagram using SRS. | **4,6** | PO2,PO3,PO4,PO5,PO9,PO10 | 2.7.2,3.6.(1,2,3), 3.7.23.8(1,2,3),4.5.1, 4.6.(1,3,4),5.4.2,9.4.2,10.4.3,10.6.1 - - |
| **ETCS353.3** | Build behavioral, implementation and environmental view of system. | **6** | PO1,PO2,PO3,PO4,PO5,PO7,PO9,PO10 | 1.7.1,2.7.2,3.6.(1,2,3),3.7.2,3.8(1,2,3),4.5.1, 4.6.(1,3,4),5.4.2,7.3.1,7.4.1,9.4.2,9.5(2,3),10.4.3, 10.6.1 |
| **ETCS353.4** | Create the test cases in accordance with the testing plan to inspect and justify the implementation of the software specifications. | **3,6** | PO1,PO4,PO5,PO9,PO11 | 1.7.1,4.6.(1,2),5.4.2, 5.6.1,9.4.2, 9.5(2,3),11.6.2 |

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|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| CO1 | 1 | 3 | 3 | - | - | - | 1 | 1 | 2 | 1 | 2 | 2 |
| CO2 | - | 1 | 3 | 2 | 1 | - | - | - | 1 | 2 | - | - |
| CO3 | 1 | 1 | 3 | 2 | 1 | - | 2 | - | 2 | 2 | - | - |
| CO4 | 1 | - | - | 1 | 2 | - | - | - | 2 | - | 1 | - |
| Average | 0.75 | 1.25 | 2.25 | 1.25 | 1 | - | 0.75 | 0.25 | 1.75 | 1.25 | 0.75 | 0.5 |

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|  | PSO1 | PSO2 | PSO3 |
| CO1 | 2 | 2 | - |
| CO2 | 1 | 3 | - |
| CO3 | 1 | 2 | - |
| CO4 | 1 | 3 | - |
| Average | 1.25 | 2.5 | - |

Name of the Coordinator: Ms. Karuna Middha Name and Signature of the Subject teachers

Signature 1. Mr. Moolchand Sharma

Date of Revision of Course Outcomes 2.

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|  | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **CO1** | 1.7.1 | 2.5.(1,2), 2.6(2,3), 2.7.1 | 3.5.(1,2,3,5,6) | - | - | - | 7.3.1 | 8.3.1 | 9.4.(1,2), 9.6.1 | 10.4.(1,2) | 11.4.(1,2), 11.5.1 | 12.4.1, 12.6.2 |
| **CO2** | - | 2.7.2 | 3.6.(1,2,3), 3.7.23.8(1,2,3) | 4.5.1, 4.6.(1,3,4) | 5.4.2 | - | - | - | 9.4.2 | 10.4.3,10.6.1 | - | - |
| **CO3** | 1.7.1 | 2.7.2 | 3.6.(1,2,3), 3.7.2,3.8(1,2,3) | 4.5.1, 4.6.(1,3,4) | 5.4.2 | - | 7.3.1,7.4.1 | - | 9.4.2, 9.5(2,3) | 10.4.3, 10.6.1 | - | - |
| **CO4** | 1.7.1 | - | - | 4.6.(1,2) | 5.4.2, 5.6.1 | - | - | - | 9.4.2, 9.5(2,3) | - | 11.6.2 | - |

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|  | **PSO1** | **PSO2** | **PSO3** |
| **CO1** | 13.1(2,3),13.2(2,3) | 14.1.(2,3) | - |
| **CO2** | 13.2.2 | 14.1.3, 14.2.3 | - |
| **CO3** | 13.2.2 | 14.1.3 | - |
| **CO4** | 13.3.(1,2) | 14.1.3, 14.2.(1,2,3) | - |