**Meeting Proceedings of Course Instructor and Course Coordinator (CICC)**

Academic Year: **2023-24 (Odd Semester)** Date of Meeting: 25/10/2023

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|  | **Course Details:** | |
| Course Title : **DevOps Laboratory** | | Course Code: 20CS77 |
| No. of Practical Hrs./ Week : 01 | | Course Area:Core Laboratory |
| Total No. of Practical Hrs. : 02 | | CIE Marks : 50 |
| Exam Hours : 03 | | SEE Marks : 50 |

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| **II)** | **Course Instructor/s:** | **Course Coordinator:** |
| 1. | **Dr.Divya CD**  **Prof. Vidhyashree KP**  **Prof. Shilpa KS**  **Prof. Kavana Kumari L** | **Prof. AnilKumar BH** |

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

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

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| **CO1** | **Illustrate** the fundamentalof DevOps relevant to Software development and deployment | L2 |
| **CO2** | **Use** DevOps tools such as GitHub, Jenkins, Maven, Docker and Selenium to perform version control, build management, defect tracking in an application. | L3 |
| **CO3** | **Design and Develop** end to end integration for an application using DevOps tools. | L4 |

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

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| **CO** | **PO** | | | | | | | | | | | | | **PSO** | | | | |
| **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | | **PSO2** | **PSO3** | **PSO4** |
| *CO1* | 2 |  |  |  |  |  |  |  |  |  |  |  |  | |  |  | 2 |
| *CO2* | 2 |  |  |  | 3 |  |  |  |  |  |  |  |  | |  |  | 2 |
| *CO3* |  |  | 3 |  | 1 |  |  |  |  |  | 2 |  |  | |  |  | 2 |
| ***AVG*** | 2 |  | **3** |  | 2 |  |  |  |  |  | **2** |  |  | |  |  | **2** |

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| **V)** | **Course Delivery Plan** |
| Lab programs:   1. Briefing of concepts required to lab programs 2. Explain the solution structure 3. Partial implementation of solution from the faculty, complete implementation of solution by students   Open Ended Experiments:   1. Open Ended experiments must be carried out in a team of two (preferably). 2. The student has to create a continuous integration/continuous deployment pipeline by integrating following tools, 3. Maven project 4. GitHub 5. Jenkins. 6. Dockers 7. Selenium 8. Slack | |

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

1. **CIE Assessment Pattern:**

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| **Components** | | **Weightage** | **Max. Marks** |
| (i) | Lab Test (A) | 50% | 25 |
| (ii) | Continuous Evaluation(B) | 30% | 15 |
| (iii) | Open Ended Experiments (C) | 20% | 10 |
| **Total Marks** | | | **50** |

1. **Assessment criteria:**

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| **Assessment Criteria** | | | **Timeline** | **Weightage** | **Max. Marks** |
| **(I)** | | **Lab Test (A)** |  |  |  |
| (i) | Lab Test I | | During 6th week | 40% | 20 |
| (ii) | Viva Voce on all experiments | | During Lab Test I | 10% | 05 |
| (iii) | Lab Test II | | During 10th week | 40% |  |
| (iv) | Viva Voce on all experiments | | During Lab Test II | 10% |  |
|  | AVERAGE OF TEST I and TEST II | |  | 50% |  |
| **(II)** | | **Continuous Evaluation(B)** |  |  |  |
| (i) | | Regular lab work | Every Week | 20% | 10 |
| (ii) | | Lab Record | Every Week | 10% | 5 |
| **(III)** | | **Open Ended Experiments (C)** | During 11th Week | 20% | 10 |
| **Total Marks** | | | | | **50** |

**ii) Assessment Rubrics for Open Ended Experiments:**

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|  | **Excellent(8-10)** | **Good(5-7)** | **Average(0-4)** |
| **Implementation of solution** | The student has come up with optimal solution to given problem | Student has come up with a solution that can be further optimized | Student has come up with the solution which is not feasible |
| **Integration of solution** | The solution to the problem is integrated successfully and meets the requirements | The solution to the problem is integrated successfully and meets the partial requirements. | The solution to the problem has errors and does not meet the requirements. |

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| **VII** | **Targets for CO Attainment (CIE ):** |

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

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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 |

Signature of Course Coordinator Signature of PAAC Coordinator

Prof. Anilkumar BH Dr. Mohammed. Muddasir

Signature of Course Coordinator Signature of HOD

Prof. Shivani T J Dr. Ravi Kumar

Prof. Manjesh R