**NRIIT/7.5.1/RC 04**

**TEACHING PLAN**

**Department:** CSE(DS),AIML **Name of the Faculty**: N. Swarna Latha

**Designation**:AssistantProfessor **Name of the subject**: DevOps

**Academic Year:** 2023-2024 **Year / Semester:** III/ I

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| **SNO** | **TOPIC** | **NO. OF**  **CLASSES** | **NO. OF CUMULATIVE CLASSES** |
| 1. | **In-depth knowledge of DevOps methodology** |  |  |
| 2. | **Implementing Software Version Control** |  |  |
| 3. | **Containerizing Code on production using Docker** |  |  |
| 4. | **Creating CI/CD Pipelines using Jenkins** |  |  |
| 5. | **Configuration Management using Puppet and Ansible** |  |  |
| 6. | **Automating build and test using Selenium and Maven** |  |  |
| 7. | **Container Orchestration using Kubernetes** |  |  |
| 8. | **Performance Tuning and Monitoring using Nagios** |  |  |
| 9. | **Devops Tools : Jenkins,Docker. Phantom.,NagiosVagrant,Ansible,GitHub.** |  |  |

| **E-RESOURCES** |
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| https://www.guru99.com/ |

**Prepared: Faculty / Date Verified: HOD/Date**