

**Department of Engineering Technology**

**CET-222 Software Operations & Maintenance**

**Laboratory Index**

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| **S.NO** | **DATE** | **TITLE** |
| 01 | 26-02-2025 | Introduction to Version Control with Git and GitHub |
| 02 | 05-03-2025 | Advanced Git and GitHub Operations |
| 03 | 12-03-2025 | Configuring Continuous Integration (CI) Pipelines |
| 04 | 18-03-2025 | Automating Deployment Pipelines. |
| 05 | 09-04-2025 | Monitoring Software Performance with Prometheus |
| 06 | 16-04-2025 | Visualizing Metrics with Grafana |
| 07 | 30-04-2025 | Log Analysis and Debugging. |
| 08 | 07-05-2025 | Security and Compliance in Software Deployments (Open-Ended Lab Activity) |
| 09 | 14-05-2025 | Software Maintenance and Patching Strategies. |
| 10 | 21-05-2025 | Disaster Recovery Planning |
| 11 | 04-06-2025 | High Availability and Scalability Strategies |
| 12 | 04-06-2025 | Incident Response and Root Cause Analysis. |
| 13 | 11-06-2025 | Security and Compliance, encryption, audit logging. |
| 14 | 11-06-2025 | Final Project - Deploying a Real-World Software System (Open Ended Lab Activity 2) |

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Instructor Signature