

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
(ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)**

Academic Year: 2024-25

Class: TE

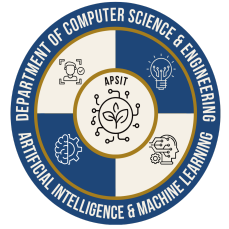
Semester: VI

Subject: Software Engineering & Project Management Lab (CSL 603)

Sr. No.	Lab topic Planned	Lo Mapped
01	To understand DevOps: Principles, Practices, and DevOps Engineer Role and Responsibilities.	LO1
02	To understand Version Control System / Source Code Management, install git and create a GitHub account.	LO2
03	To Perform various GIT operations on local and Remote repositories using GIT Cheat-Sheet.	LO2
04	To understand Continuous Integration, install and configure Jenkins with Maven/Ant/Gradle to setup a build Job.	LO3
05	To Build the pipeline of jobs using Maven / Gradle / Ant in Jenkins, create a pipeline script to Test and deploy an application over the tomcat server	LO3
06	To Setup and Run Selenium Tests in Jenkins Using Maven.	LO4
07	To understand Docker Architecture and Container Life Cycle, install Docker and execute docker commands to manage images and interact with containers	LO5
08	To learn Dockerfile instructions, build an image for a sample web application using Dockerfile.	LO5
09	To install and Configure Pull based Software Configuration Management and provisioning tools using Puppet	LO6
10	To learn Software Configuration Management and provisioning using Puppet Blocks (Manifest, Modules, Classes, Function)	LO6
11	Install and Run Terraform/Terraform Commands.	LO1



Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY
(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai)
(Religious Jain Minority)



Prof. Monali Korde
Lab in charge

Dr. Jaya Gupta
Head of Department