

Git, Jenkins, Understanding SonarQube and AIOps

Duration: 3 days

Hands-On Format: This hands-on class is approximately 80/20 lab to lecture ratio, combining engaging lecture, demos, group activities and discussions with comprehensive machine-based practical programming labs and project work.

Module 1 – Git & GitHub

Introduction to Version Control System History of Git Introduction to GitHub, SourceTree Introduction to VsCode Git Basics Working of Git States in Git Installing Git Configuration of Git **Basic Git Commands** Working with Remotes Tagging Git Branches & Head Cloning, exploring public repo Git fetch, Git pull and Git push Forking and contribution to Public Repo Git tags and rebasing GitHub Issues and labels Watch, star, Raw, Blame and History of file on GitHub Ignoring files in Git

Module 2 – Jenkins

Introduction to Continuous Integration Introduction to Jenkins Jenkins Installation Jenkins Management Build Java Program Run Jobs on Remote Machines Jenkins-Maven Setup Build a Jar using Maven Building with ant Junit Testing Graphical View of Tests Saving Artifacts in Jenkins Introduction to Jenkins Pipeline Jenkins Pipeline with Maven

Module 3 – SonarQube

Introduction to SonarQube Installation and Setup Sonar Integration with Apache Maven Basics Configuring Sonar with Jenkins Basics

Module 4 – Understanding AIOps

What is Alops? Why does it matter in modern IT Ops? Use cases of Alops AlOps Tools Overview