

DevOps Engineering Curriculum

Course Overview:

A hands-on course introducing DevOps culture, CI/CD pipelines, containerization, and infrastructure automation.

What You Will Learn:

- ❖ Master DevOps principles & culture.
- ❖ Version control with Git & GitHub.
- ❖ Build CI pipelines with Jenkins & GitHub Actions.
- ❖ Containerization using Docker.
- ❖ Orchestration with Kubernetes & Helm.
- ❖ Infrastructure automation using Terraform.
- ❖ Monitoring with Prometheus & Grafana.
- ❖ Secure DevOps practices (DevSecOps).

Requirements:

- ❖ Basic programming and Linux knowledge recommended

Syllabus:

Section	Topic
1	Introduction to DevOps
2	Version Control with Git
3	Continuous Integration
4	Containerization & Orchestration
5	Continuous Deployment
6	Monitoring & Security
7	Capstone Project