**DevOps Training**

**Required Linux Part Duration-3Month**

* Overview of Linux
* Linux Architecture
* Linux Distributions
* Basic Linux Commands
* File Permission Management

**Understanding of Physical and Virtual Servers**

* Overview of /Private Cloud Computing
* Overview of AWS/Azure/GCP
* Benefits of Cloud Computing
* Pricing and Usage Policy

**DevOps.**

* What is DevOps
* Why DevOps
* Benefits of DevOps
* DevOps Stages
* DevOps Lifecycle
* Various Automation in DevOps
* Overview of CICD

**GiT Tool**

* Introduction to Git
* Installation and setting up Git
* Important Git Commands
* Creating and Managing git Repositories
* Branching, Merging, Stashing, Rebasing, Reverting and Resetting
* Introduction to GitHub
* Managing Remote Repositories

**Jenkins Tool.**

* Overview of Jenkins
* Introduction to continuous integration and continuous deployment (CI/CD)
* Jenkins Master-Slave Architecture
* Create basic pipelines to run Jenkins jobs
* Manage the security and monitor the performance of pipelines.
* Jenkins Installation and Configuration
* Jenkins Plugins
* Jenkins Management
* Jenkins Freestyle and Pipeline Jobs
* Configuring Slave Node to Jenkins

**Docker Tool.**

* Docker Architecture
* Overview of Docker Hub
* Docker Installation
* Docker Commands
* Container Modes
* Port Binding
* Dockerfile
* Managing Docker Images
* Running and Managing Containers
* Docker Volume
* Docker Compose

**Maven Tool.**

* What is Maven
* Maven Architecture
* Maven Plugins
* Maven Archetypes
* Maven Commands
* Introduction to Java
* Setting up Maven Applications

**Kubernetes Tool.**

* Kubernetes ETCD
* Kube-API Server
* Controller Manager in Kubernetes
* Scheduler
* Kubelet & Kubeproxy
* Kubernetes pods
* Replica sets & Deployments
* Service Cluster IP
* Manual scheduling in Kubernetes
* Labels & Selectors
* Resource requirements & Limits
* Daemon sets
* Static pods
* Multiple Schedulers
* Monitor Cluster Components
* Managing Application logs

**Projects.**

**Interview Prepration.**

**Placement Assistance.**