**Syllabus for AWS/DEVOPS**

* AWS/DevOps Introduction ------
* Basics of Software Development Life Cycle (SDLC) ------
* Working Team Structure in IT & Roles and Responsibilities of Various teams.
* Basics of Agile and DevOps Methodology.
* Basics of Cloud Computing
* Roles and Responsibilities of Cloud(AWS)/Devops Engineer.
* Linux Operating System.
* Shell Scripting.
* AWS Introduction
  + Basics of AWS and Basic concepts
  + Services in AWS
* Elastic Compute Cloud (EC2)
  + Security Groups, Keypairs
* EBS Volumes and EBS Snapshots.
* Amazon Machine Images (AMI)
* Elastic Load Balancer (ELB)
* Autoscaling Group (ASG)
* Virtual Private Cloud (VPC)
  + VPC intro
  + Subnetting
  + Components of VPC such and IGW, NAT, SG, NACL, Route Tables and more
  + VPC Peering
* Elastic File System (EFS)
* Simple Storage Service (S3)
  + Buckets, Objects, Keys
  + Service endpoint
  + S3 architecture
  + Cross region replication
  + Versioning
  + Storage Classes
  + Static Website hosting
  + Introduction to AWS CLI and S3 CLI commands
* Identity and Access Management (IAM)
  + Users and groups
  + IAM roles
  + Policies and Types of Policies
* Simple Notification Service (SNS)
  + SNS topics, subscription endpoints and more.
* Monitoring of Resources using CloudWatch
  + Cloud watch components
  + Cloud Watch Events
  + Cloud Watch alarms
  + Cloud Watch Logs
* AWS Account Monitoring using Cloud Trail
* Relational Database Service (RDS)
  + Basics of Database
  + Types of RDS DB instances
  + Read replica.
  + Multi AZ deployment
  + DB and App connection

**DEVOPS TOOLS**

* GIT & GITHUB – Source Code Management Tool
  + Basics of Source Code Management
  + Git Architecture
  + Working on git and collaboration
  + GITHUB working.
  + Branches and tags
  + Pull requests and more commands.
* MAVEN – Build tool.
  + Local repository
  + Remote repository
  + Maven commands
  + Pom.xml and more
* Jenkins
  + CICD intro
  + Jenkins Architecture
  + Jenkins installation and components
  + Freestyle jobs
  + Pipeline Scripts with Jenkins File
  + Multipipeline Jenkins job
  + Tool configuration
  + Credentials, user access
  + Plugins and more
  + Slave configuration
* Docker – Containerization Tool
  + Introduction and architecture
  + Installation and components
  + Docker registry, images, containers, volumes and more
  + Docker Files.
  + Docker Compose.
* Ansible
  + Intro and Architecture
  + Adhoc commands
  + Ansible modules
  + Ansible playbooks and inventory
  + Ansible vault
* Terraform – Infrastructure As Code (IAC)
  + Intro and architecture
  + Terraform providers.
  + HCL and basics of HCL language
  + Terraform State File.
  + Terraform variables.
  + Terraform lifecycle and more concepts.

**Why AWS?**

AWS cloud Computing platform is one of the most popular public cloud services used in IT.

IT infra creation and maintenance is the most important concern in IT and all the software development, testing, delivery is dependent on a good and a flexible infra, which can be reliable, scalable and durable.

AWS offers us a cloud service platform which gives its customers 100 percent reliability, scalability, and durability.

Also AWS is a ON DEMAND cloud service platform which is way cheaper than other on prem platforms. Hence, currently and in the future AWS will be a go to option for over 70 percent of the companies.  
  
​​​​​​**Why DevOps?**

DevOps is important because it's a software development and operations approach that enables faster development of new products and easier maintenance of existing deployments.

DevOps is the combination of cultural philosophies, practices, and tools that increases an organization’s ability to deliver applications and services at high velocity: evolving and improving products at a faster pace than organizations using traditional software development and infrastructure management processes. This speed enables organizations to better serve their customers and compete more effectively in the market.

DevOps gives multiple benefits such as speed, rapid delivery, reliability, scalability, improved collaboration, and security.  
  
**What We Offer ?**

Updated Curriculum as per industry requirement.

Mock Groups: We will create a group of students to improve communication, presentation, question answering, doubt clearing, and knowledge sharing.

Mock Interviews: Conducting interviews from industry experts to get real time interview experience and to evaluate the weekly performance of students.

Hands on demonstration of all services & real time projects.

Set up of job offering accounts LinkedIn, Naukri Accounts.

Final Project Interviews.

Resume Preparation from High-Skilled Faculty.

Assistance in Uploading Resumes on Different Jobs portals with recent skill sets to get more interview calls.