

Cloud Computing

COURSE OUTLINE

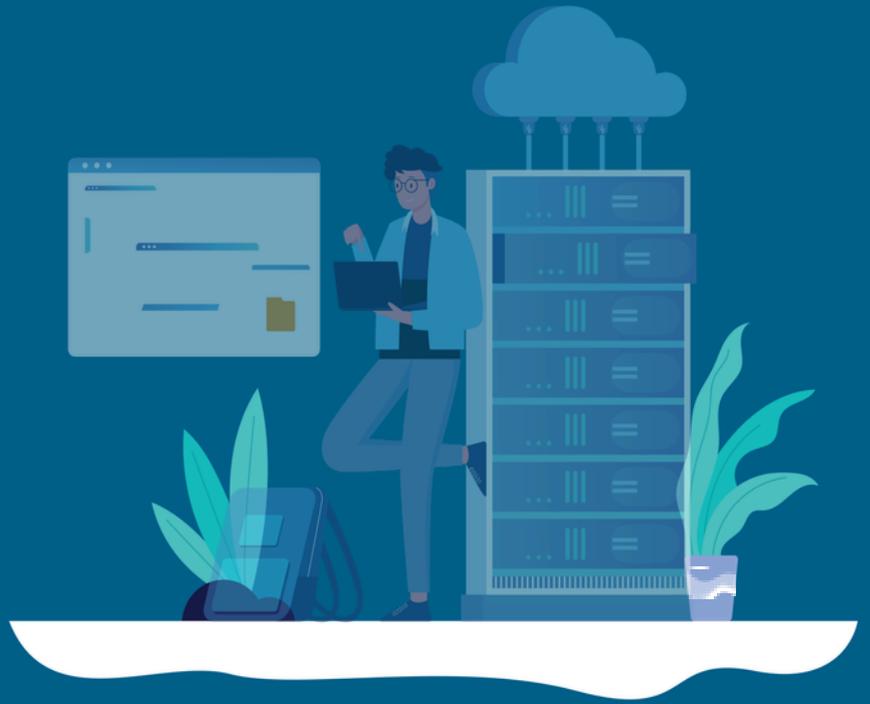
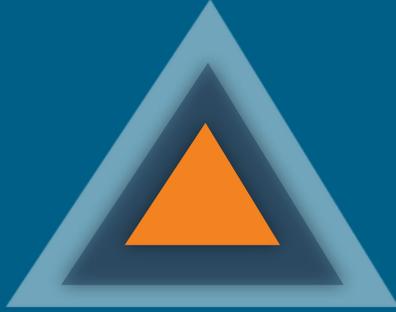


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NS3EDU: BRIDGE YOUR IT DREAMS TO REALITY



EMPOWERING CAREERS THROUGH KNOWLEDGE

Looking to make it big in the world of IT networking? Look no further than NS3Edu! We help beginners learn the ropes & experienced pros master new skills. Come join us and build your dream career!

MISSION

The mission of NS3Edu is to

empower our candidates with in-depth knowledge of IT fundamentals along with real-time industry experience and also take 100% responsibility for the placement by making them Industry fit.

CERTIFICATES



VISION

In-depth knowledge + hands-on experience + analytical thinking = placement



Learning



Opportunity



Experience



Career



ROADMAP OF **JOB**

PLACEMENT

Confused
in **Different**
Career Options



Qualifies- Job
Placement

Career Diagnosis
System



Opportunities for
Job Placement

Counselling & Demo
sessions



Screening by **Corporate HR**
& **Tech Team**

Student **Enrollment &**
Induction session



2 Week **Technical**
Task Training

Course Kick off
(Live Classes)



NS3 Tech Industrial
Exposure

Access to Recorded
Sessions,
E book & Lab Manual



Course Completion

WHAT MAKES US UNIQUE?

USP'S

Industry Demand &
Customized Courses



Course Outline

LEVEL 1: Cloud Computing Fundamentals (Beginner Level)

Part 1: Introduction to Cloud Computing

- What is Cloud Computing
- Traditional IT vs Cloud
- Evolution of Cloud
- Benefits & Challenges of Cloud
- Cloud Use-Cases in Industry

Part 2: Cloud Service & Deployment Models

- IaaS, PaaS, SaaS
- Public, Private, Hybrid & Multi-Cloud
- Shared Responsibility Model
- Cloud Cost Basics

Part 3: Cloud Architecture Fundamentals

- Regions, Availability Zones
- Fault Tolerance & High Availability
- Scalability & Elasticity
- Load Balancing Concepts

Part 4: Cloud Networking Basics

- Virtual Networks (VPC / VNet)
- Subnets (Public & Private)
- Route Tables
- Internet Gateway & NAT
- Cloud Firewalls & Security Groups

LEVEL 2: Core Cloud Services & Operations (Intermediate Level).

Part 5: Cloud Compute Services

- Virtual Machines (VMs)
- Instance Types & Sizing
- Auto Scaling Concepts
- Load Balancers

Part 6: Cloud Storage Services

- Object Storage
- Block Storage
- File Storage
- Storage Classes
- Backup & Snapshots



Part 7: Identity & Access Management (IAM)

- Users, Groups & Roles
- Policies & Permissions
- MFA & Security Best Practices
- Identity Federation Basics

Part 8: Databases & Application Services

- Managed Databases
- Relational vs NoSQL
- Backup, Replication & HA
- Application Hosting Basics

Part 9: Monitoring, Logging & Cost Management

- Cloud Monitoring Concepts
- Metrics, Logs & Alerts
- Cost Tracking & Optimization
- Resource Tagging

LEVEL 3: Advanced Cloud Engineering (Professional Level)

Part 10: Cloud Security & Compliance

- Cloud Security Fundamentals
- Encryption at Rest & In Transit
- Key Management Services
- Cloud Compliance Basics
- Secure Cloud Architecture

Part 11: Automation & DevOps Basics

- DevOps Overview
- CI/CD Fundamentals
- Infrastructure as Code (IaC)
- Terraform Basics
- Configuration Management Intro

Part 12: Containers & Cloud-Native Concepts

- Docker Basics
- Containerization Concepts
- Kubernetes Overview
- Managed Kubernetes Services
- Cloud-Native Architecture

Part 13: Serverless Computing

- Serverless Concepts
- Functions as a Service
- Event-Driven Architecture
- API Gateway Basics

Part 14: Hybrid & Multi-Cloud Architecture

- Hybrid Cloud Design
- On-Prem to Cloud Connectivity
- Multi-Cloud Strategies
- Cloud Migration Approaches

Part 15: Real-World Cloud Projects

- Cloud Infrastructure Setup Project
- Scalable Web Application Deployment
- Secure Cloud Network Design
- Cloud Migration Mini Project
- Cost Optimization Project

Part 16: Career & Certification Preparation

- Cloud Engineer / Cloud Admin Roles
- AWS / Azure / GCP Certification Overview
- Interview Questions & Scenarios
- Resume & Project Portfolio Guidance
- Mock Interviews

OUR PLACEMENT PARTNERS



YOUR FUTURE OUR RESPONSIBILITY



Free consulting



Get trained with certified trainers



24X7 Lab access



Employability enhancement program



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NETWORK SECURITY



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CLOUD SERVICE



FULL STACK DEVELOPMENT



DIGITAL MARKETING



DATA SCIENCE



AI ML LEARNING