



# **Course: Google Cloud Platform**

Duration: 20 Hrs (Changeable) | Fees: Individual / Batch

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of over 250 industry experts. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. We offer 100% placement support through JobsNEAR.in

## **Our Courses/Internship**

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, SalesForce, Sap
- Microsoft Excel
- Ethical Hacking



Syllabus on the Next Page ..



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# **Module 1: Overview Cloud & Google Cloud Platform**

- \* Cloud overview & Characteristics
- \* Cloud Service Model (IAAS, PAAS, SAAS)
- \* Cloud Deployment Model (Public, Private, Hybrid)
- Google Cloud Plateform (GCP) Infrastructure Overview
- \* Create GCP Account & Console Overview
- Organizations, Folder, Project, Resource & Billing
- \* Google Cloud Architecture Framework

#### **Module 2: Virtual Machines**

- \* Compute Engine (VM): Types & Options
- \* VM Instance Lifecycle & Common Operations
- \* Machine Types & Compute Options (VCPU And Memory)
- \* In Compute Engine
- Images & Snapshots
- \* Disk Types: Local SSD, Persistent & Balanced

#### **Module 3: Virtual Networks**

- \* Virtual Private Cloud (VPC) & Types, Subnets
- \* Ip Addresses (Public/Private), Nic
- \* Routes & Route Table
- # Firewalls
- \* Network Topology Options

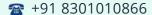
#### **Module 4: Cloud IAM**

\* IAM Basic: Authentication, Authorization & MFA

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- \* Roles, Members, Service Account, Policy
- \* Resource Hierarchy
- \* Cloud IAM Best Practices

### Module 5: Data Storage Services

- \* Google Cloud Storage Overview & Structure
- \* Storage Classes, Versioning & Lifecycle Policies
- \* Cloud SQL For Database (MySQL, Postgresql and SQL Server)
- Cloud Spanner: Fully Managed Relational DB
- Cloud Datastore
- \* Cloud Bigtable: NOSQL Big Data Service

### Module 6: App Engine, Functions, Cloud Run

- \* App Engine: Serverless Web Apps
- \* App Engine Environments: Standard Vs Flexible
- \* Cloud Functions: Events & Triggers
- \* Cloud Run: Serverless Containers

# Module 7: Resource Management

- \* Cloud Resource Manager Overview
- \* Quotas, Labels, Names & Billing

# **Module 8: Resource Monitoring**

- \* Stackdriver: Cloud Monitoring & Logging
- \* Logging, Error Reporting, Tracing, Debugging

### Module 9: Interconnecting Networks

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- Virtual Private Network (VPN) & Its Types
- \* VPC Peering (Public & Private)
- \* Cloud DNS, Cloud Interconnect & Cloud Router

### Module 10: Load Balancing & Autoscaling

- \* Load Balancing Types: Internal, External, Global & Regional
- \* Https, Network, SSL & TCP Load Balancers
- Cross-Region and Content-Based Load Balancing
- \* Autoscaling Policies & Configuration

### Module 11: Google Kubernetes Engine

- \* Microservices, Containers, Docker & Kubernetes
- \* GCP Kubernetes Engine (GKE), Understand the Relationship
- Between Kubernetes
- \* and Google Kubernetes Engine (GKE)
- \* Kubernetes Architecture : Clusters, Node, Node Pools, Pods, Services
- \* Deploy & Manage Workloads on GKE

# Module 12: Maintenance & Monitoring

- \* Capacity Planning and Cost Optimization
- \* Deployment, Monitoring and Alerting, And Incident Response
- \* Monitoring and Alerting

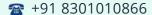
### **Module 13: Cloud Migrations**

- \* Understanding Migration Used Cases
- \* Understanding Migration Tools and Process

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(Click on Course for more details)

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- Thank You -

N.B:This syllabus is not final and can be customized as per requirements / updates.

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