

COURSE BROCHURE

# Google Cloud Platform

GCP-101 — Beginner · 8 Weeks · Online & Offline

*Build. Deploy. Scale — on Google Cloud.*

## AT A GLANCE

DURATION <b>8 Weeks</b>	LEVEL <b>Beginner</b>	MODE <b>Online / Offline</b>
CERTIFICATE <b>Yes — on completion</b>	BATCH SIZE <b>15–20 students</b>	LANGUAGE <b>English / Hindi</b>

## ABOUT THE COURSE

This course provides a comprehensive introduction to Google Cloud Platform (GCP), covering the core services used by developers, architects, and DevOps engineers in real-world production environments. Students will gain hands-on experience with cloud infrastructure, security, scalability, and modern DevOps practices — preparing them for industry roles and Google Cloud certifications.

## COURSE MODULES

### Module 1

#### Google Cloud Fundamentals

- Cloud computing concepts and GCP overview
- GCP Console, Cloud Shell, and CLI tools
- Regions, zones, and global infrastructure
- Pricing calculator and billing management

### Module 2

#### IAM — Identity & Access Management

- Users, roles, and service accounts
- IAM policies and resource hierarchy
- Organization policies and constraints
- Audit logging and compliance

**Module 3****Compute Engine**

- Creating and managing virtual machines
- Machine types, images, and disks
- Instance groups and autoscaling
- SSH access and startup scripts

**Module 4****Cloud Storage**

- Buckets, objects, and storage classes
- Lifecycle management and versioning
- Access control and signed URLs
- Transfer and sync tools

**Module 5****VPC & Networking**

- Virtual Private Cloud architecture
- Subnets, firewall rules, and routes
- Cloud Load Balancing and Cloud CDN
- VPN, Interconnect, and Peering

**Module 6****Kubernetes Engine — GKE**

- Container and Docker fundamentals
- Cluster creation and node pools
- Deploying and scaling workloads
- Services, Ingress, and ConfigMaps

**Module 7****App Engine & Cloud Run**

- Serverless deployment with App Engine
- Containerised apps on Cloud Run
- Traffic splitting and versioning
- CI/CD integration with Cloud Build

**Module 8****Cloud SQL & Firestore**

- Managed relational databases on Cloud SQL
- NoSQL with Firestore and Datastore
- Backups, replicas, and failover
- Connecting apps to managed databases

✓ Design and deploy cloud-native applications on GCP	✓ Configure IAM roles, policies, and service accounts securely
✓ Provision and manage Compute Engine VMs and instance groups	✓ Build and manage containerised workloads using GKE
✓ Design scalable network architectures with VPC and Load Balancing	✓ Work with managed databases — Cloud SQL and Firestore
✓ Automate deployments using Cloud Build and Cloud Run	✓ Prepare for Google Cloud Associate Cloud Engineer certification

#### WHO IS THIS FOR

##### Freshers & Students

Looking to break into cloud computing with a strong foundation.

##### IT Professionals

Wanting to upskill and transition into cloud/DevOps roles.

##### Developers

Who want to deploy and manage applications on GCP.

##### Job Seekers

Preparing for cloud roles and Google certifications.

**Ready to get started?**

Contact us to enrol or know more  
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