

# CLOUD COMPUTING BROCHURE



**MSME**  
MICRO, SMALL & MEDIUM ENTERPRISES

सूक्ष्म, लघु एवं मध्यम उद्यम  
OUR STRENGTH • हमारी शक्ति  
Ministry of MSME, Govt. of India



 **TechFest**  
**IIT BOMBAY**



# About Glowlogics

Glowlogics is a **government-verified MSME and Startup India-recognized company offering ISO-certified internships. In partnership with Techfest, IIT Bombay, & E-cell Hyderabad**

we are committed to fostering innovation and skill development, providing practical, industry-relevant expectation

## Unlock Your Future with CLOUD COMPUTING

**Cloud computing** is the delivery of services like storage, servers, databases, and software over the internet. Instead of managing physical infrastructure, users access these resources on-demand from providers like AWS, Azure, or Google Cloud—paying only for what they use. This enables flexible, scalable, and cost-effective computing for businesses and individuals.

### Why Cloud Computing?

Cloud computing is revolutionizing the way businesses operate, enabling agility, scalability, and cost-efficiency like never before. From startups to global enterprises, cloud solutions have become indispensable for digital transformation. This Cloud Computing Certification Program equips you with the knowledge and skills to master cloud platforms, architecture, services, and security, making you job-ready in this high-demand field.



# Curriculum Overview

## 1. Introduction to Cloud Computing

- Fundamentals of cloud computing
- History and evolution of cloud services
- Understanding IaaS, PaaS, SaaS models
- Public, private, and hybrid clouds

## 2. Cloud Service Providers

- AWS (Amazon Web Services)
- Microsoft Azure
- Google Cloud Platform (GCP)
- Overview of each provider's strengths and offerings

## 3. Cloud Infrastructure Management

- Virtualization technologies
- Virtual Machines, Containers, and Serverless Computing
- Networking in the cloud (VPCs, DNS, Load Balancers)
- Storage Solutions (S3, EBS, Azure Blob, Google Cloud)

## 4. Cloud Security

- Identity and Access Management (IAM)
- Encryption and Data Security in the cloud
- Securing cloud infrastructure (firewalls, security groups)
- Disaster recovery and backup strategies



## 5. Cloud Automation & DevOps

- Introduction to DevOps and its role in cloud computing
- Continuous Integration/Continuous Deployment (CI/CD)
- Automation tools: Terraform, Ansible, Jenkins, AWS CloudFormation
- Monitoring cloud infrastructure with tools like CloudWatch, Azure Monitor

## 6. Database Management in the Cloud

- Managed Databases (RDS, DynamoDB, CosmosDB, Cloud SQL)
- NoSQL vs. SQL databases in cloud environments
- Database scaling and management strategies

## 7. Cloud Architecture Design

- Designing scalable, fault-tolerant cloud architectures
- Microservices architecture and container orchestration with Kubernetes
- Best practices for cloud resource management
- Multi-cloud and hybrid cloud strategies

## 8. Real-World Applications

- Building and deploying web applications in the cloud
- Migrating on-premise infrastructure to the cloud
- Cloud-native development and serverless architectures

# Sample Projects

Work on an industry-relevant Capstone Project that integrates all the skills and knowledge acquired during the course. Examples of projects include:

- Cloud-based E-commerce platform
- Scalable data analytics system
- Serverless application development

**These are sample projects only. Unique capstone projects will be discussed in the live class**



75,000+  
Students



1:1 Personalized  
Mentorship



Taught by  
Industry Experts



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# Certificates





अखिल भारतीय तकनीकी शिक्षा परिषद्  
All India Council for Technical Education



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