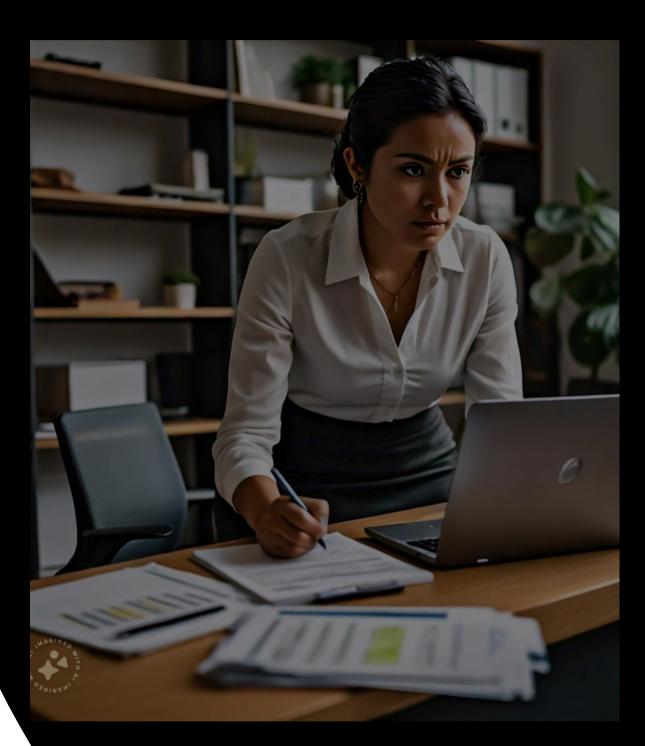


# Azure Cloud Computing



# **OUR MISSION:**



"Our mission is to empower learners worldwide through innovative technology, personalized learning experiences, and accessible educational resources. We strive to cultivate a community where every individual can achieve their full potential, regardless of their background or circumstances."

# **OUR VALUES:**

"To pioneer the future of education by leveraging cutting-edge technology to make learning more engaging, effective, and inclusive. We envision a world where education transcends boundaries, creating opportunities for lifelong learning and fostering a society enriched by knowledge and creativity."

### **Week 1: Introduction and Core Services**

- Day 1-2: Azure Overview
  - Introduction to Azure
  - Azure Portal and Dashboard
  - Azure Resource Manager (ARM)
- Day 3-4: Compute Services
  - Virtual Machines (VMs)
  - App Services
  - Azure Kubernetes Service (AKS)
- Day 5: Networking
  - Virtual Networks (VNets)
  - Load Balancers
  - Network Security Groups (NSGs)
- Day 6-7: Storage Services
  - Blob Storage
  - Azure Files
  - Disk Storage

### **Week 2: Data Management and Databases**

- Day 1-2: Azure SQL Database
  - Creating and Managing SQL Databases
  - Performance Tuning and Monitoring
- Day 3-4: NoSQL Databases
  - Cosmos DB
  - Azure Table Storage
- Day 5-6: Data Warehousing
  - Azure Synapse Analytics
  - Data Lake Storage
- Day 7: Big Data and Analytics
  - HDInsight
  - Azure Databricks

### **Week 3: Identity, Security, and Governance**

- Day 1-2: Identity and Access Management
  - Azure Active Directory (AD)
  - Role-Based Access Control (RBAC)
- Day 3-4: Security and Compliance
  - Azure Security Center
  - Azure Sentinel
  - Key Vault
- Day 5-6: Governance and Policy
  - Azure Policy
  - Blueprints
  - Cost Management
- Day 7: Monitoring and Alerts
  - Azure Monitor
  - Log Analytics
  - Application Insights

### **Week 4: Advanced Networking and Integration**

- Day 1-2: Advanced Networking
  - VPN Gateway
  - ExpressRoute
  - Traffic Manager
- Day 3-4: Application Integration
  - Logic Apps
  - Azure Functions
  - Event Grid
- Day 5-6: Messaging Services
  - Service Bus
  - Event Hubs
  - Notification Hubs
- Day 7: API Management
  - API Gateway
  - Developer Portal

### Week 5: DevOps and Automation

- Day 1-2: Introduction to DevOps
  - Azure DevOps Services
  - CI/CD Pipelines
- Day 3-4: Infrastructure as Code (IaC)
  - ARM Templates
  - Terraform on Azure
- Day 5-6: Automation
  - Azure Automation
  - PowerShell and Azure CLI
- Day 7: Monitoring and Logging in DevOps
  - Azure Monitor for DevOps
  - Application Insights for DevOps

### Week 6: Advanced Compute and Al Services

- Day 1-2: Advanced Compute
  - Azure Batch
  - Azure HPC
- Day 3-4: Artificial Intelligence and Machine Learning
  - Azure Machine Learning
  - Cognitive Services
- Day 5-6: Al Integration
  - Bot Service
  - Azure AI Gallery
- Day 7: Case Studies and Practical Applications
  - Real-world AI projects on Azure

### Week 7: Migration and Hybrid Cloud

- Day 1-2: Migration Strategies
  - Azure Migrate
  - Database Migration Service
- Day 3-4: Hybrid Cloud Solutions
  - Azure Arc
  - Azure Stack
- Day 5-6: Backup and Disaster Recovery
  - Azure Backup
  - Azure Site Recovery
- Day 7: Review and Best Practices
  - Review Key Concepts
  - Best Practices for Migration

### Week 8: Capstone Project and Certification Preparation

- Day 1-4: Capstone Project
  - Design and Implement a Complex Azure Solution
  - Presentation and Review
- Day 5-6: Certification Preparation
  - AZ-104: Microsoft Azure Administrator
  - AZ-204: Developing Solutions for Microsoft Azure
  - AZ-305: Designing Microsoft Azure Infrastructure Solutions
- Day 7: Final Assessment and Q&A
  - Comprehensive Assessment
  - Q&A Session

# Our Partners Company's



























**FOR SUPPORT** 

+91 9652379012

www.techteachedsols.com

tech.ed.sols@gmail.com

THANKYOU

www.techteachedsols.com