



# 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."**



# COURSE CURRICULUM:

## 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

# COURSE CURRICULUM:

## 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**

# COURSE CURRICULUM:

## **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**

# COURSE CURRICULUM:

## 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

# COURSE CURRICULUM:

## 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

# COURSE CURRICULUM:

## **Week 6: Advanced Compute and AI 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: AI Integration**
  - **Bot Service**
  - **Azure AI Gallery**
- **Day 7: Case Studies and Practical Applications**
  - **Real-world AI projects on Azure**



# COURSE CURRICULUM:

## **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**

# COURSE CURRICULUM:

## **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



The logo consists of the letters 'TS' in a large, bold, black sans-serif font, centered within a white circular shape that has a slight drop shadow and a curved bottom edge, resembling a sticker or a button.

**TECH TEACH**  
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