



Azure | DevOps

Syllabus



3000+

Placed Students



650+

Job Recruiters



50+

Expert Trainers



470+

Projects Works



100%

Placement Support

COURSES



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EdTech by Kunal Sir



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Behind Every Great Institute is a Great Founder



Mr. Kunal Sir

Director of CJC EdTech by Kunal Sir

Mr. Kunal Sonu, Director of **CJC EdTech by Kunal Sir**, holds a Master's degree in Computer Applications & has over **15+ years** of experience in Java/J2EE technologies. After resigning from Syntel, he pursued a career in teaching to provide in-depth knowledge and guidance to aspiring professionals. **Mr. Kunal** has delivered lectures at renowned institutions such as **Sinhgad Institutes, JSPM Group, & MMCOE, Pune**. With a passion for education, he is dedicated to helping **students achieve success in their careers**.

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3000+
Placed Students



15+
Course Options



650+
Job Recruiters



50+
Expert Trainers

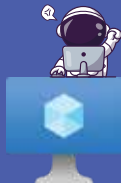
Microsoft Azure

- ▲ Introduction to Azure
- ▲ Azure Hosting Models
- ▲ Azure Services
- ▲ Subscribing to Microsoft Azure
- ▲ Azure Portals
- ▲ Azure Resource Group
- ▲ Installing Microsoft Azure SDK
- ▲ App Types
- ▲ Deploying Web App directly from Visual Studio
- ▲ Monitoring, Debugging, and Diagnosis
- ▲ Comparing SQL Azure Database to Azure / On-Premise SQL Server
- ▲ Creating and Using SQL Server and SQL Database
- ▲ Azure SQL Database Tools
- ▲ About Azure Storage
- ▲ API Management Services – Working with Storage Tables, Blobs, Files – Working with Azure Queues
- ▲ Azure Service Bus – Relayed Messaging – Service Bus Queues – Topics and Subscriptions
- ▲ Azure Active Directory – IAM Role and Policies – MFA (Multi-Factor Authentication)



Azure IAAS Virtual Machine

- ▲ Create a Windows/Linux Virtual Machine using Portal / PowerShell
- ▲ Understanding and Capturing VM Images
Deploy a New VM Instance from the Captured Image
- ▲ Deploy Popular Application Frameworks by Using Azure Resource Manager Templates
- ▲ Understanding and Creating Availability Sets
Load Balancing Between Multiple Virtual Machines



Linux operating system

- 🐧 Architecture and Dual Hosting in Linux
- 🐧 General Purpose Commands
- 🐧 Networking Concepts
- 🐧 Package Manager – Installing Software on Linux
- 🐧 SSH (Secure Shell)
- 🐧 Shell Scripting
- 🐧 Network Protocol



Azure PAAS Virtual Machine

- ▲ Azure app service-web app
- ▲ Function app
- ▲ Logic app



Auto Scaling

- Auto Scaling Components
- Attach & Detach VMs
- Configuring Scale Set Policy
- Shut Down – Auto Scaling Process
- Monitoring – Auto Scaling VM Health Checks



Azure SQL And CosmosDB

- Create blank database in Azure SQL Database
- Create server-level IP firewall rule
- Connect with database
- Create tables in database
- Load data into tables
- Query data
- Create container database in Cosmos DB
- CRUD operations using SQL and Cosmos DB



Monitoring

- ▲ Application Insight
- ▲ Log analytics



Azure DevOps

- ▲ Azure Boards
- ▲ Azure Repos
- ▲ Azure Pipelines
- ▲ Azure Test Plans
- ▲ Azure Artifacts
- ▲ Azure Extensions Marketplace
- ▲ Implement CI/CD in Azure DevOps
- ▲ SonarCloud



Agile

- Understanding Agile
- Scrum Methodology
- Scrum Roles, Events, Scrum Terms, and Artifacts
- Estimating in Agile



Version Control System (Git)



- ▲ Introduction to Version Control System
- ▲ Git Working Principles
- ▲ Git Commands

init

clone

add

checkout

commit

push

pull

merge

fetch

revert

rebase

branch

tag, etc.

- ▲ Difference Between Local and Remote Repositories
- ▲ Merging Strategy
- ▲ Mention All Merging Strategies
- ▲ Branching Strategy

Terraform And ARM Templates



- △ Introduction to Infrastructure as Code
- △ Terraform Architecture
- △ Terraform CLI Installation and Setup
- △ Terraform Resources
- △ Terraform Variables
- △ Terraform Data Sources
- △ Terraform Workspaces
- △ Terraform State Manipulation
- △ Terraform Modules
- △ Terraform Repository Modules
- △ Custom Modules
- △ Terraform Built-in Functions

CI/CD (Continuous Integration & Continuous Deployment)

- ✓ Creating CI/CD pipeline for web application deployment in both IaaS and PaaS services
- ✓ Creating CI/CD pipeline for Infrastructure as Code (Terraform and ARM Templates)
- ✓ Integrate SonarCloud in CI pipeline

Docker

- △ Introduction to Docker (Docker Hub, Docker Container, Docker Image)
- △ Docker Lifecycle
- △ Build a Dockerized Web Application with Linux & Windows
- △ Creating Different Environments Using Docker
Dev | SIT | UAT | Prod
- △ Creating Different Environments Using Docker (duplicate – consider removing one)
- △ Logging Techniques
- △ Scalability with Docker



Kubernetes

- ▲ Introduction to Kubernetes
- ▲ Understand the Kubernetes API
- ▲ Kubernetes Application Architecture
- ▲ Kubernetes Networking
- ▲ Storage in Kubernetes
- ▲ Kubernetes Deployment, Scaling & Monitoring



Shell scripting

- ▲ Types of Shells
- ▲ Script execution approaches
- ▲ Variables
- ▲ Operations
- ▲ Conditions
- ▲ Loops
- ▲ Functions

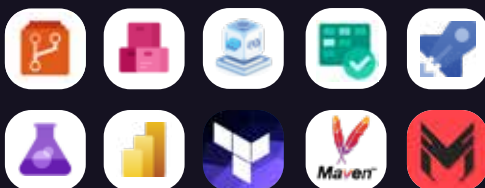


SonarQube (Static Code Analysis)

- ▲ What is static code analysis?
- ▲ SonarQube components
- ▲ SonarQube Setup and Configuration
- ▲ Projects
- ▲ CI introduction and configuration
- ▲ Rules
- ▲ SonarQube UI analysis



From Hello World to Full Applications, My Coding Growth



Why **Coding Feels Impossible?**
Kunal Sir Has the **Answer!**



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