



COEP Technological University, Pune

A Unitary Public University of the Government of Maharashtra

BUILD YOUR FUTURE WITH NEXT-GEN TECH SKILLS

Industry-focused short-term IT courses

Learn. Build. Get hired.



Data Science



Full Stack Java



Full Stack Python



300 hours
comprehensive
training



3 months
duration



Joint certificate
from COEP
and USDC



Placement
assistance



Offline at
COEP campus

In association with



USDC
TECHNOLOGIES



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In association with



1. DATA SCIENCE

Turn data into decisions that drive the future.

300 HOURS | 3 MONTHS | INDUSTRY-ORIENTED PROGRAM

SYLLABUS OVERVIEW (6 STEPS)

01

Python Foundations

Core Python, data types, functions, modules

02

Data Analysis

NumPy, pandas, cleaning, aggregation, EDA

03

SQL & Excel

Queries, joins, extraction, formulas, pivot tables

04

Data Visualisation

Power BI, Matplotlib, Seaborn, Plotly

05

Machine Learning

Jupyter, scikit-learn, supervised and unsupervised models

06

Deployment Workflow

GitHub, Streamlit, documentation, data apps



SKILLS YOU WILL MASTER

Python | Data analysis | SQL & Excel | Visualisation
Machine learning | Deployment



CAREER PATHWAYS

Data Analyst | Business Analyst | Data Scientist
ML Engineer | BI Developer | Data Engineer



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2. FULL STACK PYTHON

Build scalable, high-performance web applications using Python and modern technologies.

300 HOURS | 3 MONTHS | INDUSTRY-ORIENTED PROGRAM

01

Core Python & Advanced Scripting
Python, OOP, exceptions, modules, decorators, concurrency

02

Advanced Python & Systems
advanced Python development and systems concepts

03

Database Engineering & ORM
PostgreSQL, MongoDB, Redis

04

Frontend Web Development
React 18, TypeScript, Tailwind CSS, Redux Toolkit

05

FastAPI, Django & Microservices
Django REST, Kafka, Celery, gRPC

06

Cloud, DevOps & Testing
Pytest, Docker, GitHub Actions, AWS



CAREER PATHWAYS

Python Developer | Backend Developer | Full Stack Developer | Software Engineer | Web Developer | API Developer | DevOps Engineer



CAREER READINESS

Instructor-led learning | Practical projects | Capstone project | Coding challenges | Mock interviews | Resume preparation



Placement outcomes depend on individual skills, academic background, interview performance, and employer requirements.



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3. FULL STACK JAVA

Build enterprise-grade web applications with robust backends and dynamic frontends.

300 HOURS | 3 MONTHS | INDUSTRY-ORIENTED SOFTWARE DEVELOPMENT PROGRAM



01

Core & Advanced Java
OOP, Collections, Streams, Multithreading, Design Patterns



02

Database & ORM
SQL, JDBC, JPA, Hibernate



03

Spring Boot & Secure REST APIs
Spring Boot, Spring Security, JWT



04

Microservices & Integration
Redis, Kafka, API Gateway



05

Frontend Development
HTML, CSS, JavaScript, TypeScript, React.js



06

Cloud, DevOps & Testing
Git, GitHub, Docker, C/CD, AWS, JUnit, Mockito, Postman



CAREER PATHWAYS

Java Developer | Backend Developer | Full Stack Developer | Software Engineer | Application Developer



CAREER READINESS

Coding labs | Real-world projects | Assessments | Code reviews | Mock interviews | Resume and LinkedIn support



Basic computer knowledge is recommended. Placement is not guaranteed and depends on individual performance, skills, and market opportunities.



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