

Full Stack Web Development with Python Django

A Recruitment Portal

Full Stack web development has increased its popularity like never before. A full stack developer needs both front-end and back-end skills. Where backend requires a lot of coding skills and front-end requires more of designing & experience perspective for a coder. For backend, we can use PYTHON. The python language is one of the most accessible programming languages available because it has simplified syntax and not complicated, which gives more emphasis on natural language. Django is a high-level Python web framework that enables rapid development of secure and maintainable websites. Built by experienced developers, Django takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel. It is free and open source, has a thriving and active community, great documentation, and many options for free and paid-for support.

With this program one can get a kick-start to their caree<mark>r in the</mark> field of web development from Zero to Hero level. The program comprises of Basic Python Scripting, HTML/CSS/Bootstrap/JS Implementation and Django Framework for backend development.

Why should you learn from us?

- A Team built with Professional Trainers having an experience of delivering for more than 20K students
- An outreach of 300+ colleges pan India
- Associated with multiple Corporate as hiring partners
- Live Interactive Online Sessions with Animations and 360-degree views for topic explanation.
- Daily 15 minutes Query Solving Session at the end of the session.
- Availability of Recorded Sessions with Personalized Accounts for convenient revisions
- And very affordable never-before fees

	The Fee structure is mentioned below:		
DURATION	6 Week / 90 Hours	For JECRC Students	
Course Fee	INR 12500/- + 18 % GST (INR 14,750/-)	INR 5865/-+18%GST =INR 6920/-	

Who can attend this program?

- Engineering Undergraduates/Computer Programming Pursuing
- Python/Web Development Hobbyists
- Students willing to Get through with Web Development Career
- Knowledge of any computer programming is advantageous



Project Titles

Final Project (1)

"A Recruitment Portal"

Capstone Projects (3)

- 1. Deploying a Django Based Application for House Price Prediction
- 2. Myntra Clone: An E-commerce website with variety of clothes
- 3. Image Blogger Web Application (Instagram/Pinterest Clone)

Mini Projects (6)

- 1. CLI based Student Registration & Login Portal
- 2. Instagram / Pinterest Home Page clone
- 3. Weather Meter Application
- 4. An online Quiz App
- 5. News Portal
- 6. Resume Builder Application



Full Stack Web Development using Python Django (Duration - 6 Weeks/90 Hours) Introduction with Python & Linux What is Web Development Basic Linux/Windows Commands Introduction & Setup (2.5 Hours) Installing & Setting up Python on System **Understanding its Command Line & Scripts** Simple Python Program Python Variables, Rules of Identifiers Creating, Using and Printing a Variable in Python Taking User Inputs from Python **Some Common Functions Python Keywords** Interactive Mode & Script Mode Programming **Python Comments Python Operators:** Arithmetic, Assignment, Relational, Logical, Bitwise, Identity, Membership **Python Braces:** (), {}, [] **Python Data Types/Classes:** int, float, complex, str, list, tuple, dict, set, bool Numeric Data Types: Creation, Modification, Use of Operators, Built-in Python Data & **Functions** Types (6 Hours) **Concept of Mutability String Data:** Creation, Accessing, Modification*, Use of Operators, Built-in Functions, Use of Triple Quotes **List:** Creation, Accessing, Modification, Use of Operators, Built-in Functions **Tuple:** Creation, Accessing, Modification, Use of Operators, Built-in W1 **Functions Dictionary**: Creation, Accessing, Modification, Use of Operators, Built-in Functions Type Casting in Python **Set**: Creation, Accessing*, Modification, Use of Operators, Built-in Functions **Boolean**: Creation, Use of Operators **Some Common Functions** Control Concept of Indentation in Python Statements in Python Suites: Simple, Nested, Ladder, Hybrid **Python** Conditional IF: Use of if-elif-else in Python (2.5 Hours) WHILE: Use of while statement in Python **FOR** Loops: The for-loop behavior in Python Python Loops *Using range() function* Use of break and continue Some Common Functions Writing Python IF in one line List Comprehension **Use of Conditionals** Comprehensions **Nested Comprehensions Shortcuts to Create Tuples Dictionary Comprehension**

Contact: **+919251 494002**, **+91 9024 640640**



	<u> </u>	
		 Shortcuts to Create Dictionary Set Comprehension Tuple/? Comprehension** Some Common Functions
	User-defined Functions (4 Hours)	 Defining and calling a custom user defined Function Types of Functions by parameters/arguments Default Arguments Arguments Skipping Variable Length Arguments *args Keyword Arguments **kwargs Passing Functions as Arguments Recursion Anonymous Functions: Lambda Expressions Use of map(), filter(), reduce() Generators: Use of Generators, Significance Creating Custom Generator Comprehension Some Common Functions
W2	Modules & Packages	 Python Library & Packages Using Modules by: import, from-import, creating alias Downloading a new module Installing a module Creating User-defined modules Some Commonly used Modules in Python: time, os, datetime, calendar, math, random Finding System Time, Showing Calendars Generating Random Numbers Performing Typical Mathematical Operations Creating files, directories Basics of File Handling
	Errors & Exception Handling (1 Hours)	 Assertions in Python Errors and Exceptions Exception Handling: Try, except, finally User Defined Exceptions
	Database in Python (3 Hours)	 Connecting an SQL based Database Setting up PostgreSQL Engine SQL Queries: CRUD Operations, Joining, Ordering, Grouping, Filtering Basic SQL Operations using python
	MINI Project	Project 1: CLI based Student Registration & Login Portal
	HTML (4 Hours)	 What is browser: Introduction Editors HTML PAGE STRUCTURE HTML File Save/Open/Modification What is HTML Elements (Tags and Attributes)

Contact: +919251 494002, +91 9024 640640



	TANDAT.	 Tags: <!DOCTYPE html> , <meta tag=""/>, <html>, <head>, <title>, <body>, <heading>, <paragraph>, <Line break> Style Tag HTML Links, Lists, Images, File Paths, Classes, id Iframes, Table, Div, Span, form, input </th></tr><tr><td></td><td>HTML
(2.5 Hours)</td><td>Canvas, svg, audio, video</td></tr><tr><th>W3</th><th>CSS
(2.5 Hours)</th><th> Introduction, Syntax Selectors Comments, Colors: color, RGB, HEX, HSL Backgrounds: Color, Image Borders: width, color, side Padding Height/Width Text: color, alignment, decoration Fonts: family, style, size Display: max-width, position, z-index, overflow, float Clear Inline-Block Align Templates </th></tr><tr><td></td><td>Bootstrap (2.5 Hours)</td><td> Introduction with Bootstrap The responsive web pages Buttons, Forms, Navbars, Grids Bootstrap Plugins </td></tr><tr><th></th><th>JavaScript
Basics (5 Hours)</th><th> Introduction File Open, Save, Modify Using JS file with HTML; Syntax Data Type and Variables let, var, const, prompt, confirm, alert Operators: Assignment, Arithmetic, Conditional, Logical, Ternary Conditional & Looping Statements Arrays Document Object Modelling Introduction with JQuery Modifying properties of HTML using JS and JQuery </th></tr><tr><td></td><td>Mini Project (2.5 Hours)</td><td>Project 2: "Instagram / Pinterest Home Page clone"</td></tr><tr><td>W4</td><td>Django
(2.5 Hours)</td><td colspan=2> What is Django Django installation Creating First Django Project Running a Django Application </td></tr></tbody></table></title></head></html>
--	---------	--

Contact: **+919251 494002**, **+91 9024 640640**



	Django Template Views (2.5 Hours)	 Django architecture MVC and MTV Starting a project Django apps Activating our first app A view that displays a hyperlink Mapping the views to URLs Running our first app Improving the views using templates The improved templates Template inheritance Sending data from url to view Sending data from view to template
	Mini Project (1.5 Hours)	• Project 3: Weather Meter Application
	Django Models (2.5 Hours)	 Django Models Connecting Postgre/MySQL/SQLite with Django Models-Templates-Views Paradigm
	Django Forms (2.5 Hours)	 Django Forms Form Basics Code Form Validation Model Forms
	Mini Project (1.5 Hours)	• Project 4: An online Quiz Application
	Mini Project (2 Hours)	Project 5: News Portal
	Django Special Features (2.5 Hours)	 Relative URLs with Templates URL Template Inheritance Configuring Email with Django
	Django User Management (2.5 Hours)	 User Models Registrations; Logins Django Passwords Sessions & Cookies
W5	Project (2.5 Hours)	Deploying a Django Based Application for House Price Prediction
	Mini Project (1 Hours)	• Project 6: Resume Builder Application
	Class based Views (2.5 Hours)	 What is CBV in Django Template views with CBVs Detail view and list view CRUD Views
	Restful APIs (1.5 Hours)	Introduction with Django APICreating Restful APIs using Django



	Django Administration (2.5 Hours)	 Admin of Django & Templates Sorting, Searching, Filtering Adding Fields; Editable List View
	Capstone Project (5 Hours)	An Ecommerce Platform (Myntra Clone)
W6	Project (5 Hours)	My Blogging Platform (Like Instagram/Pinterest)
	FINAL PROJECT (10 Hours)	"Recruitment Portal"

