

Python Full Stack Web Development

Class Schedule			
Day	Module	Topic	Hours
HTML (4 hrs)			
03-Mar-25	Frontend Development	Introduction to HTML, Tags, Elements	1
04-Mar-25	Frontend Development	Forms, Input Elements, Attributes	1
05-Mar-25	Frontend Development	Tables, Lists, Multimedia Elements	1
06-Mar-25	Frontend Development	Semantic HTML, Best Practices	1
CSS (4 hrs)			
07-Mar-25	Frontend Development	CSS Basics, Selectors, Properties	1
10-Mar-25	Frontend Development	Box Model, Flexbox, Grid Layout	1
11-Mar-25	Frontend Development	CSS Animations, Transitions	1
12-Mar-25	Frontend Development	Responsive Design, Media Queries	1
JavaScript Basics (6 hrs)			
13-Mar-25	Frontend Development	JavaScript Syntax, Variables, Data Types	1
14-Mar-25	Frontend Development	Functions, Loops, Conditional Statements	1
17-Mar-25	Frontend Development	Arrays, Objects, Event Handling	1
18-Mar-25	Frontend Development	DOM Manipulation, Query Selectors	1
19-Mar-25	Frontend Development	ES6 Features (Arrow Functions, Destructuring)	1
20-Mar-25	Frontend Development	Async/Await, Fetch API	1
React.js (6 hrs)			
21-Mar-25	Frontend Development	React Introduction, Components, JSX	1
24-Mar-25	Frontend Development	Props, State Management	1
25-Mar-25	Frontend Development	Handling Events, Lifecycle Methods	1
26-Mar-25	Frontend Development	React Router, Navigation	1
27-Mar-25	Frontend Development	API Integration with React	1
28-Mar-25	Frontend Development	Building a Mini React Project	1
Python Fundamentals (6 hrs)			
31-Mar-25	Backend Development	Python Basics, Syntax, Variables	1
01-Apr-25	Backend Development	Data Types, Lists, Tuples, Dictionaries	1
02-Apr-25	Backend Development	Conditional Statements, Loops	1

03-Apr-25	Backend Development	Functions, Modules, File Handling	1
04-Apr-25	Backend Development	OOP Concepts (Classes, Objects)	1
07-Apr-25	Backend Development	Error Handling, Logging	1
Python Libraries (4 hrs)			
08-Apr-25	Backend Development	NumPy Basics (Arrays, Operations)	1
09-Apr-25	Backend Development	Pandas (DataFrames, Data Manipulation)	1
10-Apr-25	Backend Development	Data Visualization (Matplotlib)	1
11-Apr-25	Backend Development	Real-World Data Handling	1
API & Django (10 hrs)			
14-Apr-25	Backend Development	REST APIs, HTTP Methods, JSON	1
15-Apr-25	Backend Development	API Testing with Postman	1
16-Apr-25	Backend Development	Django Basics, Project Setup	1
17-Apr-25	Backend Development	Django Models, ORM	1
18-Apr-25	Backend Development	URL Routing, Views	1
21-Apr-25	Backend Development	Templates, Static Files	1
22-Apr-25	Backend Development	Django Forms, Authentication	1
23-Apr-25	Backend Development	Creating REST APIs with Django Rest Framework	1
24-Apr-25	Backend Development	API Security, Token Authentication	1
25-Apr-25	Backend Development	Mini Full-Stack App with React & Django	1
28-Apr-25	Revision	Revision	1
29-Apr-25	Database Management	MySQL Basics, Tables, CRUD Operations	1
30-Apr-25	Database Management	Joins, Indexing, Normalization	1
01-May-25	Database Management	Connecting MySQL with Django	1
02-May-25	Database Management	Query Optimization	1
05-May-25	Database Management	Data Backup & Migration	1
06-May-25	Database Management	Hands-on Practice	1
Git & Deployment (6 hrs)			
07-May-25	Version Control	Git Basics, Repositories, Commits	1
08-May-25	Version Control	Branching, Merging, Pull Requests	1
09-May-25	Version Control	GitHub Actions (CI/CD Basics)	1
12-May-25	IDE Setup	Visual Studio Code Setup	1
13-May-25	IDE Setup	Jupyter Notebooks for Testing	1
14-May-25	DevOps	Deploying Django App to Cloud	1

Final Project (8 hrs)			
15-May-25	Final Project	Planning & Designing Full-Stack App	1
16-May-25	Final Project	Setting Up Frontend & Backend	1
19-May-25	Final Project	Building Core Features (CRUD, Auth)	1
20-May-25	Final Project	Integrating Frontend with Backend	1
21-May-25	Final Project	Testing & Debugging	1
22-May-25	Final Project	Performance Optimization	1
23-May-25	Final Project	Deployment to Cloud	1
26-May-25	Final Project	Project Presentation & Wrap-Up	1
27-May-25	Buffer		1
28-May-25	Buffer		1
29-May-25	Buffer		1
30-May-25	Buffer		1
		Total Hours	65