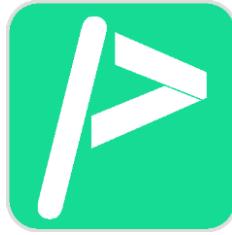


Full-stack Python Developer



<https://www.programink.com/>

Table of content:

<u>Sno.</u>	<u>Module Name</u>	<u>Duration</u> (in hours)	<u>Price</u> (in INR)
1	Python Programming	40	12,000
2	Web technologies & Front-end frameworks	30	9,000
3	Databases & ORMs	30	9,000
4	JavaScript library – React JS	32	20,000
5	Web frameworks – Django & Flask	48	20,000
6	API Frameworks	20	9,000
7	Cloud Services	20	9,000
8	DevOps Tools	20	9,000
9	Data Analytics	20	9,000
10	Capstone Project	20	9,000
11	Interview Preparations	20	5,000
	Total	300	1,20,000

Key Topics

Python programming

- Introduction & Syntaxes
- Variables, Operators, Memory & Input/output
- Data Structures – Numbers, String, List, Tuple, Dictionary & Sets
- Control flow statements – if-elif-else, for loop, while loop, break, continue etc.
- Functions, Recursion & Modules
- File Handling
- Exception handling
- Database connectivity
- Regular expressions

- Object oriented programming
 - Multithreading & Multiprocessing
 - Web scraping, Email sending & Automation
- Bonus Topic:** GUI Programming using Tkinter

Web Technologies

- HTML
- CSS
- JavaScript
- Client-Server Architecture
- Bootstrap
- Materialize CSS

Databases & ORMs

- Sqlite3
- MySQL
- PostgreSQL
- MongoDB
- Redis
- Django ORM
- SQLAlchemy

JavaScript Libraries – React JS

- Skeleton App
- Introducing JSX
- Rendering Elements
- Components and Props
- State and Lifecycle
- Handling Events
- Conditional Rendering
- Lists and Keys
- Forms
- Lifting State Up
- Composition vs Inheritance
- Thinking In React
- React Hooks

Web frameworks – Django & Flask

- HTTP Requests & Responses
- Skeleton App
- Models, Model fields and relationships
- Admin & ModelAdmin
- Urls & Views
- Templates

- Static files
- Authentication
- Session & Cookies
- Common web application tools

API frameworks - Django Rest Frameworks & Flask Restplus

- Introduction to Rest API
- Working with JSON files
- Serialization
- Routers
- Class based views
- API Permissions
- API request methods
- Understanding response objects and headers
- Using CURL
- Using Request module
- Creating API endpoints in Django web application

Cloud Services

- AWS – EC2, Elastic Search
- Microsoft Azure
- Heroku

DevOps Tool

- Git
- Jenkins
- Docker

Data Analytics

- Numpy
- Pandas
- Matplotlib
- Seaborn

Capstone Project

- Ecommerce Web Application

Interview Preparations

- Resume Building, LinkedIn & Github credits
- Frequently asked Q&A
- Mock tests