

Web Development in Python with Django Syllabus

Duration: 60 Hours

1. Introduction to programming

- What is program
- What is programming
- Why is programming
- What is programming Language
- Classification of Programming Languages

2. Introduction to Python

- What is Python
- Features of Python
- Installation of Python
- Using the Python Interpreter IDLE
- Salient Features of Python
- Basic Syntax of Python

3. Using Variables in Python

- Data Types and Variables
- Numeric Data Types OUR FUTURE BEGINS WITH US
- Dictionary Data Type

4. Basics of Programming in Python

- Understanding Programs and Programming
- Using Conditionals
- Using Loops
- Using Functions
- Using Functions from Built-in Modules
- Constructing Modules and Packages

5. Principles of Object-oriented Programming (OOP)

- Overview of OOP
- Declaring Class and Creating Objects
- Understanding Inheritance
- Using Magic Methods



6. Connecting to SQLite Database

- Introduction to SQL
- Creating a SQLite database
- Accessing SQLite Database through Python

7. Framework of Python

- Introduction to Django
- Installation of Django
- Functionalities of Django
- Features of Django
- Django Template Language
- Utilities of Templates
- Creating Template Objects
- Tags, Variables and Filters
- Rendering Templates
- Template Inheritance
- Form Handling
- Form validation and Error Messages
- Form Display

8. Models and Dynamic Webpages

- Django Models
- Model Fields
- Model Inheritance OUR FUTURE BEGINS WITH US
- CRUD on DB
- Primary keys and the Model
- Dynamic Webpages
- Toggle Hidden Content
- jQuery and AJAX integration

9. Complementary

- HTML
- CSS
- JS Basic

10.Major Project Work

11. Placement Assistance Sessions

- Mock Interviews
- GDs
- Preplacement Talks
- Industry Exposer Sessions