

Python/Django - Syllabus

Introduction to Python

- History
- Features
- Installation
- Operators
- Variables

Introduction to Datatypes

- Python numbers
- Python strings
- Python lists
- Python tuples
- Python dictionary

Programming Concepts

- If statements
- If else
- Else if statements
- While loop
- For loop

Functions and Modules

- Defining a function
- Calling a function
- Function arguments
- Importing modules
- Built in modules

Object Oriented Programming

- Class and objects
- Super and sub class
- Constructor
- Inheritance

Files and Exception Handling

- Opening and closing a file
- Reading and writing on a file
- File methods
- Exception handling

Python/Django - Syllabus

Raising an exception

GUI Development using Tkinter

Introduction to Tkinter

Tkinter programming

Tkinter widgets

Standard attributes

Geometry management

Basic Widgets and Advanced Widgets

Using radio buttons

Using check box

Spin box

Scroll bar and slider

List widget

Display system clock time

Working with calendar

Combo box

Displaying table

Displaying graphics

OS Module and Network Programming

Environment

Directory Commands

Miscellaneous OS Calls and Walking through Directories

Network programming and Introduction

SQL and SQL Constrains

Introduction

DDL commands

DML commands

SQL statements ,operators, clauses

Aggregate functions

Database Handling with SQL Lite

Database maintenance through console based programs

Database maintenance through GUI based program

MongoDb with Python

Python/Django - Syllabus

MongoDb installation
MongoDb Compass
MongoDb Data Modeling
MongoDb Connectivity
MongoDb CRUD operations

Firestore Realtime Database

Fire base Installation
Environment setup
Introduction to JSON
CRUD operations

Introduction to Web designing

HTML
CSS

Introduction to Client Side Scripting

Java script
jQuery
Bootstrap

Basic Study of Django Framework

What is Django?
Where did it come from?
What does Django code look like?
Installing Django

Django Templates and Form Details

What is Django?
Where did it come from?
What does Django code look like?
Installing Django

Django Admin Customization

Where did it come from?
Registering models
Creating a super user
Logging in and using the site
Advanced configuration

Python/Django - Syllabus

Rest APIs and User Authentication

Project setup

Views

URLs

Settings

Testing our API

Enabling authentication

Creating users and groups

Setting up your authentication views

Permissions

Deploying Django Framework

Production environment

Choosing a hosting provider

Getting your website ready to publish

Installing local library

Python FLASK Framework

Introduction

What Is Flask

Why Use Flask?

Installing Flask

Setting Up Our Development Environment

Locally Using our Operating System

Introduction to Virtual ENV and PIP

Locally Using Docker

Using a Cloud-Based IDE

The Code Editor

Installing Flask

Our Initial App

Debugging

Routing

Using url_for

The GET method

The POST method

Advanced Python Concepts

[For more details about this course, Click on this link: Python/Django Training](#)