

TechnoMaster

Python/Django

Duration: 60 Hrs (Changeable) | Fees: Individual / Batch

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Syllabus Contd..

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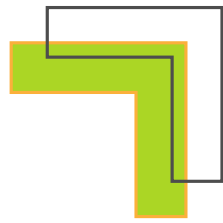
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Syllabus



- * 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

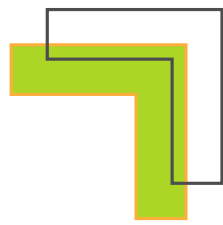
- * Defining a function
- * Calling a function
- * Function arguments

Importing modules



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Syllabus



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
- * 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



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Syllabus

- * Scroll bar and slider
- * List widget
- * Display system clock time
- * Working with calendar
- * Combo box
- * Displaying table
- * Displaying graphics

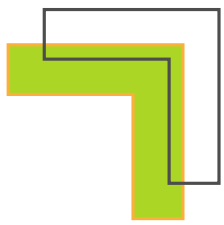
OS Module and Network Programming

- * 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



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- * MongoDB installation
- * MongoDB Compass
- * MongoDB Data Modeling
- * MongoDB Connectivity
- * MongoDB CRUD operations
- * Firebase 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



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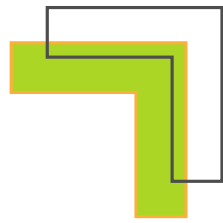
Syllabus

- * 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
- * Rest APIs and User Authentication
- * Project setup
- * Views
- * URLâ€™s
- * Settings
- * Testing our API
- * Enabling authentication
- * Creating users and groups
- * Setting up your authentication views
- * Permissions
- * Deploying Django Framework



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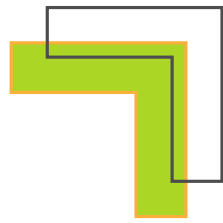


- * Production environment
- * Choosing a hosting provider
- * Getting your website ready to publish
- * Installing local library
- * Python FLASK Framework
- * Introduction
- * What Is Flask
- * Why Use Flask?
- * Installing Flask
- * Setting Up Our Development Environment
- * Locally Using our Operating 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



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* Advanced Python Concepts