TechnoMaster

Python/Django

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

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Syllabus Contd..

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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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- 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 Framewok

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- Production environment
- Choosing a hosting provider
- Getting your website ready to publish
- Installing local library
- Python FLASK Framewok
- 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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Syllabus

* Advanced Python Concepts