# PYTHON & DJANGO

6 Months Program

3 Months E-Learning
3 Months Internship

AVODHA
Education for a Job

## What is Python

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed.

## What is Django

Django is a free and open-source web application framework written in Python. It is used for rapid web development and clean, pragmatic design. It is built by experienced developers to make repetitive tasks easier, so we can focus on writing apps instead of reinventing the wheel.

## Tutor Details

**Shiyas**

Mr. Shiyas has 5+ years of expertise with Python and Django to analyze, design, develop, and implement diverse web, stand-alone, client-server applications. He has contributed to the Python project in a range of ways. From Linux internals to large-scale, distributed applications, he has experience developing software solutions at all levels of the software stack. He is also a private Python tutor, a paid speaker, and an active contributor to open-source projects. He was in charge of both basic and advanced Django framework corporate training.

## Course Structure

- 3 months E-Learning
- 3 months Internship
- Live Session for Doubt Clearance (Monday to Friday 10 AM to 7 PM)
- 100% Placement Assistance

## Certification

AVODHA Course Completon Certficate

Certified Python Developer (Paid)

## Fees Structure

- Admission Fee : 3,800
- Total Fee : 13,800

Avodha provides Job-oriented courses in an affordable price. The total price of our course is ₹13,800/- ; but to avail the course, he/she has to pay only ₹3,800/- as an admission fee & rest of the amount ₹10,000/- has to be paid only after getting the job related to the course he/she joined at Avodha, ie., The first installment ₹5,000/- has to pay on the first day of his/her employment in a job wherein they are placed through Avodha. And the second payment of ₹5,000/- needs to be done once the student completes 30 days of employment in the Job they have been placed via Avodha.

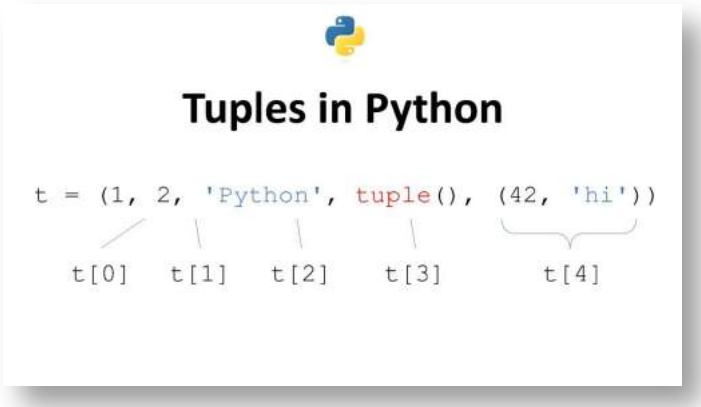
# COURSE CURRICULUM

## INDRODUCTION

- Installation of Python
- Basic Python Concepts
- Notes & Summary

## CONTROL STRUCTURES IN PYTHON

- If Statement
- List Operations
- List Operations
- Boolean Logic in Python
- Range
- While loop in Python




## FUNCTIONS & MODULES

- In Python Passing Arguments to Functions in Python
- Making Function Return Value in Python
- Exception Handling & File Handling
- Exception Handling
- File Handling

## SOME MORE TYPES IN PYTHON

- Dictionaries
- Dictionary Functions
- Tuple
- List Slicing

## FUNCTIONAL PROGRAMMING IN PYTHON

- Lambdas in Python

## OBJECT ORIENDED PROGRAMMING

- Inheritance
- Multiple Inheritance
- Sets
- Regular Expressions in Python

## CREATE GUI APPS USING TKINTER

- Tkinter Label
- Tkinter Button
- Tkinter Grid
- Tkinter Self Adjacent Widget
- Tkinter Class
- Tkinter Message box
- Tkinter dropdown
- Mysql

## ADDITIONAL SECTION

- MYSQL & PYMYSQL

## DATABASE IN PYTHON USING PYMYSQL

- Pymysql
- Tkinter Database Connection
- Tkinter Registration Form
- Python CRUD
- Movie API

- HTML

**CSS**

- Stylesheet

**BUILDING DATABASE**

- PostgreSQL, MYSQL

**DJANGO**

- Django Installation
- Django App Creation
- Django Basic
- Django Value Passing Using GET Method
- Django Value Passing Using POST Method

- Doubt Clearance
- Django Static Website
- Database Connection & Admin Panel
- Django Fetching Value
- Django Registration
- Django Password Verification
- Django Login & Logout
- Django Project Completion
- Django Id Passing
- Django Url Passing
- Django Bootstrap Section
- Django Base Code
- Django Add, Update Products
- Django Add Image
- Django Product Delete
- Django Design Touch-up

## DJANGO TO DO APP

- Django To Do Model Creation
- Django To Do Project Creation
- Django To Do Task Creation
- Django To Do Style
- Django To Do Delete Task
- Django To Do Date Functionality
- Django To Do Update/Edit
- Django Class Based Generic View

## ECOMMERCE PROJECT

- Template Setup
- Django Creation
- Models Creation
- HTML Updations

- Views For Products
- URL Setup
- Search Option
- Paginator
- Cart Setup
- GitHub
- Hosting
- Logics of Programming
- Tkinter Final
- Fibonacci Series

## API

- Introduction to API
- Building a Basic Rest API
- Creating API End Points
- Add Image Field
- API Authentication

## OPENCV PYTHON

- OpenCV Introduction
- Read & Display Images
- Draw Shapes

- Mouse Event
- Colour Space
- Object Tracking
- Video Tracking
- Django Registration
- Simple Threshold Implementation
- Image Blur Method
- Blur Methods

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