

# Full Stack Web Development with Python in Hindi Tech Neuron

Full Stack Python with Django is specially created to fulfil the standards set by the industry. You may learn a lot about Python, the Django REST framework, Django Models, React, and other topics in this lengthy online interactive course. With the Python Django program, you will also gain proficiency with the web framework while working on practical use cases.

Mode: self-paced Language: English Duration:

What you'll learn: Course Features:

Python basic Course material

List object basics Course resources

String objects On demand recorded videos

Tuples Practical exercises

Functions Quizzes

Memory management Assignments

Oops concepts Course completion certificate

Exception Handling 18 hr live support all seven day

Files Extra doubt clearing as per demand

DATABASE hindi

Web Development using Python on DjangDoubt clearing

React 300+ practice problems

Web API

#### Course Curriculum:

#### 1. Course introduction

course overview and dashboard description

Programming language overview

History of Python

Version History of Python

Installation (tools:vscode, IDLE)

Learning Path through Python

# 2. Python basic

Developing and executing Python program

Python Virtual Machine

Comment, data, variables, types

heap space and namespace

id, keywords, import, module, help

print, input

number system

Conversion functions

Operators - arithmetic, bitwise, comparison and assignment operators, operator?s precedence and associativity

**Decision Control Statements** 

Requirements:

System with Internet Connection

Interest to learn

Dedication

**Pricing:** 

25000 INR

315 USD



Iterative control Statemenets - while loop

transefer control statements- break, continue, pass

for loop

range

# 3. List object basics

list

list methods

List comprehensions

packing unpacking

built-in methods

#### 4. String objects

String object basics

String methods

Splitting and joining strings

String format functions

## 5. Tuples

tuple basics

tuple methods

list vs tuple

#### 6. set

set basics

set comprehensions

set methods

#### 7. dict

dictionary basics

dict methods

dict comprehensions

# 8. Functions

**Function Basics** 

Ways to define a function

function returning None

default arguments

positional vs keyword arguments

variable number of arguments

Recursion

Lambda functions

Iterators

Generator functions

Decorators

Map, reduce, filter functions.

# 9. Memory management



Multithreading

Multiprocessing

# 10. Oops concepts

oops basic concepts.

Main aspects of OOP

**Encapsulation and Abstraction** 

Classes and Objects

init method

Types of variables

Types of functions

Inheritance

Name conflict issues

Polymorphism

Overriding

Operator Overloading

# 11. Exception Handling

Introduction to Exceptions

Exceptions handling with try-except

use of else and finally

Defining exception

# 12. Files

Working with files

Reading and writing files

Buffered read and write

Other file methods.

Renaming a file

Removing a file

# 13. DATABASE

Postgres Basics

#### 14. Project

Core Python + DB

Web Project-1

Web Project-2

# 15. Web Development using Python on Django

Client Server Architecture

HTML

CSS

JS

Introduction to Django

Creating first Django Project

Creating web application



Defining views in an application

Multiple views

Multiple Application

Application level url configuration

Template

Template variables

**Template Tags** 

Template Filters

Custom Template Tags and Filters

**Database Introduction** 

SQLite DB

Models

makemigrations

migrate

Admin app

**CRUD** operations

session tracking

login functionality

#### 16. React

React Essentials

## 17. Web API

What is web API

Difference b/w API and web API

Restful services

**POSTMAN** 

### Instructors:

# 1. Saurabh Shukla

Saurabh Shukla has been educating children with this credo, and he does so for free. MySirG.com, the educator's YouTube channel, features video lessons on programming languages. Saurabh has successfully reached thousands of students around the country by making it his aim to produce subject-related videos on a daily basis.

Email: sshukla\_manit@yahoo.com

youtube: https://www.youtube.com/user/saurabhexponent1

linkedin: https://www.linkedin.com/in/saurabh-shukla-5b73bb6/