**Python-Django-WD-ML Training Content**

Duration : 27 days

Timing : 3hr/day

Day 1:

* Python Introduction and Features
* Python Installation
* Python Basic Program Execution
* DataTypes and Variables

Day 2:

* Input and Output
* Operators
* If Statements , Nested If , Else If, ElIf
* Looping Statements , Break and Continue

Day 3:

* Loops
* Functions & types
* Creating custom modules
* working with builtin modules
* Sys Module
* OS Module

Day 4:

* Math module
* Time Module
* Working with Number & Strings
* String operators
* String function & Methods
* Mutability & Immutability

Day 5:

* Python sequences
* Working with list ,tuple
* Function & Methods
* List operators
* List programs
* Practice task (Search , Sort , Reverse etc)

Day 6:

* Dynamic List
* Introduction to Dictionary
* Working with dictionary
* Operators , functions

Day 7:

* Nested sequences
* Exception Handling
* File Handling

Day 8:

* Python oops
* Oops introduction , features
* Constructor & destructor
* setter & getter

Day 9:

* Encapsulation , Abstraction
* polymorphism
* Inheritance

Day 10:

* Ramdom programs
* Practice session

Day 11:

* Introduction of website,diff b/w website and web application,HTML Introduction,HTML Basic Tags
* HTML Tags img,marquee,anchor,table tag etc
* Html5 New tags audio,video,ins,del etc

Day 12:

* DHTML Controls,input tag,attributes required,placeholder,checked and global attributes
* Design Complete Registration Form with required attributes,
* CSS Introduction,Need of CSS,Inline CSS

Day 13:

* Internal CSS with selector tag and Id
* Class Selector & Nested Selector,CSS Box Model
* Css3 Properties- Pseudo Classes,z index,flex box,animation

Day 14:

* CSS Complete Template
* CSS Template Customization
* JavaScript Introduction,difference between BOM and DOM,alert,basic programs in Js

Day 15:

* DOM Write() ,Operators in Js(Arithmetic and Assignment) with conditional control structure
* Confirm box,Prompt(),Document objects properties
* Functions
* JS programs

Day 16:

* Function & events in Js
* Events : onkeyup , onclick , onfocus , onblur etc
* JS events task

Day 17:

* Js- getelementbyid,Basic Validation
* Regular Expression Introduction, apply on textbox,email,password etc.
* Registration Form with all Validations,External Js

Day 18:

* Introduction MySQL database
* SQL classification , DDL DML & DCL commands
* Working with queries
* SQL commands CRUD commands
* SQL Clauses

Day 19:

* Django Introduction and Setup
* Django Project Description
* Working flow
* Environment setup

Day 20:

* Django Views and URLs
* Django Templates
* DTL (Django Template Language)
* Template and Render with Views
* DTL, Template Rendering with Data (List, Tuple , Dictionary and other Objects)

Day 21:

* User Input
* Working with forms
* DataBase Connectivity
* CRUD operation
* Insert , Select , Update & Delete

Day 22:

* Template Integration in Django
* Working with themes
* Project Layout generation
* Template Inheritance

Day 23,24,25:

* Web Application Using (UI+Django+MySQL)
* Theme & Template Designing & Integration
* Responsive Web Application Development
* Register , login , file uploading
* User authentication using session
* Auto-Email Sending
* Payment Gateway Integration

Day 26-27:

* Student doubt solving
* Student project checks & testing