** Duration:- 60hrs**

**Module 1: Introduction 2 Hrs**

Limitations of HTML 4

Introduction and Advantages of HTML 5

First HTML5 Document

Overview of New Features of HTML5

**Module 2: Basic HTML 2 Hrs**

Basic HTML Tags

Hyperlink

Images, Listing, Table, Paragraph

**Module 3: HTML5 Semantic Elements and Tags 3 Hrs**

Header

Navigation

Section

Articles

Footer

Aside

Geolocation

Video / Audio

Input Types

Form Elements

Form Attributes

**Module 4: CSS 3 3 Hrs**

Basic use of CSS

Formatting the page with CSS

Understanding DIV

Creating menu with CSS

Animation with CSS

Borders

Backgrounds

Text Effects

Fonts

Transitions

Animations

Multiple Columns

**Module 5: JavaScript 3 Hrs**

Introduction

Syntax

Comments

Variables

Datatypes

Operator

Conditional Statements

Loops

Events

User Define Function

****

**Module 7: Bootstrap Basics 3 Hrs**

Download latest version of Bootstrap

Install and configure

Understanding Bootstrap Grid System

Creating rows

Creating columns

Creating cells with the grid system

Fixed Layout vs. Fluid Layout

Bootstrap Code Lookup

Tables in Bootstrap

Forms in Bootstrap

Bootstrap Buttons

Image Handling in Bootstrap

**Module 8: Advance Bootstrap 3 Hrs**

Alerts Plugin in Bootstrap

Tooltips Plugin in Bootstrap

Tabs Plugin in Bootstrap

Modals Plugin in Bootstrap

Carousel Plugin in Bootstrap

**Module 9: Overview 4 Hrs**

Overview

History of Python

Python Features

Environment Setup

Getting Python installing Python

Setting up PATH

Setting path at Windows

Python Environment Variables

Running Python

**Module 10: Basics Syntax 3 Hrs**

Python Programme

Python Identifiers

Python Keywords

Lines and Indentation

Python Comments in Python

**Module 11: Data Types 4 Hrs**

Assigning Values to Variables

Multiple Assignment

Standard Data Types

Python Numbers

Python Strings

Python Lists

Data Type Conversion

****

**Module 12: Operators, Decision Making and Loop 2 Hrs**

Different types of Operator

If…else Statement

elif Statement

For Loop

Break Statement

Continue Statement

**Module 13: Functions 4 Hrs**

Types of Functions

Inbuilt functions

Advantages of user define function

Different types of user define functions

Module 6: FILES I/O

Using input function taking data from command line

Opening and Closing Files

Performing Reading

Writing and Appending operation using Python

**Module 14: Class and Object 4 Hrs**

Overview of Object Oriented Programming

Creating Class

Built-in Class Attributes

Inheritance

Method Overriding, Data Hiding

**Module 15: Exceptions 3 Hrs**

What is Exception?

Handling an Exception

The except Clause with No Exceptions

The try-finally Clause

**Module 16: CGI Programming 4 Hrs**

What is CGI?

Web Browsing

CGI Architecture

Web Server Support and Configuration

First CGI Program

HTTP Header

CGI Environment Variables

GET and POST Methods

Passing Information using GET method

Passing Drop Down Box Data to CGI Program

DATABASE ACCESS, What is pymysql?

How do I Install pymysql?

Database Connection

Creating Database Table

INSERT, READ and Update Operation, DELETE Operation, Search Operation

Disconnecting Database

Cookies in CGI

**Module 17: Django Web Framework 4 Hrs**

What is a Framework

Introduction to Django

Django – Design Philosophies

History of Django

Why Django and Features

Environment setup

Web Server

**Module 18: MVC Pattern 4 Hrs**

MVC Architecture vs MVT Architecture

Django MVC – MVT Pattern

**Module 19: Getting Started with Django 3 Hrs**

Creating the first Project

The Project Structure

Running the server

Solving the issues and Migrations

Database Setup

Setting Up Your Project

**Module 20: Create an Application 4 Hrs**

What Django Follows

Structure of django framework

Model Layer

What are models,

Model fields

Querysets

**Module 21: Django – Admin Interface 4 Hrs**

Starting the Admin Interface

Migrations

**Module 22: Views Layer 3 Hrs**

Simple View

Basic view(displaying hello world)

Functional views

class based views

**Module 23: Django – URL Mapping 3 Hrs**

Organizing Your URLs

Role of urls in djnago

Working urls

Forms

Sending Parameters to Views

Templates layer

The Render Function

**Module 24: Django Template Language 4 Hrs**

Role of template layer in django

Filters,Tags, Tag if, Tag for, Block and Extend Tags, Comment Tag

Usage of templates

Extending base template

**Module 25: Django – Models 3 Hrs**

Creating a Model

Manipulating Data (CRUD)

Linking Models

Django – Page Redirection

**Module 26: Form Processing 3 Hrs**

Using Form in a View

Usage of forms

Crud operations using forms

Crispy forms in django

**Module 27: File Uploading 2 Hrs**

Uploading an Image

Django – Apache Setup

**Module 28: Cookies Handling 2 Hrs**

Django – Sessions

Django – Comments

User authentication

**Module 29: Django Admin 2 Hrs**

Creating Super User

Using admin in Django

Adding models to admin

Adding model objects using admin

Displaying in cmd using querysets

**Module 30: Working with Static files 1 Hrs**

Loading css files into templates

Loading js files into templates

Uploading image using models

**Module 31: Project Work & Documentation 5 Hrs**