Web Development using Python Django

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Python is an interpreted, high-level and general-purpose programming language. The design philosophy of Python emphasizes code readability with its notable use of significant indentation. Its language constructs and object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects. Django is a high-level Python web framework that enables the rapid development of secure and maintainable websites. Built by experienced developers, Django takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel.

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Python Django Course

Course Details

Duration	16 weeks
Language	Urdu
Lecture Days	Wed, Fri

Batch Details

Batch Code	1240321
Start Date	24 Mar 2021
End Date	09 Jul 2021

Pricing

Course Cost	PKR 15000/-

Installment Cost	PKR 16500/-
Max Installments	3

Course Content

Introduction [Wed 6:00 PM - 7:00 PM]   −

> Introduction
> Orientation
> Motivation: Why Become a Python Developer

Structure of Python [Fri 6:00 PM - 7:00 PM]   −

> Setup
> Syntax

Basics of Python [Wed 6:00 PM - 7:00 PM]   −

> Variables
> Data types (Strings, Num, Dates, Bool)

Statements and Loops [Fri 6:00 PM - 7:00 PM]   −

> if-else statement
> Loops

Concepts of Python [Wed 6:00 PM - 7:00 PM]   −

> Lists
> Dictionaries

Concepts of Python (Cont.) [Fri 6:00 PM - 7:00 PM]   −

> Methods
> Functional Programming

Concepts of Python (Cont.) [Wed 6:00 PM - 7:00 PM]   −

> Classes
> Objects
> Inheritance

Quiz [Fri 6:00 PM - 7:00 PM]   −

> Quiz

Hypertext Markup Language (HTML) [Wed 6:00 PM - 7:00 PM] −

- Tags
- Text
- Attributes
- Text Links
- Comments
- Lists
- Images
- Image Links
- Tables
- Forms
- Inputs
- Text Fields
- Password
- Reset
- Submit
- Checkboxes
- Radio Button

HTML (Cont.) [Fri 6:00 PM - 7:00 PM] −

- Select Tag
- Hidden Fields
- Upload
- Textareas
- Body
- Style
- Div
- Scripts
- Formatting Tags
- Bold
- Paragraphs
- Headings
- Link Breaks
- Horizontal Rule
- Email
- Italic
- Code

Cascading Style Sheets (CSS) [Wed 6:00 PM - 7:00 PM] −

- CSS Syntax
- CSS Id & Class
- CSS How
- Styling Backgrounds
- Styling Text
- Styling Fonts
- Styling Links
- Styling Lists

Styling Tables
CSS Border

CSS (Cont.) [Fri 6:00 PM - 7:00 PM]   −

CSS Outline
CSS Margin
CSS Pading
CSS Display
CSS Positioning
CSS Floating
CSS ALign
CSS Pseudo-class
CSS Pseudo-element
CSS Attribute Selectors

BootStrap [Wed 6:00 PM - 7:00 PM]   −

Introduction to Bootstrap
Bootstrap Basics
Bootstrap Grids
Bootstrap CSS
Bootstrap JS (JavaScript)
Bootstrap Typography
Bootstrap Colors
Bootstrap Tables
bootstrap Images
Bootstrap Jumbotron
Bootstrap Alerts
Bootstrap Buttons
Bootstrap Button Groups

BootStrap (Cont.) [Fri 6:00 PM - 7:00 PM]   −

Bootstrap Badges
Bootstrap List Groups
Bootstrap Cards
Bootstrap Dropdowns
Bootstrap Collapse
Bootstrap Navs
Bootstrap Navbar
Bootstrap Forms
Bootstrap Inputs
Bootstrap Input Groups
Bootstrap Custom Forms
Bootstrap Carousel
Bootstrap Modal

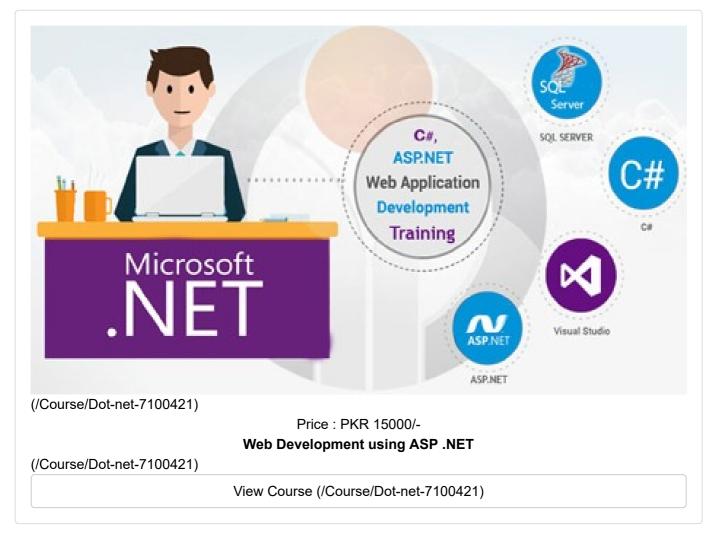## JavaScript [Wed 6:00 PM - 7:00 PM]   −

Introduction to JavaScript

    Basic Program Structure
    Function Fundamentals
    Javascript Arrays
    Javascript Comparisons
    Javascript Conditions
    Javascript Loops
    Javascript Functions
    Javascript Objects

JavaScript (Cont.) [Fri 6:00 PM - 7:00 PM]   −

    Introduction to JQuery
    JQuery Syntax
    JQuery Selectors
    JQuery Events
    JQuery HTML
    JQuery AJAX
    JQuery Misc.

JavaScript (Cont.) [Wed 6:00 PM - 7:00 PM]   −

    What is DOM?
    Elements Nodes
    Getting Element Nodes
    Changing DOM Content
    Creating DOM Elements
    Traversing the DOM
    Working with the DOM
    Listening to DOM Events

Project using Pure HTML, CSS, Bootstrap & jQuery [Fri 6:00 PM - 7:00 PM]   −

    Project using Pure HTML, CSS, Bootstrap & jQuery

Introduction to Django [Wed 6:00 PM - 7:00 PM]   −

    Introduction

Concepts of Django [Fri 6:00 PM - 7:00 PM]   −

    Concepts of Django

Django Model View Template (MVT) [Wed 6:00 PM - 7:00 PM]   −

    Django MVT Breakdown
    Model
    View

Django MVT (Cont.) [Fri 6:00 PM - 7:00 PM]   −

Template

Databases [Wed 6:00 PM - 7:00 PM]   ▬

Databases

Relations [Fri 6:00 PM - 7:00 PM]   ▬

One-One
One-Many
Many-Many

Django Auth [Wed 6:00 PM - 7:00 PM]   ▬

Django Auth

Django Admin [Fri 6:00 PM - 7:00 PM]   ▬

Django Admin

Building a full CRUD Web Application [Wed 6:00 PM - 7:00 PM]   ▬

Frontend using HTML, CSS, Bootstrap & JQuery
Backend using Django with AUthentication and Database

Building a full CRUD Web Application (Cont.) [Fri 6:00 PM - 7:00 PM]   ▬

Frontend using HTML, CSS, Bootstrap & JQuery
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Building a full CRUD Web Application (Cont.) [Wed 6:00 PM - 7:00 PM]   ▬

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Web App Assignment [Wed 6:00 PM - 7:00 PM]   ▬

Web App Assignment

Web App Assignment (Cont.) [Fri 6:00 PM - 7:00 PM]   ▬

Web App Assignment (Cont.)

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