**FULL STACK WEB DEVELOPMENT**

**COURSE – 2 MONTHS**

**In this course we will learn**

* **HTML**
* **CSS**
* **CSS 3**
* **BOOTSTRAP 5**
* **JAVA SCRIPT**
* **PYTHON**
* **PYTHON DJANGO**

 **FRONT-END 1 (Month)**

**HTML5:**

**In this module, you’ll learn:**

* Html Introduction
* Html Editors
* Html Basic
* HTML Tags
* Html Elements
* Html Attributes
* Html Headings
* Html Paragraphs
* Html Styles
* Html Formatting
* Html Quotation
* Html Comments
* Html Colors
* Html links
* Html images
* Html Video and Audio
* Html Tables
* Html Lists
* Html Blocks
* Html Classes
* Html Layout
* Html Iframes
* Html Head
* Html Forms
* Html Input Types and Input Attributes

* **CSS:**
* **In this module, you’ll learn:**
* Introduction
* CSS Syntax
* CSS Types
* CSS Colors
* CSS Backgrounds
* CSS Borders
* CSS Margin
* CSS Padding
* CSS Selectors
* CSS Height/Width
* CSS Comment
* CSS Text
* CSS Fonts
* CSS Links
* CSS Lists
* CSS Tables
* CSS Box Model
* CSS Outline & CSS Display
* CSS Max-width
* CSS Position
* CSS Float
* CSS Inline-block
* CSS Align
* CSS Combinators
* CSS Pseudo class
* CSS Navigation Bar
* CSS Dropdown
* CSS Tooltips
* CSS Image Gallery
* CSS Image Opacity
* CSS Forms

* **CSS 3:**
* CSS3 Introduction
* CSS3 Rounded Corners
* CSS3 Gradients
* CSS3 Shadows
* CSS3 Text
* CSS3 Fonts
* CSS3 2D Transforms
* CSS3 3D Transforms
* CSS3 Animations
* CSS3 Buttons
* CSS3 Pagination
* CSS3 User Interface
* CSS3 Media Queries

**Bootstrap5:**

**In this module, you’ll learn:**

* Introduction
* Get Started
* Grid System  Typography
* Tables
* Images
* Jumbotron
* Accordion
* Alerts
* Badge
* Breadcrumb
* Buttons
* Button group
* Card
* Carousel
* Close button
* Collapse
* Dropdowns
* List group
* Modal  Tooltip
* Navs & tabs
* Navbar
* Pagination
* Popover
* Forms
* **Java script:**
* **In this module, you’ll learn:**
* Introduction
* Syntax
* Statments
* Comments
* Variables
* Data Type  Operators
* Strings
* Numbers
* Arrays
* Loops and Iteration
* Functions and Keywords
* Switch
* Break
* Forms Validation
* Objects Definitions
* Object Prototypes
* JS HTML DOM
* DOM Elements
* DOM HTML
* DOM CSS
* DOM Events

 **BACKEND 1 (Month)**

# PYTHON Django

Data Types, Variables:

Primitive types; Characters & Strings; Boolean; Working with variables and its scope; Type conversion and casting.

Operators and Expressions:

Introduction of operators; Arithmetic operators; Relational operators; Assignment operator; Logical operators; Increment and decrement operators; More in operators.

Decision Making:

If statement; If - else statement; If- elif - else statement; Nested if - else; Operators and Expressions:

Introduction of operators; Arithmetic operators; Relational operators; Assignment operator; Logical operators; Increment and decrement operators; More in operators.

Using Loops:

The while, while-else; do-while and the for loop; Jump statements: break, continue; Nesting loops.

Data Structures:

Lists. Tuples. Dictionary.

Using Built-in modules and functions for strings, maths and dates.

Object-Oriented Programming (OOP) principles.

Using Modules:

Creating and using Functions.

Creating a Module in class; Calling a Module; Returning value from a Module; Adding a Method that takes parameters;

Introduction to Classes and Objects:

Creating a Class; Creating an Object; Using an Object; Adding Instance variables; Controlling accessibility; Naming conventions for class members. Inner Classes.

Class Constructors; Parameterized Constructors.

Inheritance. Overload.

Exception Handling:

Fundamentals of exception handling; Exception types; Using try and except.

Files, streams:

Open, Traverse, Read and Create Files: Csv, txt and Json Files.

# Django

* Introduction to Django and its advantages
* Setting up development Environment
* Creating the project
* Creating the application
* Registering application
* URL mapper
* Database migrations
* Models o Using models o Model management o Registering models
* Django admin site
* Creating a super user
* Configuring different views
* Defining the resource URLs
* Creating pages
* Designing views
* Designing templates
* Generic list and detail views
* Sessions framework o User authentication and permissions o Creating users and groups
* Setting up your authentication views

Login template o Logout template o Password reset templates Testing against authenticated users

Permissions

* Working with forms
* Django form handling process Model Forms
* Editing views
* Django web application security

Regards: Usama jutt