

BOOSTMYSITES

FULL STACK WEB DEVELOPMENT

The course is covered in 3 modules

1. Front end development (JavaScript, HTML, CSS)
2. Middleware (MongoDB)
3. Back-end development (Python programming)

Detailed syllabus is as given below

HTML

1. Introduction
 - 1.1. What is HTML
2. HTML
 - 2.1. Role of HTML
3. Formatting text
 - 3.1. The syntax of HTML elements
 - 3.2. Paragraphs
 - 3.3. Headlines
 - 3.4. Bold and italics
 - 3.5. Lists
 - 3.6. Quotes
 - 3.7. Date & time
 - 3.8. Code, pre, and br
 - 3.9. Superscripts, subscripts, and small text
4. Understanding the Power of HTML
 - 4.1. Debugging HTML
 - 4.2. HTML attributes
 - 4.3. ARIA roles
 - 4.4. Formatting HTML
 - 4.5. Weird characters
5. Linking and Navigation

- 5.1. Links
- 5.2. URL paths
- 5.3. Navigations

6. Images and Graphics

- 6.1. Images
- 6.2. Image format
- 6.3. Responsive images
- 6.4. Responsive width
- 6.5. Responsive pictures
- 6.6. Figure and figcation

- 6.7. Media
 - 6.7.1. Audio
 - 6.7.2. Video
 - 6.7.3. Captions & Subtitle
 - 6.7.4. Embedding other media through iframes

- 6.8. Putting it all together
 - 6.8.1. HTML page
 - 6.8.2. Document head
 - 6.8.3. Structing content

- 6.9. Forms and interacting elements
 - 6.9.1. HTML forms basics
 - 6.9.2. More on forms
- 6.10. Structing tabular data
 - 6.10.1. When to use tables
 - 6.10.2. Building table rows
- 6.11. Wrap up
 - 6.11.1. HTML & CSS
 - 6.11.2. Browser developer tools
 - 6.11.3. Referencing CSS
 - 6.11.4. Overview & setup

CSS

- 1. Optimising images & Retina display
- 2. Relative paths in project

3. Absolute path

4. Core concepts

5. CSS specification and W3C

6. CSS syntax and terminology

7. CSS values and units

8. Color and property value

9. Type and universal selector

10. Class & ID selector

11. Class & ID selector exercise

12. Descendant selectors

13. Grouping selectors

14. Inheritance and specificity

15. The cascade and its importance

16. Adding colors with project

17. Pseudo class selectors and links

18. Styling links with project

19. BOX model

19.1. Introduction

19.2. Inline, block and display

19.3. BOX model properties

19.4. Syntax and usage

19.5. Debugging

19.6. Padding, margin and border

19.7. Margin and layouts

19.8. Adding content wrapper with project example

19.9. Margin and padding in project example

20. Typography

20.1. Typography for the web

20.2. Changing the font-family

20.3. Font-weight and font-style

20.4. Web fonts with @font-face

20.5. Web fonts with Google Fonts

20.6. Project: Google Fonts

20.7. The font-size property

20.8. Font shorthand

20.9. Text-decoration, text-align, and line-height

20.10. Project: Typography styles

21.Layouts: Float and Position

- 21.1. Introduction to float
- 21.2. The float and clear properties
- 21.3. Float and collapsed container
- 21.4. Layouts and the box model
- 21.5. Project: Float and box model fix
- 21.6. Position
- 21.7. Position and z-index
- 21.8. Layouts: flexbox and grid

22.Layouts: Float and Position

- 22.1. Introduction to float
- 22.2. The float and clear properties
- 22.3. Float and collapsed container
- 22.4. Layouts and the box model
- 22.5. Project: Float and box model fix
- 22.6. Position
- 22.7. Position and z-index
- 22.8. Advanced selector
- 22.9. Layouts: Float and Position
- 22.10. Responsive Layouts Wrap Up

Javascript

- 1. JavaScript Introduction
- 2. Basics of JavaScript
- 3. Coding First Line of JavaScript
- 4. Brief Overview of JS, Websites & Web Technologies
- 5. Html, CSS & JavaScript Overview
- 6. Deep Dive in JavaScript
- 7. Downloading & Installing VS Code IDE
- 8. Writing JS in VS Code
- 9. Getting Started with JavaScript
- 10. JavaScript Console API
- 11. Different ways to write JavaScript
- 12. Variables in JavaScript

13. Comments in JavaScript
14. Data Types in JavaScript
15. Operators in JavaScript
16. Functions in JavaScript
17. Conditional Statements in JavaScript
18. Loops in JavaScript
19. Break and Continue Statements
20. Array Methods
21. String Methods
22. Dates in JS
23. JavaScript DOM Manipulation
24. JavaScript Events
25. JavaScript setTimeout and setInterval
26. Local Storage in JavaScript
27. About JSON
28. JavaScript Versions
29. Project – 1 (JavaScript Clock)
30. Project – 2 (An Amazing JavaScript To-do List)
31. Wrap Up

PYTHON

CORE PYTHON:

1. Basics
 - 1.1 Installation
 - 1.2 Environment Setting
 - 1.3 SDK for Code Execution
 - 1.4 Python Pros and Cons
 - 1.5 Advantages of Python
2. Data types
 - 2.1 Mutable and Immutable Categories
 - 2.2 Data Type Representation
3. Conditional statements
 - 3.1 if else if and else
 - 3.2 while statement

4. Loops and control statements
 - 4.1 iter_and_____next
 - 4.2 break and continue statement
 - 4.3 enumerate
 - 4.4 range
 - 4.5 else in for loop

5. Strings
 - 5.1 Inbuilt Function Manipulation

6. List
 - 6.1 Inbuilt Function Manipulation

7. Tuples
 - 7.1 Inbuilt Function Manipulation

8. Dictionaries
 - 8.1 Inbuilt Function Manipulation

9. Functions
 - 9.1 Types of Functions
 - 9.2 return statement
 - 9.3 Function Scoping
 - 9.4 Execution of Nested Function

10. Exception handling
 - 10.1 Types of Exception and Exception Base class
 - 10.2 Types of except block
 - 10.3 optimized Exception Execution
 - 10.4 raise method
 - 10.5 “else” and “finally”
 - 10.6 user Defined Exception

Advanced Python:

11. OOP concepts

- 11.1 document string
 - 11.2 Inheritance and Types
 - 11.3 Data Hiding (Access Specifier)
 - 11.4 Decorators
 - 11.5 Polymorphism
 - 11.6 Method Resolution Order
12. Regular expression
- 12.1 match and search method
 - 12.2 flags (re.I and re.M)
 - 12.3 findall method
 - 12.4 sub and split method
 - 12.5 detailed explanation on literals and anchor symbols
13. Database
- 1. SQLite3 Execution
 - 2. Basic of Tkinter implementation
 - 3. Code with Exception
 - 4. Basics of ORM implementation
14. Networking
- 14.1 Socket Basics
 - 14.2 Client and Server Message Sharing Code
 - 14.3 Paramiko and Netmiko Basics
15. Multi-threading
- 15.1 Multithreading Basics
 - 15.2 Difference between Multithreading and Multiprocessing
 - 15.3 Concurrency and Parallel Execution Thread
16. File Operation (txt file)
- 16.1 Context Manager
 - 16.2 Basic File Operation (read, write, append)
 - 16.3 tell() and seek() method
17. Date Time Manipulation
- 17.1 import datetime and time
 - 17.2 Change time format
 - 17.3 Adding Hours, minutes and Seconds

18. Import and Packages

- 18.1 Path Reference
- 18.2 Optimized Code Execution
- 18.3 Circular Import
- 18.4 `name_and__` `main_explanation`

19. Mongo DB

- 19.1 Introduction
- 19.2 Data Modelling
- 19.3 Data Types
- 19.4 DB Operation – 1
- 19.5 DB Operation – 2
- 19.6 Modelling Relationship
- 19.7 PyMongo

20. Flask

- 20.1 API Introduction
- 20.1 Hosting a website and server concepts
- 20.3 Difference between Django and Flask
- 20.4 Input Files and Output Files (JSON)
- 20.5 Flask Running with Example
- 20.6 Tools for Testing (PostMan or Insomania)

21. Django

- 21.1 Django Essentials
- 21.2 API Creation
- 21.3 IP and PORT Change
- 21.4 Admin Page Accessing
- 21.5 Rendering HTML internally and Externally