

# Training Syllabus (Python)

Lecture wise

## HTML & CSS

L.N.	Content	Hours
1	1) Introduction of Web pages 2) Introduction of Websites 3) Introduction of Web Browsers 4) Introduction of HTML <ul style="list-style-type: none"> <li>a. What is Hypertext?</li> <li>b. What is Markup language</li> </ul> 5) History of HTML 6) How to use HTML to create web pages? 7) What is tag? 8) What is element? 9) HTML tag 10) Head tag <ul style="list-style-type: none"> <li>a. Title tag</li> <li>b. Style tag</li> <li>c. Script tag</li> <li>d. Noscript tag</li> <li>e. Link tag</li> <li>f. Meta tag</li> <li>g. Base tag</li> </ul> 11) Body tag 12) Attributes	2
2	1) Text Editing tags <ul style="list-style-type: none"> <li>a. H1, h2, h3, h4, h5, h6, p, pre, center, br, hr, b, strong, i, em, u, ins, s, strike, del, sup, sub, big, small</li> </ul> 2) Lists <ul style="list-style-type: none"> <li>a. Ordered List (ol, li)</li> <li>b. Unordered list (ul, li)</li> <li>c. Definition list (dl, dt, dd)</li> </ul> 3) Table (table, tr, th, td, thead, tbody, tfoot) 4) Marquee (marquee) 5) Image (img) 6) Hyperlink (a)	2

3	1) Form <ul style="list-style-type: none"> <li>a. input (type=text, number, date, email, password, url, range, button, submit, reset, radio, checkbox)</li> <li>b. textarea</li> <li>c. label</li> <li>d. fieldset</li> <li>e. legend</li> <li>f. select</li> <li>g. option</li> <li>h. optgroup</li> <li>i. button</li> <li>j. datalist</li> </ul>	2
4	1) div 2) span 3) iframe 4) video 5) audio	2
5	1) Introduction of CSS 2) Selectors 3) Properties & values 4) Text Styling Properties <ul style="list-style-type: none"> <li>a. Font-family</li> <li>b. Font-size</li> <li>c. Font-weight</li> <li>d. Text-decoration</li> <li>e. Text-transform</li> <li>f. Color</li> <li>g. Line-height</li> <li>h. Word-spacing</li> <li>i. Text-shadow</li> </ul> 5) Text-align 6) Box Model Properties <ul style="list-style-type: none"> <li>a. Width</li> <li>b. Height</li> <li>c. Padding</li> <li>d. Margin</li> <li>e. Border</li> <li>f. Box-shadow</li> <li>g. Border-radius</li> <li>h. Float</li> <li>i. Outline</li> </ul>	2

6	1) Background <ul style="list-style-type: none"> <li>a. Background-color</li> <li>b. Background-image</li> <li>c. Background-repeat</li> <li>d. Background-size</li> <li>e. Background-position</li> <li>f. Background-attachment</li> <li>g. Background (rbga)</li> </ul> 2) List (list-style-type, list-style-image) 3) Table (border, border-collapse) 4) Position 5) Z-index 6) opacity	2
7	1) Pseudo-classes <ul style="list-style-type: none"> <li>a. Hover</li> <li>b. Focus</li> <li>c. Active</li> <li>d. Visited</li> <li>e. Link</li> <li>f. Disabled</li> <li>g. Enabled</li> <li>h. First-child</li> <li>i. Last-child</li> <li>j. Nth-child (odd,even,2n+1,1)</li> </ul> 2) Designing a simple menu 3) Designing a menu have sub menu	2

## Fundamentals of 'Python'

L.N.	Content	Hours
8	1) Introduction of Python 2) Overview of Python 3) History of Python 4) Features of Python 5) Python Environment Setup 6) Setting Up Path Variable 7) Python Environment Variable 8) Running Python 9) First Program in Python	2

9	<ul style="list-style-type: none"> <li>1) Python Identifiers</li> <li>2) Python Keywords</li> <li>3) Line and Indentations</li> <li>4) Multi-Line Statements</li> <li>5) Comments in Python</li> <li>6) Quotations in Python</li> <li>7) Multiple Statements in Single Line</li> <li>8) Command Line Arguments</li> <li>9) Display Output in various format</li> <li>10) User Input</li> <li>11) Input Parsing</li> </ul>	2
10	<ul style="list-style-type: none"> <li>1) Variable Declarations</li> <li>2) Accessing / Assigning Value to Variables</li> <li>3) Multiple Assignments</li> <li>4) Standard Data Types</li> <li>5) Python String</li> <li>6) Python Operators</li> <li>7) Arithmetic, Logical and Assignment Operators</li> <li>8) Members Operators</li> <li>9) Identity Operators</li> </ul>	2
11	<ul style="list-style-type: none"> <li>1) If Statement</li> <li>2) If...Else Statement</li> <li>3) Nested if Statement</li> <li>4) Elif Statement</li> <li>5) Single Statements</li> <li>6) Looping in Python</li> <li>7) While Loop</li> <li>8) Using Single and Multiple Statements in Loop</li> <li>9) Using Else Statement with loop</li> </ul>	2
12	<ul style="list-style-type: none"> <li>1) For Loop</li> <li>2) Nested Loops</li> <li>3) Loop Control Statements</li> <li>4) Break Statement</li> <li>5) Continue Statement</li> <li>6) Pass Statement</li> <li>7) Python Number and its Operations</li> <li>8) Random Number</li> <li>9) String Functions in Python</li> </ul>	2

13	<ul style="list-style-type: none"> <li>1) List in Python</li> <li>2) List Operations</li> <li>3) List Functions</li> <li>4) Tuple in Python</li> <li>5) Tuple Operations</li> <li>6) Tuple Functions</li> <li>7) Dictionary in Python</li> <li>8) Dictionary Operator</li> <li>9) Dictionary Functions</li> </ul>	2
14	<ul style="list-style-type: none"> <li>1) Date and Time in Python</li> <li>2) Date Time Operations in Python</li> <li>3) Date Time Functions in Python</li> <li>4) Function in Python</li> <li>5) User Define Functions</li> <li>6) Defining a Functions</li> <li>7) Calling a Function</li> </ul>	2
15	<ul style="list-style-type: none"> <li>1) Passing by Reference Versus Passing by Values</li> <li>2) Function Arguments</li> <li>3) Required Arguments</li> <li>4) Keyword Arguments</li> <li>5) Default Arguments</li> <li>6) Variable length Arguments</li> <li>7) The return Statement</li> <li>8) Scope of Variable</li> <li>9) Global vs. Local Variables</li> </ul>	2
16	<ul style="list-style-type: none"> <li>1) Python Modules</li> <li>2) Import module</li> <li>3) From.....import statement</li> <li>4) From.....import * statement</li> <li>5) Locating Modules</li> <li>6) Namespaces and scoping</li> <li>7) Packages in Python</li> <li>8) Exceptions in Python</li> <li>9) Exceptions Handling in Python</li> </ul>	2

17	<ul style="list-style-type: none"> <li>1) OOPs in Python</li> <li>2) Class and object in python</li> <li>3) Creating Class</li> <li>4) Creating Object</li> <li>5) Accessing Attributes</li> <li>6) Destroying objects</li> <li>7) Overriding Methods</li> <li>8) Base Overloading Methods</li> <li>9) Data Hiding</li> </ul>	2
18	<ul style="list-style-type: none"> <li>1) Form Designing</li> <li>2) Form data Handling</li> <li>3) Receiving Form Data</li> <li>4) Form Validation on Server</li> <li>5) Validating Form Data using Python</li> <li>6) Send Form Data using Get Method</li> <li>7) Send Form Data using Post Method</li> </ul>	2
19	<ul style="list-style-type: none"> <li>1) Receiving Radio Button Data</li> <li>2) Passing Form Data Using Checkbox</li> <li>3) Passing Text area data to CGI Program</li> <li>4) Passing Dropdown Data to CGI Program</li> <li>5) Complete Form Data Receiving</li> <li>6) Complete Form Validation on Server Side</li> <li>7) Python HTTP Headers</li> </ul>	2
20	<ul style="list-style-type: none"> <li>1) Python Cookies</li> <li>2) Setting Cookies</li> <li>3) Retrieve Cookies</li> <li>4) File Upload Control in Python</li> <li>5) File Uploading to Server</li> <li>6) Deleting File from Server</li> <li>7) Download File from Server</li> </ul>	2
21	<ul style="list-style-type: none"> <li>1) Establishing Database Connection Object</li> <li>2) Receiving Form Data</li> <li>3) Insert for Data into Database</li> <li>4) Insert Multiple Data</li> <li>5) Fetching Data from Database</li> <li>6) Displaying All Records</li> <li>7) Displaying Single Record</li> </ul>	2
22	<ul style="list-style-type: none"> <li>1) Complete Form Data Insertion into Database</li> <li>2) Uploading Media File on server and Database</li> <li>3) Retrieving Data from Database</li> <li>4) Show Media File from Database</li> <li>5) Create Delete Button</li> <li>6) Perform Delete Operation</li> </ul>	2

23	1) Delete Operation 2) Delete File from Server 3) Delete Single Data 4) Delete multiple Data 5) Create Edit button 6) Perform Edit Operation 7) Display Data into text box after clicking edit	3
24	1) Perform Edit Operation 2) Perform Update Operation 3) Prepare Complete Form 4) Edit, Update, Delete Operation Combination 5) Full Details Displaying with All Required Actions	2
25-30	Project Work	2