**Introduction to Web Technology**

**Objectives: After completing this lesson, you will be able to:**

* Discuss Internet and URL
* Explain the major categories of Internet Services
* Describe the basic components of the website
* List the components required for working of the web
* Explain the steps of how a Web work
* List the advantages of the Website
* List the components of Web Technology

**Lesson Duration:  45 Minutes**

### Basics of HTML

**Objectives: After completing this lesson, you will be able to**

* Explain the Basic Components of HTML document
* Explain the Basic Structure of HTML document
* Discuss the different components of HTML Editors

**Lesson Duration:   65 Minutes**

**HTML Basics Tags and Formatting**

**Objectives: After completing this lesson, students will be able to**

* Create and Format the heading of a Web page
* Apply Horizontal Rules and Paragraph tag to separate the content of a web page
* Change background color and format the text of a web page.
* Use Abbreviation Tag to represent something like a series of letters on a web page
* Insert quoted text in a web page and mention the section of a web page that is quoted from another source
* Insert notifications and reminders in the HTML source code

**Lesson duration:  315 Minutes**

**HTML LINKS and IMAGES**

**Objectives: After completing this lesson, you  will be able to**

* Apply Bookmark link to jump to a specific part of a web page
* Apply the Title Attribute link to provide extra information about an element
* Apply Image Tag to insert an image in a web page
* Use an image as a link on a web page to provide information
* Apply different tags to format an image on a web page

**Lesson duration:  270 Minutes**

**HTML TABLES and LISTS**

**Objectives: After completing this lesson, you  will be able to**

* Create a table on the web page by using <table> tag
* Input data in rows and columns by using <tr> and <td> tags
* Create the Unordered list on the web page by using the <ul> tag
* Create the Ordered list on the web page by using the <ol> tag
* Create the Definition list on the web page by using the <dl>tag

**Lesson Duration:  225 Minutes**

**HTML BLOCK, FILE PATHS and LAYOUT**

**Objectives: After completing this lesson, you will be able to**

* Apply the <div> element to divide a web page into different sections.
* Apply the <ifarme> tag to display a web page within a web page or an inline web page with its various features.
* Identify the location of a file in a folder through the file paths.
* Apply Layout elements to display the content of a web page in multiple columns.

**Lesson duration:   270 Minutes**

**RESPONSIVE HTML and HTML Media**

**Objectives: After completing this lesson, students will be able to**

* Apply the <meta> element to present web pages differently on a variety of devices.
* Apply the <audio> element to embed audio in a web page.
* Apply the <video> element to embed a video in a web page**.**

**Lesson duration:   185 Minutes**

**HTML FORMS**

**Objectives: After completing this lesson, you will be able to:**

* Use different types of Form Elements and their attributes to collect data from a web page.

**Lesson duration:  180 Minutes**

**CSS**

**Introduction to CSS**

**Objectives: After completing this lesson, you will be able to**

* Define CSS with example
* Explain different types of CSS Selectors.
* Describe different CSS style sheets.

**Learning Duration:  155 Minutes**

**CSS Formatting**

**Objectives: After completing this lesson, you will be able to:**

* Explain different CSS colors.
* Apply CSS Background properties to set the background effects for elements.
* Use the CSS Border properties to specify the style, width and color of an element’s border.
* Apply CSS Margin properties to create space around elements, outside of any defined borders.
* Apply CSS Padding properties to create space around elements content, inside of any defined borders.
* Apply CSS Outline properties to make the element stand out.

**Lesson Duration:  255 Minutes**

**CSS TEXT, TABLES, LINKS and LISTS**

**Objectives: After completing this lesson, you will be able to:**

* Apply the CSS Text properties to set different text properties of an HTML element.
* Apply the CSS Font Properties to set the font of an HTML content.
* Apply the CSS Link Properties to create different types of links in a content.
* Use CSS to set different properties of an HTML table.
* Use CSS List to set different properties of an HTML List.

**Lesson Duration:  210 Minutes**

**CSS DISPLAY, NAVIGATION and GRID**

**Objectives: After completing this lesson, you will be able to:**

* Apply Display Properties to specify how an element is displayed.
* Use Position Properties to specify the type of positioning method used for an element.
* Use CSS Navigation Bars to transform HTML menu.
* Apply Grid Layout properties to design web pages.

**Lesson Duration: 205 Minutes**

**CSS Responsive Design, Web Fonts and FLEX BOX**

**Objectives: After completing this lesson, you will be able to:**

* Apply Responsive Web Design to make your web page look good on all devices.
* Use Web Fonts that are not installed on your system to make your web page look good.
* Apply Flexible Box Layout Module to design flexible responsive layout structure without using float or positioning.

**Lesson Duration: 195 Minutes**

### Section 15

**JavaScript**

**Basics of JavaScript and its Syntax**

**Objectives:**

After completing this lesson, you will be able to :

* Explain the Basics of JavaScript
* Explain the syntax of JavaScript.
* Explain the way to Enabling JavaScript in the Browser.

**Lesson Duration:  195 Minutes**

**JavaScript Variables and Operators**

**Objectives:**

After completing this lesson, you will be able to:

* Describe where to write a JavaScript in HTML.
* Describe how to use the JavaScript variable and their types.
* Describe the types of operators and their functions.

**Lesson Duration: 210 Minutes**

**Conditional Statement and its loops**

**Objectives:**

After completing this lesson, you will be able to:

* Describe the use of conditional statements in Javascript.
* Describe the use of loops in the JavaScript Programs.
* Use of break and continue statement in JavaScript.

**JavaScript Functions, Objects and Methods**

**Objectives:**

After completing this lesson, you will be able to :

* Use of JavaScript Function Object creation in JavaScript.
* Use of JavaScript String, Numbers and Methods.
* Use of Date Function in JavaScript.

**Lesson Duration: 180 Minutes**

**JavaScript Object Model and Form Validation**

**Objectives:**

After completing this lesson you will be able to :

* Demonstrate the construction of the HTML DOM Model.
* Explain the use of the Object Model in creating Dynamic HTML.
* Explain how to add and delete elements in the DOM object Model.
* Explain the methods and properties of the Browser Model Object (BOM).
* Explain the different types of form validation and their use in web pages.

**Lesson Duration: 165 Minutes**

**JavaScript Array**

**Objectives:**

After completing this lesson, you will be able to:

* Store many values just by using a single variable of same data type.
* Sort numeric value and reverse of string array values.
* How to retrieve each values from defined array by using Array.forEach() and for loop.

**Lesson Duration: 300 Minutes**

**jQuery Events and Selectors**

**Objectives: After completing this lesson, you will be able to:**

* Describe the need for jQuery .
* Describe how to traverse HTML document effectively.
* Create and handle events and custom animations.

**Lesson duration:  105 Minutes**

**jQuery Animations and Call Back**

Objectives: After completing this lesson, you will be able to:

* Describe different types of fade() method used in jQuery.
* Describe different uses of slide () method in jQuery
* Apply animate (), stop (), and callback() method in jQuery.

**jQuery HTML and AJAX**

Objectives: After completing this lesson, you will be able to:

* Use of HTML() and adding new element / content in jQuery
* Use of adding new and remove element /content in jQuery
* Use of different types of CSS method and class in jQuery
* Describe the process of Traversing in jQuery.

### Introduction to Bootstrap4

Objective: After completing this lesson, you will be able to:  
  
\* Create mobile-first websites using Bootstrap4  
\* Work with the basic elements of Bootstrap4

**Lesson Duration:  120 Minutes**

**Bootstrap4 colors and Tables**

After completing this lesson, you will be able to:

* Create various types of images with classes.
* Create different types of buttons.

**Lesson Duration:  135 Minutes**

**Botstrap4 Images,alerts, spinner and Propagation**

After completing this lesson, you will be able to:

* Create various types of images with classes.
* Create different types of buttons.

**Lesson Duration:  135 Minutes**

**Bootstrap Badges and Progress Bar**

After completing this lesson, you will be able to:

* How to add additional information to any content.
* How to use the progress bar to the particular process.

**Lesson Duration :  165 Minutes**

### Bootstrap4 Pagination and Dropdowns

### Bootstrap4 Forms and Utilities

### Introduction to Web Publishing and Hosting