**Lesson Plan**

Name of the Faculty : Shashi Bhushan Discipline : Computer Engg.

Semester : 2nd

# Subject : Advances in information technology

Lesson Plan Duration : 15 weeks

Work Load per week (in hours): Lectures-02, Practical-04

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| **Week** | **Theory** | | **Practical** | |
| **Lecture day** | **Topic** | **Practical week** | **Topic** |
| 1st | 1st | **UNIT I**  **HTML Fundamentals**  Introduction to HTML- Characteristics of HTML language, Structure of a HTML page. Describing Tags. | 1st | 1. Creating an HTML document |
| 2nd | How to create a HTML document? Viewing HTML document, commonly used web browsers. HTML4 – List of Tags in HTML4, HTML tags:. |
| 2nd | 3RD | Container elements, empty elements. Using tags, Heading, Paragraph, Changing appearance of text (bold, italics, underline, subscript, superscript) | 2nd | 2. Working with Mark up Tags |
| 4TH | center tag, title tag. Changing font size, text color and background, Changing the background color and background of HTML page |
| 3rd | 5th | Top marging, left margin, & nbsp,<hr> and its attributes | 3rd | 3. Working with Heading-Paragraphs |
| 6th | Revision |
| 4th | 7th | Test | 4th | 4. Working with Text  5. Working with Lists |
| 8th | **Working with HTML**  Using list and images: Unordered lists: type attribute. Ordered lists: start attribute, type attribute, value attribute. |
| 5th | 9th | Nested lists. Inserting images, aligning an image, centering image, adding border to a image, alternate text, | 5th | 6. Working with Tables and Frames  7. Working with Hyperlinks  8. Working with Images and Multimedia  9. Working with Forms and controls. |
| 10th | setting height and width, adding space around the image. Working with links: Anchor elements, creating hyperlink to a document. |
| 6th | 11th | Internal linking and external linking. | 6th | 10. Create a HTML form with Name, Password and Confirm Password Write a Java script to validate if Password and Confirm Password field values are same.  11. Write a Java script to animate a simple Image using set Timeout. |
| 12th | Assignment |
| 7th | 13th | Test | 7th | 12. Write a Java script to illustrate auto refreshing in your own Web page.  13. Develop a simple calculator using Java script. |
| 14th | **Designing with HTML**  Creating tables: Creating a table, attributes of table tag |

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| **Week** | **Theory** | | **Practical** | |
| **Lecture day** | **Topic**  **(including assignment / test)** | **Practical Day** | **Topic** |
| 8th | 15TH | (BORDER, BORDERCOLOR, BGCOLOR, ALIGN, CELLSPACING, CELLPADING, WIDTH) Attributes of table row <tr> and table data <td> | 8th | 14. Write a Java script to illustrate the use of cookies in your own Web page.  15. Write a Java script to prompt two integer numbers from the user and display the sum of them.  . |
| 16TH | tag (BORDERCOLOR, BGCOLOR, ALIGN, VALIGN, HEIGHT). Row span and Col span.  Working with Frames. |
| 9th | 17th | Use and creating frames. Introduction to Forms  Steps for developing a Website | 9th | 16. Write a Java script to greet the user with “Good Morning” or “Good Afternoon” or “Good Evening” depending on the current time. |
| 18th | Assignment |
| 10th | 19th | Test | 10th | 17. Generate a Digital Clock using Java script. |
| 20th | **JAVA Script Overview and Core Language Features** |
| 11th | 21st | Introduction to Scripting Languages, JavaScript Implementation-ECMAScript-DOM-BOM-Values-Variables-Literals-Constants-Operators a | 11th | 18. Write a Java script to change the background color of the image in definite time intervals |
| 22nd | Expressions-Regular Expressions Conditional Branching Statements- Conditional Looping Statements-Functions |
| 12th | 23rd | Creating Simple Java Script page-Adding JavaScript page into HTML | 12th | Revision |
| 24th | Assigment |
| 13th | 25th | Test | 13th | Revision |
| 26th | **Document Access**  The Document Object Model: Mapping your HTML -Text Nodes-Attribute Nodes Accessing the Nodes you Want: |
| 14th | 27th | Finding an Element by ID-Finding Elements by Tag Name-Finding Elements by Class Name; | 14th | Revision |
| 28th | Navigating the DOM Tree-Interacting with Attributes - Changing Styles |
| 15th | 29th | Changing Styles with Class and Id-Font-Table Layout-Text Properties- Padding, Borders and Margins | 15th | Revision |
| 30th | Revision |
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