

**2<sup>nd</sup> SEMESTER**  
**COMPUTER APPLICATIONS**  
**(WEB DEVELOPER)**  
**SKILL ENHANCEMENT COURSE (SEC)**

**WDP222S: JAVA SCRIPT AND CSS BASICS**

**CREDITS: THEORY: 2, PRACTICAL: 2**

**THEORY (2 CREDITS)**

**UNIT 1 – JAVA SCRIPT (15 LECTURES)**

Introduction, Script Tag, Data Types, Variables, Literals, Expressions, Operators, Conditional Statements (if, if-else, if-else-if-else), switch-case, Looping Statements (while, for, do-while), Array, Associative Arrays, Functions, Event Handling, Javascript Objects (Browser, Document, Window etc.)

**UNIT 2 – CSS (15 LECTURES)**

DHTML introduction, Style Sheets-Embedded Styles, Inline Styles, External Style Sheets, Using Classes, Style Sheet Properties- Fonts Properties, Background and Colour Properties, Text Properties, Box Properties, Classification Properties-Display Property, Whitespace Property, , CSS Units, URL's , DIV and SPAN Tags, Dynamic Positioning, Layering, DHTML Events.

**REFERENCE BOOKS:**

1. Java Script Bible Wrox Publications
2. DHTML BPB Publications

**PRACTICAL (2 CREDITS)**

**LAB SHEET- JAVA SCRIPT AND CSS BASICS**

1. Write a JavaScript program to display the current day and time in the following format
2. Write a JavaScript program to get the current date
3. Write a JavaScript program that accept two integers and display the larger
4. Write a JavaScript conditional statement to sort three numbers. Display an alert box to show the result
5. Write JavaScript to demonstrate loops: while, for, do-while
6. Write a JavaScript for loop that will iterate from 0 to 15. For each iteration, it will check if the current number is odd or even, and display a message to the screen
7. Write a JavaScript function to check whether an `input` is an array or not
8. Write a JavaScript program to sort the items of an array
9. WAP to show blinking effect on a web page using JavaScript.
10. Write CSS for *Fonts, Background, Color, Text*
11. Design a digital clock using JavaScript and CSS.
12. Design a calculator using HTML & JavaScript.
13. Write a JavaScript program to demonstrate Event Handling.
14. WAP to validate Email Address in JavaScript.
15. Write a program to demonstrate exception handling in JS.