Value Added Add-On Course
DETAILED SYLLABUS

Title of the Course	:	**Internet and Web Technology**
Course Code	:	
Nature of the Course	:	**Value Added**
Total Credits	:	**02**
Distribution of Marks	:	**60 TH + 20 PR (End Sem) + 20 (In-Sem)**

COURSE SUMMARY:

The aim of this course is to provide the conceptual and technological developments in the field of Internet and web designing with the emphasis on comprehensive knowledge of Internet and its applications. The World Wide Web with its widespread usefulness has become an integral part of the Internet. Therefore, this course also puts emphasis on basic concepts of web design.

COURSE OBJECTIVES:

● To introduce the fundamentals of Internet, and the principles of web design.
● To construct basic websites using HTML and Cascading Style Sheets.
● To build dynamic web pages with validation using Java Script objects and by applying different event handling mechanisms.

UNITS	CONTENTS	L	T	P	Total Hours
1 **(Marks)** **12 TH**	**The Internet and WWW** Understanding the WWW and the Internet, Emergence of Web, Web Servers, Web Browsers, Protocols, and Building Web Sites.	03	01	00	4
2 **(Marks)** **12 TH + 8 PR**	**HTML** Planning for designing Web pages, Model and structure for a Website, Developing Websites, Basic HTML using images links, Lists, Tables and Forms, Frames for designing a good interactive website.	01	01	04	6
3 **(Marks)** **12 TH + 6 PR**	**JAVA Script** Programming Fundamentals, Statements, Expressions, Operators, Popup Boxes, Control Statements, Try…. Catch Statement, Throw Statement, Objects of JavaScript: Date object, array object, Boolean object, math object	01	01	04	6
4 **(Marks)** **12 TH + 6 PR**	**Cascading Style Sheets (CSS)** External Style Sheets, Internal Style Sheets, Inline Style, The class selector, div & span tag. **DOM** HTML DOM, inner HTML, Dynamic HTML (DHTML), DHTML form, XML DOM	02	01	03	6
5 **(Marks)** **12 TH**	**Internet Security Management Concepts** Overview of Internet Security, Firewalls, Internet Security, Management Concepts and Information Privacy and Copyright Issues	03	01	0	4
	Total (in Hrs)	**10**	**05**	**11**	**26**

Where, L: Lectures T: Tutorials P: Practical (1P = 2 Hours)

MODES OF IN-SEMESTER ASSESSMENT: **(20 Marks)**
- One Internal Examination   -   **10 Marks**
- Others (Any one)   -   **10 Marks**
    - Quiz
    - Seminar presentation
    - Assignment

LEARNING OUTCOMES:

- Analyze a web page and identify its elements and attributes.
- Create web pages using HTML and Cascading Style Sheets (CSS).
- Build dynamic web pages using JavaScript (Client side programming).

SUGGESTED READINGS:

- D. Comer, "The Internet Book", 5th edition , 2019, Pearson Education.
- Ivan Bayross, "HTML, DHTML, JavaScript, Perl CGI", 4th (Revised) edition, 2022, BPB Publications.
- Godbole AS & Kahate A, "Web Technologies", 3rd edition, 2017, Tata McGraw Hill.
- Greenlaw R and Hepp E "Fundamentals of Internet and www" 2nd edition, 2007, Tata McGraw Hill.