

3IT85: WEB APPLICATION AND DEVELOPMENT
CREDITS – 4(LTP: 3,0,2)

Course Objective:

To learn the concepts of web designing to design and implement web application.

Teaching and Assessment Scheme:

Teaching Scheme (Hours per Week)			Credits	Assessment Scheme				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE	CE	ESE	CE		
3	0	2	4	60	40	20	30	150

Course Contents:

Unit No.	Topics	Teaching Hours
1	Web server, Access and security, Web Protocol(HTTP/1.1): Overview of HTTP, HTTP language elements, HTTP extensibility, SSL and security, Evolution of HTTP/1.1 protocol 2.8 methods-headers and response codes in 1.0 /1.1, Cloud Web hosting, Web Server Basics.	3
2	Web Design: Concepts of effective web design, Web design issues including browser, Bandwidth and cache, Display resolution, Look and feel of the website, Page layout and linking, Sitemap, Planning and publishing website.	4
3	HTML: Basics of HTML, Formatting and fonts, Commenting code, Color, Hyperlink, Lists, Tables, Images, Forms, Frames, Browser architecture and web site structure.	6
4	HTML5: HTML5 New Element, HTML5 Canvas, HTML5 Drag/Drop, HTML5 Video, HTML5 Audio, HTML5 Input type, HTML5 Form Element, HTML5 Form Attribute, Features of HTML5.	5
5	Style sheets: Need for CSS, Introduction to CSS, Basic syntax and structure, Background images, Colors and properties, Manipulating texts, Using fonts, Borders and boxes, Margins, Padding , lists, Positioning using CSS, CSS2, Overview and features of CSS3.	7
6	JavaScript: Client side scripting with JavaScript, Variables, Functions, Pop up boxes, The DOM and web browser environments, Manipulation using DOM, Forms and validations. DHTML: Combining HTML, CSS and JavaScript, Events and buttons.	8
7	PHP: Introduction and basic syntax of PHP, PHP and HTML, Arrays, Functions, String, Form processing, Files, Advance Features: cookies and sessions.	6
8	PHP and MySQL: Introduction to MySQL, Connection to server, Creating database, Selecting a database, Creating a table, Inserting data, Altering tables, Queries, Deleting database, Deleting data and tables.	6
Total		45

List of References:

1. Ralph Moseley and M. T. Savaliya, "*Developing Web Applications*", Wiley-India.
2. Black Book, "*Web Technologies*", dreamtech Press.
3. Black Book, "*HTML 5*", Dreamtech Pr.
4. Joel Sklar, "*Web Design*", Cengage Learning.
5. Harwani, "*Developing Web Applications in PHP and AJAX*", McGrawHill.
6. P.J. Deitel & H.M. Deitel, "*Internet and World Wide Web How to program*", Pearson.

Course Outcomes (COs):

At the end of this course students will be able to ...

1. Able to understand internet concepts that are vital in understanding web development.
2. Understand the role of computer languages and protocols in the workings of the web and able to explain the roles of web development.
3. Describe the strengths and weaknesses of the client-server internet approaches to web design and implementation.
4. Design and apply markup languages for processing, identifying, and presenting of information in web pages.
5. Design and implement an interactive web site(s) with regard to issues of usability, accessibility and internationalization.
6. Design and implement a client-server internet application that accommodates specific requirements and constraints, based on analysis, modeling or requirements specification.