

**ES116: INTRODUCTION TO WEB PROGRAMMING
CREDITS – 2 (LTP:0,0,2)**

Course Objectives:

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

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		
0	0	4	2	00	00	40	60	100

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, Caching, Bandwidth Optimization, Connection Management.	04
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, User centric design, Sitemap, Planning and publishing website, Designing effective navigation.	06
3	HTML: Basics of HTML, formatting and fonts, commenting code, color, hyperlink, lists, tables, images, forms, XHTML, Meta tags, Character entities, frames and frame sets, Browser architecture and Web site structure	06
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.	04
5	Style sheets: Need for CSS, introduction to CSS, basic syntax and structure, using CSS, background images, colors and properties, manipulating texts, using fonts, borders and boxes, margins, padding lists, positioning using CSS, CSS2, Overview and features of CSS3.	04
6	XML: Introduction to XML, uses of XML, simple XML, and XML key components, DTD and Schemas, Using XML with application. Transforming XML using XSL and XSLT	04
7	HTML/CSS Editor W3School, Online HTML Editor, Sub Lime Text Ediitor	04
Total		32

List of References:

1. Ralph Moseley and M. T. Savaliya, *“Developing Web Applications”*, Wiley-India (2011).
2. Black Book, *“Web Technologies”*, Dreamtech Press (2012).
3. Black Book, *“HTML 5”*, Dreamtech Press.
4. Joel Sklar, Cengage Learning, *“Web Design”*, Fifth Edition.
5. P.J. Deitel & H.M. Deitel, *“Internet and World Wide Web How to program”*, Pearson, Fourth Edition.

Course Outcomes (COs):

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

1. Understand internet concepts for web development.
2. Understand the concepts of WWW including web protocols and web browser architecture.
3. Understand the role of computer languages and protocols in the workings of the web.
4. Design and apply markup languages for processing, identifying, and presenting of information in web pages.
5. Develop the static web pages using the HTML, XML and CSS with different layouts as per need of applications.
6. Install and configure web server.