

GUJARAT TECHNOLOGICAL UNIVERSITY

Information Technology / Information and Communication Technology B. E. SEMESTER: VI

Subject Name: **Web Technology & Programming**
Subject Code: **161602**

Teaching Scheme

Evaluation Scheme

Theory	Tutorial	Practical	Total	University Exam (Theory) (E)	Mid Sem Exam (Theory) (M)	Practical (I)
3	0	2	5	70	30	50

Sr. No	Course Content	Total Hrs.
1.	Introduction to WWW : Protocols and programs, secure connections, application and development tools, the web browser.	03
2.	Introduction to HTML : The development process, basic HTML, formatting and fonts, commenting code, color, hyperlink, lists, tables, images, simple HTML forms, web site structure Introduction to XHTML : XML, Move to XHTML, Meta tags, Character entities, frames and frame sets, inside browser.	07
3.	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	05
4.	Javascript : Client side scripting, What is Javascript, How to develop Javascript, simple Javascript, variables, functions, conditions, loops and repetition, Javascript : Advance script, Javascript and objects, Javascript own objects, the DOM and web browser environments, forms and validations DHTML : Combining HTML, CSS and Javascript, events and buttons, controlling your browser	07

5.	XML : Introduction to XML, uses of XML, simple XML, XML key components, DTD and Schemas, Well formed, using XML with application. XML, XSL and XSLT. Introduction to XSL, XML transformed simple example, XSL elements, transforming with XSLT	06
6.	Web services, Feeds and Blogs : Need for web services, SOAP, SOAP XML and HTTP, Web feeds, Blogs, The server side : What is server, choices, setting up UNIX and Linux web servers, Logging users, dynamic IP	08
7.	PHP : Starting to script on server side, Arrays, function and forms, advance PHP,	08
8.	Introduction to PERL and CGI programming. Processing forms using PERL	04

Text Book:

1. Developing Web Application by Ralph Moseley. Wiley India

Reference Books:

1. Web Technologies, Black Book, dreamtech Press
2. Web Technologies, U. K. Roy, Oxford Higher Education
3. Web applications by Craig Knuckles and David Yuen. Wiley India
4. Programming the World Wide Web, Sebesta, Pearson Education
5. Developing Web Applications in PHP and AJAX, Harwani, McGrawHill
6. Internet and World Wide Web How to program by P.J. Deitel & H.M. Deitel. Pearson publication