GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. SEMESTER: VI
Computer Engineering /Computer Science & Engineering

Subject Name: **Web Application Development**
Subject Code: **160705**

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, **Web Design**: Web site desin principles, planning the site and navigation	05
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 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 **Databases :** Basic command with PHP examples, Connection to server, creating database, selecting a database, listing database, listing table names creating a table, inserting data, altering tables, queries, deleting database, deleting data and tables, PHP myadmin and database bugs.	10

Text Books:

1. Developing Web Application, Ralph Moseley, Wiley India
2. Web Design, Joel Sklar, Cengage Learning

Reference Books:

1. Web Design, Joel Sklar, Cengage Learning
2. Web Technologies, Black Book, dreamtech Press
3. Web Applications : Concepts and Real World Design, Knuckles, Wiley-India
4. Developing Web Applications in PHP and AJAX, Harwani, McGrawHill
5. Internet and World Wide Web How to program, P.J. Deitel & H.M. Deitel. Pearson publication