C. U. SHAH UNIVERSITY – WADHWAN CITY

FACULTY OF TECHNOLOGY AND ENGINEERING
DEPARTMENT OF INFORMATION TECHNOLOGY
B. TECH. SEMESTER: - V

Subject Name: Web Technology and Programming (WTP)
Subject Code: 4TE05WTP1

Teaching & Evaluation Scheme: -

Subject Code	Subject Name	Teaching Scheme (Hours)				Credits	Evaluation Scheme							Total
							Theory				Practical (Marks)			
		Th	Tu	Pr	Total		Sessional Exam		University Exam		Internal		University	
							Marks	Hours	Marks	Hours	Pr/Viva	TW	Pr	
4TE05WTP1	Web Technology and Programming (WTP)	3	0	4	7	5	30	1.5	70	3.0	-	20	30	150

Objectives:

- To understand the concepts web technologies
- To gain the knowledge of HTML, XHTML, CSS, XML
- To gain the knowledge of client side scripting using JavaScript
- To gain the knowledge of server side scripting using PHP

Prerequisites:

- Basic knowledge of Programming Language and database

Course outline:

Sr. No.	Course Contents	Total Hrs.
1	**Introduction to HTML :** Elements of HTML and CSS	03
2	**JavaScript:** Client side scripting, Data types, What is JavaScript, How to develop JavaScript, simple JavaScript, variables, control and looping, functions, Dialog Boxes ,objects, JavaScript own objects, the DOM and web browser environments, forms and validations	08
3	**DHTML:** Combining HTML, CSS and JavaScript, events and buttons, browser	04

	navigation	
4	**XML and XHTML:** Introduction to XML, uses of XML, simple XML, and XML key components, DTD and Schemas, Well formed XML, Move to XHTML, Meta tags, Character entities, frames and frame sets	**08**
5	**PHP:** Starting to script on server side, Data types, Variable, Operator ,Control statements, Loops, Arrays, function and forms, global array, string manipulation with PHP, Files, Password, Email, Uploading, Cookies, Sessions, Object-Oriented Programming	**12**
6	**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	**06**
7	**AJAX with PHP** Introduction to AJAX, Creating Web Page with AJAX , AJAX with Database	**03**
	Total	**45**

Learning Outcomes:

At the end of this module the students will be:
- Able to build interactive dynamic web applications using HTML, CSS, JavaScript and PHP
- Able to create and validate XML files with the use of DTD and Schemas

Books Recommended:
1. Developing Web Application, **Ralph Moseley**, Wiley India
2. Web Design, **Joel Sklar**, Cengage Learning
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
6. PHP and MySQL Projects, **Valade Janet,** Wiley - East New Delhi
7. PHP Fast and Easy Web Development, **Meloni Tulie C**, PHI New Delhi
8. PHP and MySQL Bible, **Suehring Steve Converse Tim Park Joyce,** John Wiley New Delhi