

Stream: B.Tech. (IT)

Subject: Web Technology

Semester: V

Syllabus

UNIT NO:	NAME OF THE UNIT	THEORETICAL SESSIONS	PRACTICAL SESSION TOPICS/CASE STUDY TOPICS
1	Introduction to WWW	<ul style="list-style-type: none"> ○ Protocols and programs, secure connections, application and development tools, the web browser, Advantages and disadvantages of WWW, History of WWW, Application and services provided by WWW, Evolution of WWW 	<ul style="list-style-type: none"> ○
2	Introduction to HTML	<ul style="list-style-type: none"> ○ The development process, basic HTML, formatting and fonts, commenting code, color, hyperlink, lists, tables, images, simple HTML forms, web site structure, XML, Move to XHTML, Meta tags, Character entities, frames and framesets, inside browser, advantages and disadvantages of HTML 	<ul style="list-style-type: none"> ○ All HTML tags and commands
3	Introduction to PHP	<ul style="list-style-type: none"> ○ Accessing PHP, Embedding PHP in HTML, Adding dynamic Content, Accessing Form Variables, Understanding Identifiers, Examining Variable Types, Declaring and Using Constants, Understanding Variable Scope, Using Operators, Using Variable Functions, Making Decision with Conditionals, Repeating Actions through Iteration, Using Declare. 	<ul style="list-style-type: none"> ○ Print “Hello World” using PHP Script ○ Declaring Variable in PHP

4	Array, String & Session Handling	<ul style="list-style-type: none"> ○ What is an array?, Numerically Indexed Arrays, Arrays with Different Indices, Array Operators, Multidimensional Arrays, Sorting Arrays, Sorting Multidimensional Arrays, Reordering Arrays, Loading Arrays from Files, Performing other array Manipulations, Format Strings, Joining and Splitting Strings with String Functions, Compare Strings, Matching and Replacing Substrings with String Functions, Regular Expressions, Session Handling, Retrieving page using session, Functions of session 	<ul style="list-style-type: none"> ○ Condition in PHP ○ Loops in PHP ○ Array and Array Functions ○ String Handling Functions
5	MYSQL Database	<ul style="list-style-type: none"> ○ What is SQL, Inserting data into the Database, Retrieving Data from the Database, Updating Records in the Database, Altering Tables after Creation, Deleting Records from the Database, Dropping Tables, Dropping a Whole Database, Backing Up your MySQL Database, Restoring Your MySQL Database, Integrating MYSQL with PHP Scripting 	<ul style="list-style-type: none"> ○ Database Connectivity with PHP

Reference Book:

1. PHP and MySQL Web. Pearson By Luke Welling, Laura Thomson.
2. Development Web Technologies, By Oxford Higher Education, U. K. Roy.