GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Integrated MSc, 5th Semester
Branch: Information Technology
Subject Name: Web Development with PHP
Subject Code: 1350504

Teaching and Examination Scheme

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P	C	Theory Marks		Practical Marks		
				ESE(E)	PA (M)	PA (V)	PA (I)	
3	0	2	4	70	30	30	20	150

Content:

Sr. No.	Content	Teaching Hours	Module Weightage (%)
1.	**Introduction to WEB** Basics of WWW, HTTP protocol, Client Server architecture, Introduction to web server installation and configuration **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	4	10%
2.	**Client Side Scripting using JavaScript** Syntax of JavaScript, Execution of JavaScript, Internal, Embedded and External Javascript, JavaScript : variables, arrays, functions, conditions, loops, Pop up boxes, JavaScript objects and DOM, JavaScript inbuilt functions, JavaScript validations and Regular expressions, Event handling with JavaScript	7	10%
3.	**PHP Basics** Difference between Client side and Server side scripting, PHP Language Characteristics, Features and Extensions, Language Constructs, Variables, Declarations and Types, Constants, Use of Operators and Control Structures, Arrays, Functions and References, PHP Configuration Directives of php.ini file	9	20%
4.	**Working with Form** FORM element, INPUT element, Validating the user input, Passing variables between pages, GET Method, POST Method, REQUEST Method, Dealing with Multi-value filed, and Generating File uploaded form **Security Threats and Remedies** Securing Request Data, Using CAPTCHA, Session Fixation Attack and Remedy, SQL Injection Attack and Prevention	10	30%
5.	**Sessions and cookies** Concept of Session, Starting session, Modifying session variables, Un registering and deleting session variable,		

	Concept of Cookies, Manage Cookies **Working With Database** Basic MySQL commands, PHP functions for database connectivity, Implementation of CRUD operations using PHP **Advanced Concepts** Asynchronous Web requests using AJAX, Creating REST API using PHP **Hosting Web Overview** Hosting Website (Using 'C' panel, Using Filezilla Software)	10	30%

Suggested Specification table with Marks (Theory):70

Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
10	30	10	10	5	5

R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Reference Books:

1. Internet and World Wide Web How to program, P.J. Deitel & H.M. Deitel, Pearson
2. Web Technology, Moseley and Savaliya, Wiley India
3. HTML 5 Black Book 2Ed, by Kogent Learning Solutions Inc.
4. Learning PHP, MySQL, JavaScript, CSS & HTML5, 3rd Edition
5. PHP: The Complete Reference By Steven Holzner, McGrawhill
6. Learning PHP, MySQL, books by ' O' riley Pres

Course Outcome:

After learning the course, the students should be able to:

No.	CO statement
CO-1	Understand the concepts of WWW, HTTP protocol and client-server architecture.
CO-2	Explore the new features of CSS to define and apply CSS rules in the web pages for rich User Interface.
CO-3	Develop the server side PHP scripts using various features for creating customized web services
CO-4	Understand the concepts of Working with Form element and Security Threats.
CO-5	Develop the server side scripts for designing web based services with database connectivity and web application using advanced web programming features including AJAX and JQuery using concepts of Web API