GUJARAT TECHNOLOGICAL UNIVERSITY
Bachelor of Vocation (B.Voc)
Semester: III
Branch: Software Development
Subject Name: Web Development using PHP
Subject Code: 21130203

Type of course: Core

Prerequisite: HTML, JavaScript, CSS

Rationale: The wide spread use of the Internet and WWW by common people has made it compulsion to provide web based interface for the applications to access the application from anywhere, anytime, anyone. The subject covers the wide range of web technologies both client side and server side to provide the exposure to the students to develop Rich Internet Applications using them. It covers the basics WWW, client side technologies like HTML, CSS and DHTML including JavaScript, server side scripting with PHP and database connectivity using PHP and related technologies.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P	C	Theory Marks		Practical		
				ESE (E)	PA(M)	ESE (V)	PA (I)	
3	0	0	3	50	0	0	0	50

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

Content:

Sr. No.	Practical / Hands on Exercise	Teaching Hrs.	Module Weightage
1.	**UNIT I** Introduction to PHP as a programming Language, Advantages of PHP, The server side architecture Decomposed, Overview of PHP, History of PHP, Object oriented support, Benefits in running PHP as a server side script, Installing a web server, Internet information server, IIS installation, Testing web server setup.	10	20
2.	**UNIT II** The basics of PHP: Data types, Variables, Constants, Operators, Arrays, Conditional statements: if statement, Executing Multiple Statements, else if clause, Switch statement, Iterations: For loop, Foreach loop, While loop, Do while loop, PHP Break, PHP Continue	08	20
3.	**UNIT III** Functions: Advantages, User defined functions, Functions with arguments, Parameterized Function, Call by Value, Call by reference, Default argument, Variable Argument, Recursive Function, Built in functions : print(), includer(), header(), phpinfo(), PHP server Variables, Working with date and time,	08	20

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	Performing mathematical operations, Working with string functions, System Variable: GET, POST, Cookies & Session		
4.	**UNIT IV** Working with forms, Form elements: Text Box, Text Area, Password, Radio Button, Checkbox, The Combo Box, Hidden Field and image, Adding elements to a form, uploading files to the Web Server using PHP, building a challenge and response subsystem and understanding the functionality of the FORM attribute Method Regular Expressions: - Engine, types of Regular Expressions, symbols used in Regular Expressions, Error handling in PHP: Displaying errors, warnings, types of errors, error levels in PHP, Logging Errors and Ignoring errors.	**10**	**30**
5	**UNIT V** Data base connectivity using PHP: MySQL, ODBC, ORACLE, SQL, Performing & executing commands, Different types of Data Base Operations like Insertion, deletion, update and query on data	**06**	**10**
	Total	**42**	

Reference Books:

1. PHP: The Complete Reference, Steven Holzner, McGraw-Hill Education
2. Developing Web Applications, Ralph Moseley and M. T. Savaliya, Wiley-India
3. Mastering PHP, WebTech Solutions, Khanna Publishing House
4. Learning PHP, Ramesh Bangia, Khanna Publishing House
5. Developing Web Applications in PHP and AJAX, Harwani, McGrawHill

Suggested Specification Table with Marks(Theory): (For BVOC only)

Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
10	20	20	0	0	0

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

Course Outcomes:

Sr. No.	CO Statement	Marks % Weightage
Co-1	Understand PHP as programming language	20
Co-2	Understand basics of PHP	20
Co-3	Apply functions and system variables in PHP	20
Co-4	Use server side scripting with PHP to generate the web pages dynamically using the database connectivity.	30

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Co-5	Develop the modern Web applications using the client and server side technologies and the web design fundamentals.	10

Laboratory work: NA

List of Open Source Software/learning website:
Students must refer to following sites to enhance their learning ability.

- www.apachefriends.org
- www.w3.org
- www.w3schools.com
- www.php.net
- www.mysql.com
- www.phpmyadmin.net