



GUJARAT TECHNOLOGICAL UNIVERSITY

Bachelor of Vocation (B.Voc), 3rd Semester

Branch: Information Technology

Subject Name: Programming With PHP

Subject Code: 1130502

Type of course: Core

Prerequisite: Web Technology Using PHP

Rationale: PHP is a powerful tool for making dynamic and interactive database driven web pages. PHP is the widely-used as efficient open-source technology. The students of diploma in Information Technology as web developers would be able to write dynamic interactive web based applications.

Teaching and Examination Scheme:

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		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.	Content	Total Hrs.	Module % Weightage
1	<p>Introduction to PHP</p> <p>Configuration of PHP, Apache Web Server, MySQL and Open Source, Relationship between Apache, MySQL and PHP(AMP Module), Installing PHP for (Windows, Wamp server , XAMP server), PHP Structure and Syntax, Creating PHP pages</p> <p>Rules of PHP syntax, Integrating HTML with PHP, Constants, Variables: Static and Global Variable, Conditional Structure and Looping, PHP operators, Arrays, constructs, User Defined function, argument function, variable function, Return function, default argument, variable length argument</p>	10	20
2	<p>Working with In Built in Functions</p> <p>Variable Function: (gettype, settype, isset, strval, floatval, intval, print_r), string function: (Chr, ord, strtolower, strtoupper, strlen, ltrim, rtrim, trim, substr, strcmp, strcasecmp, strpos, stripos, stristr, str_replace, stripslashes, echo, print), MATH functions: (Abs, ceil, floor, round, fmod, min, max, pow, sqrt, rand), Date function: (Date, getdate, setdate, checkdate, time, mktime), Array Function: (Count, list, in_array, current, next, previous, end, each, sort, array_merge, array_reverse)</p>	8	20
3	<p>Working with data and forms</p> <p>Reading data using Form Controls (Text Fields, Text Areas, Checkboxes, Radio Buttons, List Boxes, Password, Controls, Hidden Controls, Image Maps, File Uploads, Buttons), Submitting form values, using \$_Get and \$_Post Methods, \$_REQUEST, accessing form inputs with Get/Post functions, Combining HTML and PHP codes together on single page, Redirecting User</p>	8	20



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4	Session, Cookies and Error Handling Setting a cookie with PHP, deleting a cookie, creating session cookie, working with the query string Creating query string, Session Starting and Destroying session, working with session variables, Passing session IDs, Error Types in PHP Exception Handling in PHP.	8	20
5	Database Connectivity using MYSQL Concepts and Installation of MySQL, MySQL structure and syntax, Types of MySQL tables and Storage engines, MySQL commands, Integration of PHP with MySQL connection to the MySQL Database, Creating and Deleting MySQL database using PHP, Updating, Inserting, deleting records in the MySQL database, Hosting Website (Using 'C' panel, Using FileZilla Software)	8	20
Total		42	100

Reference Books:

1. Beginning PHP and MySQL, 4th Edition
2. PHP: The Complete Reference
3. Learning PHP, MySQL, JavaScript, CSS & HTML5, Third Edition

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	Create small programs using basic PHP concepts.	10
CO-2	Apply In-Built and Create User defined functions in PHP programming	15
CO-3	Design and develop a Web site using form controls for presenting web based content	20
CO-4	Debug the Programmes by applying concepts and error handling techniques of PHP	20
CO-5	Create dynamic Website/ Web based Applications, using PHP, MySQL	35

List of Open Source Software/learning website:

Students must refer to following sites to enhance their learning ability.

Software: WAMP server / XAMPP server, 'C' Panel, Text Editor

1. <http://www.codecademy.com/tracks/web>,
2. <http://www.codecademy.com/tracks/php>
3. <http://www.w3schools.com/PHP>
4. <http://www.tutorialpoint.com>
5. <http://www.homeandlearn.co.uk>