GUJARAT TECHNOGICAL UNIVERSITY
DIPLOMA IN COMPUTER ENGINEERING

SEMESTER- VI

Subject Name: **PHP & My SQL**

Sr. No.	Subject Content	Hrs.
1	**1.0 INTRODUCTION TO PHP .** 1.1 History of PHP, Apache Web Server, MySQL and Open Source 1.2 Relationship between Apache, MySQL and PHP (AMP Module) 1.3 PHP configuration in IIS 1.4 Apache Web server	3
2	**2.0 BASICS OF PHP.** 2.1 PHP structure and syntax 2.2 Creating the PHP pages 2.3 Rules of PHP syntax 2.4 Integrating HTML with PHP 2.5 Constants, Variables : static and global variable 2.7 Conditional Structure & Looping 2.8 PHP Operators 2.9 Arrays, foreach constructs 2.10 User defined function, argument function, Variable function, Return Function, default argument, variable length argument	6

3	**3.0 WORKING WITH FUNCTIONS.**
	3.1 Variable Function : gettype, settype, isset, unset, strval, floatval,
	      intval, print_r
	3.2 String Function : chr, ord, strtolower, strtoupper, strlen, ltrim,
	     rtrim trim, substr, strcmp, strcasecmp, strops, strrpos, strstr,
	      stristr, str_replace, strrev, echo, print
	3.3 Math Function : abs, ceil, floor, round, fmod, min, max, pow,
	      sqrt, rand
	3.4 Date Function : date, getdate, setdate, checkdate, time, mktime
	3.5 Array Function : count, list, in_array, current, next, previous,
	      end, each, sort, array_merge, array_reverse
	3.6 File Function : fopen,fread,fwrite,fclose
		4

4	**4.0 WORKING WITH DATA.**	**8**
	4.1 FORM element, INPUT elements	
	4.2 Processing the form	
	4.3 User Input	
	4.3.1 INPUT checkbox type	
	4.3.2 one form, multiple processing	
	4.3.3 Radio INPUT element	
	4.3.4 Multiple submit buttons	
	4.3.5 Basic input testing	
	4.3.6 Dynamic page title	
	4.3.7 Manipulating the string as an array	
	4.4 Adding items	
	4.5 Validating the user input	
	4.6 Passing variables between pages	
	4.6.1 Passing variables through a URL	
	4.6.2 Passing variables with sessions	
	4.6.3 Passing variables with cookies	
	4.6.4 Passing information with forms	
5	**5.0 ERROR HANDLING.**	**3**
	5.1 Error types in PHP	
	5.2 Generating PHP errors	
	5.3 Exceptions	
	5.4 Not meeting conditions	
	5.5 Parse errors	
6	**6.0 IMAGES WITH PHP.**	**4**
	6.1 Working with GD Library	
	6.2 File types with GD and PHP	
	6.3 Compiling PHP with GD	
	6.4 Creating the image table	
	6.5 Uploading the image	
7	**7.0 INTRODUCTION TO MYSQL**	**6**
	7.1 MySQL structure and syntax	
	7.2 Types of MySQL tables and storages engines	
	7.3 MySQL commands	
	7.4 Integration of PHP with MySQL	
	7.5 Connection to the MySQL server	
	7.6 Working with PHP and arrays of data	
	7.7 Referencing two tables	
	7.8 Joining two tables	

8	8.0 WORKING WITH DATABASE	8
	8.1 Creating a table	
	8.2 Manipulating the table	
	8.2.1 Filling the table with data	
	8.2.2 Adding links to the table	
	8.2.3 Adding data to the table	
	8.2.4 Displaying the new information	
	8.2.5 Displaying the movie details	
	8.3 Editing the database	
	8.4 Inserting a record	
	8.5 Deleting a record	
	8.6 Editing data	
	Total	**42**

NOTE:- Following are the minimum experiences required, but the college can do more experiences if possible.

Laboratory Experiences:

Students should write programmes on the basic of prescribed Syllabus of this Subject (minimum 20 programmes)

It should includes the followings: Hrs.

1. Creating the PHP page.   2

2   Programs using arrays and control and loop structures   6
3   Testing different PHP functions and user define function.   4
4   Creating forms using buttons, textboxes and other form elements.
    Use ($_POST and $_GET to retrieve data.)   8
5. Passing hidden information to the form processing script via hidden
    form controls   and a URL query string.   4
6.Creating forms with sessions and cookies.   2
7. Error handling and exception creating error handling pages with PHP.   4

8.Enabling PHP setup to include the GD Library.   2
9.Allowing the user to upload their own images.   4
10.View the data contained in the My SQL database.   6
11.Connect to the database from your website.   4
12.Programs to manipulate the table.   10

                                                      Total   56

Note : Number of programs for any topics can be vary, depends on the weightage of the topic.

Reference Books:

(1) **Beginning PHP, Apache, MySQL Web Development**
Elizabeth Naramore, Jason Gerner , Yann Le Scouarnec, Jeremy Stolz, Michael K. Glass,   Gary Mailer - By Wrox Publication
(2) **PHP, MySQL and Apache** - Julie C. Melone By Pearson Education
(3) **Beginning PHP 5.3**
   by Matt Doyle - By Wrox Publication
(4) **PHP and MySQL Bible** – Tim Converse and Joyce Park with Clark Morgam
By Wiley   INDIA