



C. U. Shah University, Wadhwan City

Faculty of Computer Science

Name of Program: Bachelor of Computer Application (BCA)

Semester : III

w.e.f. June-2014

Teaching & Evaluation Scheme

Sr. No	Subject Code	Subject Name	Teaching Hours/Week				Credits	Evaluation Scheme/Semester							
			Th	Tu	Pr	Total		Theory				Practical			Total Marks
								Sessional Exam		University Exam		Internal		Uni .	
								Marks	Hrs	Marks	Hrs	Pr	TW	Pr	
4	4CS03BPH2	Web Development using PHP, MySQL - 2	4	-	-	4	4	30	1.5	70	3	-	-	-	100

Objectives:The objective of PHP course is to train students in becoming proficient PHP/MySQL web developers.

Pre-requisites:All MySQL and PHP class attendees must be fluent in HTML. The course can be customized to any level of programming and relational database familiarity.

Ch. No.	Chapter Name	Chapter Topics	Total Lectures
1	Web concept	Internet and WWW, IP Addressing, Domain Name System, Web Browser, Web Server, Web Hosting, Virtual Host, Multi Homing, HTTP, HTTPS, protocol, FTP protocol, Client & Server side Scripting, ISP and its Services	4
2	Introduction to PHP	PHP configuration in IIS & Apache Web server, PHP Variable, Static and global variable, \$_GET, \$_POST, \$_REQUEST, Array, PHP Operator, Conditional, Branching and Looping Statements, User Define Function, argument function, default argument, variable function, return function, Variable Length Argument Function	7
3	PHP Functions	Variable Function: Gettype, settype, isset, unset, strval, floatval, intval, print_r String Function: Chr, ord, strtolower, strtoupper, strlen, ltrim, rtrim, trim, substr, strcmp, strcasecmp, stripslashes, strpos, strstr, stristr, str_replace, strrev, echo, print Math Function: 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, rsort, asort, arsort, array_merge, array_reverse Miscellaneous Function: Define, constant, include, Require, header, die, mail File handling Function: fopen, fread, fwrite, fclose, file_exists, is_readable, HTML forms with PHP, Regex in PHP, Regular Expression Function	10
4	PHP File	PHP File Upload, PHP File Downloading, PHP Sessions, PHP Cookies, Sending HTTP Headers, Sending Emails, PHP Server variables	6
5	MySQL	Introduction to MySQL, PHPMyadmin, MySQL Data types, MySQL Functions, Connecting to MySQL mysql_connect(), mysql_close(), mysql_select_db() Making MySQL Queries, mysql_query() (create, insert, update, delete, select) MySQL Aggregate Functions(sum, avg, count) MySQL Clauses, Checking for Greater or Less Than, Operator: OR, AND, NOT, IN, BETWEEN, LIKE Sub queries, Joins and Unions Fetching Data Sets: Mysql_fetch_row(), Mysql_fetch_object(), Mysql_fetch_array(), Mysql_result()	8
6	Object Oriented Programming With PHP	Object Oriented Programming in PHP, Classes & Object, Define a class, Class attributes, Creating an Object, Object properties, Object Methods, Object constructors and destructors, Static Method, Class Inheritance, Abstract Class, Implement Inheritance	6

7	Ajax	Introduction to AJAX, PHP with AJAX AJAX XMLHttpRequest Object: XMLHttpRequest Methods , XMLHttpRequest Properties, AJAX Request and Response, AJAX Events, Sending data to PHP with Ajax, AJAX with MySQL Database	7
8	JQuery	Introduction to JQuery, How JQuery Works and How it is Created, Using JQuery with PHP, Using JQuery with PHP and MySQL	7
TOTAL::			55

Teaching Methodology:

Revision, Paper Solving, Seminar, Expert Talk, MCQ Quiz, Viva Test, Programming Test

Learning Outcomes:

At the end of the course, students will have basic understanding of the web technology and be able to architect, write, debug, and run complete web applications using PHP and MySQL

Books Recommended:

1. "The Complete Reference PHP" McGraw Hill Professional, Steven Holzner ISBN: 9780070223622
2. "Ajax, JavaScript and PHP" SamsTeachYourself Sams Publishing, Phil Ballard Michael Moncur ISBN:9780672329654

Reference Books:

1. "Beginning PHP5, Apache, MySQL Web Development" Wrox Publication ISBN: 0-7645-5744-0
2. "PHP6 and MySQL® Bible" Wiley Publishing, Tim Converse and Joyce Park with Clark Morgan ISBN: 978-0-470-38450-3
3. "HTML, JavaScript, DHTML and PHP" BPB Publishing, Ivan Bayross ISBN: 978-81-8333-008-4
4. "AJAX and PHP Building Responsive Web Applications", Packt Publishing ISBN:1-904811-82-5
5. "Beginning Ajax with PHP" From Novice to Professional Apress Publishing, Lee Babin ISBN:978-1-59059-667-8
6. "Pro PHP and jQuery" Apress Publishing, Jason Lengstorf ISBN:978-1-4302-2847-9