C. U. Shah University, Wadhwan City

Faculty of Computer Science
Name of Program: Master of Science Information Technology (Web Technology)
Semester : I
W.e.f. June-2014
Teaching & Evaluation Scheme

Sr. No	Subject Code	Subject Name	Teaching Hours/Week				Cre dits	Evaluation Scheme/Semester							Total Marks
								Theory				Practical			
			Th	Tu	Pr	Total		Sessional Exam		University Exam		Internal		Uni.	
								Mks	Hrs	Mks	Hrs	Pr	Case Study	Pr	
3	5CS01WAP1	Advanced PHP-I	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 Hours
1	Introduction To PHP	Introduction to PHP + MySQL, Client Side v/s Server Side Scripting, PHP syntax and variables, PHP Operators and Expressions, Conditional, Branching and Looping Statements, Learning Arrays in PHP, Comments in PHP, PHP Variables, UDF Functions	5
2	PHP Functions	PHP Date Function, PHP Array Function, PHP String Function, PHP include() , require() PHP $_GET and $_POST PHP $_REQUEST, HTML forms with PHP, Regex in PHP, Regular Expression Function	6
3	File, Session, Cookie and HTTP	PHP File Upload: Create an Upload-File Form, Create the Upload Script, Restrictions on Upload, Saving the Uploaded File, PHP File Downloading, PHP Sessions, PHP Cookies, Sending HTTP Headers, Sending Emails, PHP Server variables	6
4	MySQL	Introduction To MySQL, PHP MySQL Connect To a Database, Closing A Connection Execute Query, MySQL DataTypes, MySQL Functions, Fetching Data Sets:Mysql_fetch_row, Mysql_fetch_object,Mysql_fetch_array, Mysql_result, MySQL Insert,Update,Delete,Select, MySQL Clauses MySQL Aggregate Functions(sum,avg,count), MySQL Sub queries, MySQL Joins Query, PHP Connectivity with MySQL	10
5	Object Oriented Programming With PHP	Object Oriented Programming, Classes & Object, Object oriented concepts, Define a class, Class attributes, Creating an Object, Object properties, Object Methods, Object constructors and destructors, Static Method, Class Inheritance, Abstract Class, Implement Inheritance, Exception Handling	8
6	GD Library and PDF	GD library usages in PHP, Drawing Images on the Server, PDF creation function, Generate Pager Report using PDF	8

7	CAKE PHP (Frame work)	Introduction to CakePHP, Introduction to MVC, Installing CakePHP, Creating Controller, View, Models, URL Routing, Scaffolding, Redirecting control, Configuring with Database Creating Html forms, Using JavaScript with CakePHP, Integrating Ajax with CakePHP Creating Validation with CakePHP, Integrating HTML template in CakePHP CRUD implementation in CakePHP, Working with Session, Developing Plugin with CakePHP	12
	TOTAL::		**55**

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 as well as CakePHP CMS framework

Teaching Methodology:

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

Books Recommended:
1. "The Complete Reference PHP" McGraw Hill Professional, Steven Holzner ISBN: 9780070223622
2. "Ajax, JavaScript and PHP" SamsTeachYourselfSams Publishing, Phil Ballard Michael MoncurISBN:9780672329654
3. CakePHP Cookbook Documentation"Release 2.x Cake Software Foundation

Reference Books:
1. "Beginning PHP5, Apcahe, 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 BayrossISBN: 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