C. U. Shah University, Wadhwan City
Faculty of Computer Science
Name of Program: Master of Science Information Technology
(Web Technology)
Semester : II
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			
								Sessional Exam		University Exam		Internal		Uni.	
			Th	Tu	Pr	Total		Mks	Hrs	Mks	Hrs	Pr	Case Study	Pr	
3	5CS02WAP2	Advanced PHP-II	4	-	-	4	4	30	1.5	70	3	-	-	-	100

Objectives:

- Program server side using PHP in dynamic web development
- Understand PHP language constructs, data types, logic control, built-in functions
- Setup and configure MySQL, PHP, Apache, JavaScript, jQuery web server development environment
- Implement SQL language, JavaScript, Ajax, Jquery, PHP and CSS in the project
- Joomla Content Management System and Zend Framework

Pre-requisites:
Students should have experience developing applications with PHP, as well as using SQL to interface with a database. Good knowledge of HTML, JavaScript and DOM API is required.

Ch. No.	Chapter Name	Chapter Topics	Total Hours
1	OOPs with PHP/MySQL	OOPs concept with PHP and MySQL, Database Handling with OOPS, PHP Exception Handling	2
2	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 AJAX XML File, AJAX Form Validation, AJAX Chat, AJAX Suggest and Autocomplete AJAX Real-Time Charting with SVG, AJAX Grid, AJAX Drag and Drop	6

3	JQuery and JSON	Introduction JQuery, How JQuery Works and How it is Created. Using JQuery with PHP, Using JQuery with PHP and MySQL Playing With Elements, Hiding and Unhiding Images, Jquery UI, Ajax with jQuery Using XML and JSON, Introduction to JSON, Installation & Configuration JSON, Resource Types,JsonSerializable, JSON Functions:json_decode() json_encode()	7
4	JOOMLA (CMS)	Introducing the Joomla Content Management System, Obtaining and Installing Joomla,Taking a First Look at Joomla, Getting the Most from Site Configuration, Working with Content and Users, Managing Content Working with Editors and Media	12
		Employing Advanced Content Management Techniques, Working with the Menu System, Managing the Home Page of website, Managing Website Site's Users, Creating a Multilingual Website, Working with Components, Modules, and Plug-Ins	
		Using the Banner Manager, Working with the Contacts Component, Using the Newsfeed Component Using the Site Search Components, Using the Weblinks Component, Working with the Site Modules, Working with the Administrator Modules, Working with Plug-Ins	
		Customizing and Extending the System, Customizing the Appearance of Joomla, Customizing Joomla Functionality, Extending website, Overseeing Website Maintenance and Management, Keeping Site Secure and Up to Date, Managing Performance and Accessibility, Making a Site Search–Engine Friendly	
5	Zend Framework Introduction	Folder Structure, Anatomy of Zend Framework Application, Index.php as Single Access File Apache .htaccess, Controller, View	4
6	Zend Framework Action	Dynamic Content, URL Structure and Controller, URL Structure and Action, GET Parameters, Header and Footer	4
7	Zend Framework Database	Database Introduction, Creating Input Form, Inputting Data to Database Database access with Zend_Db, Zend_Db_Table, Zend_Db_Table_Row Inserting Expressions to a table, Creating List of Data, Creating Editing Form, Updating Data, Updating Data Use Update Query From Zend Framework, Deleting Data, Delete Query Style,Summarizing Action Controller	4
8	Zend Framework Registry	Setting and Reading Values, Storing Array Values, Working with Objects	4
9	Zend Framework Config	Using Array Configuration, Creating File Configuration, Using INI File Configuration, Using XML File Configuration	4
10	Zend Framework Login	Preparing Database, Creating Form Login, Creating Authentication, Fatal error, Protected Page, Creating Logout, Creating Switching for Front Page	4
11	Zend Framework Session	Session, Using Namespace, Accessing Session Data,Seeing All Values at Namespace, Locking and Unlocking Namespace, Automatic Expiration	4
TOTAL::			55

Learning Outcomes:
Upon successful completion of this course, a student should be able to:

- **Describe the Document Object Model and use the DOM to dynamically alter aspects of web pages via the use of JavaScript in an industry approved way.**
- **Create a basic page that uses JavaScript to make dynamic calls to server-side scripts via the XMLHttpRequest object.**
- **Describe the structure of XML and JSON data and explain the advantages and usage of each data format.**
- **Install and use a JavaScript/AJAX toolkit similar to JQuery when creating AJAX applications.**
- **Use JavaScript/AJAX to access common web application programming interfaces (APIs), similar to the Google API, to complete useful web site tasks**.

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 HolznerISBN:9780070223622**
2. **"Ajax, JavaScript and PHP" SamsTeachYourself Sams Publishing, Phil Ballard Michael Moncur ISBN:9780672329654**
3. **"The Official Joomla!™ Book" Jennifer Marriott Elin Waring, Addison WesleyPublishing**
4. **"Zend Framework 2.0 by Example Beginner's Guide"Krishna Shasankar V, Packt Publishing**

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 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**