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 – 2016
Teaching & Evaluation Scheme

Sr. No	Subject Code	Subject Name	Teaching Hours/Week				Credits	Evaluation Scheme/Semester							Total Marks
								Theory				Practical			
			Th	Tu	Pr	Total		Sessional Exam		University Exam		Internal		Uni.	
								Mks	Hrs	Mks	Hrs	Pr	TW	Pr	
2	5CS02WWF1	Website Frameworks-I	4	-	2	6	5	30	1.5	70	3	-	10	40	**150**

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.

Course Outline

Ch No	Chapter Name	Course Contents	Total Hours
1	Getting Started with CodeIgniter	1. Introduction to CodeIgniter, 2. Installing CodeIgniter, 3. Exploring the File Structure 4. The Configuration File,	5
2	Introducing Model View Controller (MVC)	1. About MVC, Working with Views, Model, Controller 2. Syntax Rules, Types of Files, Classes, Folders of CI 3. CodeIgniter URLs	5
3	Learning the Libraries	1. Calendar Class 2. Config. Class 3. Email class, 4. File Uploading Class 5. Form Validation Class 6. Loader Class 7. Output Class	5

		8. Session Class 9. Database Class	
4	Form Validation and Database Interaction	1. The form validation process 1.1 Contact form, Changes to the form view 2. Database interaction, Performing simple queries	5
5	Getting Started with Zend Framework	1. Introduction 2. features 3. installation 4. Model, View, Controller 5. Index.php as Single Access File	5
6	Building Your First Zend Framework Application	1. Creating a Zend Framework project 2. Project folder structure 3. Creating Zendcontroller and action 4. Zendlayout,	5
7	Creating a Communication Application	1. Working with forms 1.1 Understanding form basics 1.2 Creating form and form elements 1.3 Validating form input	5
8	Data Management	1. Database Introduction, Creating Input Form, Inputting 2. Data to Database 3. Database access with Zend_Db, Zend_Db_Table, Zend_Db_Table_Row 4. Inserting Expressions to a table, Creating List of Data, Creating Editing Form, Updating Data, Updating Data Use Update Query From Zend Framework, Deleting Data,	5
9	Getting Started with Magento	1. Overview of Magento 2. Various editions 3. History, Features 4. Installation 5. Back end and front end Overview	5
10	Categories and Attributes	1. About attributes 2. Creating own attributes, 3. About category, 3.1 creating new categories and its setting	5
11	Working with Products	1. Overview of product 1.2 types of products 2. creating a product and assigning various settings	5
		TOTAL	**55**

Learning Outcomes:

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

- Familiar with Codeigniter
- Familiar with Zend
- Familiar with Magento
- To develop small as well as large web application using php frameworks

Teaching Methodology:

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

Books Recommended:

1. "CodeIgniter for Rapid PHP Application Development" Packt Publishing LtdDavid Upton
   ISBN:978-1-847191-74-8
2. "Zend Framework" MC GrawHill, VikramVaswani
   ISBN:978-0-07-163940-8
3. "Magento" Packt Publishing LtdRobbertRavensbergen Sander Schoneville
   ISBN:978-1-78216-270-4

Reference Books:

1. "Mastering Magento Theme Design" Packt Publishing LtdAndreaSaccà
   ISBN: 978-1-78328-823-6
2. "Zend Framework 2.0 by Example Beginner's Guide" Packt Publishing LtdKrishnaShasankar V
    ISBN: 978-1-78216-192-9

Practical list:

1. Installation of codeigniter framework
2. Working with view
3. Working with controller
4. Working with codeigniter framework folder structure
5. Working with various classes
6. Installation of zend framework such as email class etc.
7. Working with form
8. How to run zend framework application
9. Working withzend framework folder structure
10. Write a zf command to create a project
11. Write a zf command to create a controller
12. Write a zf command to create a action
13. Write a zf command to create a form
14. Write a zf command to create a layout
15. Write a zf command to create a model
16. Develop simple zend application to print a message "Welcome to zend framework"
17. Develop a zend application to create a simple form
18. Develop a zend application to create your own layout
19. Develop a zend application to create a login form
20. Develop a zend application to create a form that is used to in insert the database record
21. Develop a zend application to create a form that is used to in update the database record