



C. U. Shah University, Wadhwan City

Faculty of Computer Science

Name of Program: Master of Science in Information Technology

(Web Technology)

Semester : III

W.e.f. June-2015

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	
1	5CS03WAP1	Advanced PHP Programming	4	-	-	4	4	30	1.5	70	3	-	-	-	100

### Objectives:

Students will leave the course understanding the Magento architecture, MVC and data models, how to work with Magento theme, modules and events.

**Pre-requisites:** Students must be familiar with developing in a WAMP environment. Familiarity with MVC structure.

### Course Outline:

Ch. No.	Chapter Name	Topics	Lect. (Hours)
1	Magento	About magento, History, Overview of Magento, Features	5
2	Magento Architecture	About Magento, Open source Software, Magento MVC Architecture, Extension, Modules, Block, Layout and theme, Magento folder and data structure, Installing magento	10
3	Administrative Interface	Login panel, various administrative interfaces – sales, catalog, customers, newsletter, CMS, System Managing multiple website stores	10
4	Products in Magento	About product, various settings of product, categories, product attributes, Types of product	5
5	Customers and order management	Customer settings, creating new customers, customer information, Order life cycle, invoices, cancelling and deleting orders,	5
6	Magento Theme	Theme design, File structure, Skin, Widgets, Creating theme	5
7	Magento Configuration and customization	Various configuration settings, theme, layout, theme elements, template	5
8	API, Modules and Events	About Magento API, Names, module namespace, creating module, event, event observer	10
		Total	55

**Teaching Methodology:**Revision, Paper Solving, Seminar, Expert Talk, MCQ Quiz, Viva Test, Programming Test

**Learning Outcomes:**

This course will introduce the new Magento developer to the Magento architecture. The student will review how Magento leverages MVC, Zend Framework and Object-oriented programming. The course will take the student will go through the process of Magento Rendering, Request Flow, Adminhtml, Database and EAV.

**Books Recommended:**

- 1, “*Magento PHP Developer's Guide*”, Allan MacGregor Packt Publishing
- 2, “*The Definitive Guide to Magento*”, Adam McCombs and Robert Banh , Apress

**Reference Books:**

- 1, “*Magento Beginner's Guide Second Edition*”, Robbert Ravensbergen Sander Schoneville, Packt Publishing
- 2, “*Mastering Magento*” Bret Williams packt Publishing