



Faculty of Computer Studies (FoCS)

Course Name: Web UI and Content Development

(UG/PG): PG

Number of Credits: 4

Level: 4

Learning Objective/Outcome (s): This course is designed to enable the student to learn modern Web UI Development technologies and Web Content Management tools.

Web UI Technologies: This part of the course is designed to cover the modern User Interface technologies related to the web. It covers Ajax and JQuery programming.

Web Content Management: This part of the course is designed to provide the student an in-depth understanding of content management systems so as to be able to create and host modern websites.

Pedagogy:

Class discussion followed by Practical
Case Study and Practical

Pre-learning: HTML, Java Script, Basic knowledge of programming, Networking essentials

Course Outline:

(A) Web UI Technologies

Sr.No.	Topic	Hours
1	Ajax XMLHTTPPrequestobjects Ajaxexamples AjaxandJSP AjaxandXML AjaxandJSON Performance	15
2	Jquery Eventcapturing JqueryandDOM JqueryUI JqueryandAjax	15

(B) Web Content Management

Sr.No.	Topic	Hours
1	Introduction: What is CMS? Types of CMS, CMS Architecture	1
2	CMS Technologies: LAMP stack, Web server (Apache), Database (MySQL) Scripting languages- HTML, CSS, Javascript, PHP	10
3	Case Study: Wordpress – Architecture, Modules, themes, Installation and Configuration Plug-ins and themes Best Practices	4
4	Case Study: Drupal Drupal Terminology, Architecture Installation and Configuration Modules and themes Data Abstraction Layer, Content Types – CCK, Views Best Practices	15
	Total	60

Books Recommended:

1. Head First Ajax A Brain-Friendly Guide By Rebecca Riordan
2. Head First jQuery: A Brain-Friendly Guide by Ryan Benedetti
3. Documentation available on drupal.org

Suggested Assessment/ Evaluation Methods:

Assignments
Presentation
Case Study

Benchmarked against similar courses in other national/ international universities /organizations

S. No.	Name of the Course	Name of University where it is offered
1.	Content Management System	Carnegie Mellon University
2	Content Management System	University of Pune
3	Web CMS	SICSR

