Integrated MCA II Semester 3

Subject Name: Software Project - 2 **Subject Code:** IMCA16312

Type of course: Project

Prerequisite (if any):

- HTML, JavaScript, CSS, Bootstrap, PHP and Database concepts.

List of Courses where this course will be prerequisite: NA

Rationale: The frameworks listed make developing a web application a lot quicker with a strong design in place.

Teaching and Examination Scheme:

TEACHING SCHEME				Theory Marks		Practical Marks		Total
L	T	P	C	TEE	CAT	TEP	CAP	
0	0	2	1	-	-	30	20	50

CAT: Continuous Assessment Theory comprised of CA1 and CA2 **CA1:** Continuous Assessment (assignments/projects/open book tests/closed book tests **CA2:** Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems **TEE:** Term End Examination **TEP:** Term End Practical Exam (Performance and viva on practical skills learned in course) **CAP:** Regular submission of Lab work/Quality of work submitted/Active participation in lab sessions/viva on practical skills learned in course

Suggested Frameworks: - Core PHP, Laravel, CodeIgniter, Symfony, and CakePHP etc.

Guidelines:

- It is recommended that the team should be of 2-3 students.
- It is mandatory that the project should be developed using Apache, MySQL and PHP, on Linux or Windows Platform.
- Use of a database is mandatory.
- Though use of AJAX and XML is not mandatory, their proper use will be appreciated.
- The projec' should be free from plagiarism of any kind.
- Project must have proper documentation.
- This may not be a live project.

- Coding standards should be followed meticu'ously. At the minimum, the code should be self-documented, modular, and should use the meaningful naming convention.
- Students may be asked to write the code related to the project during examination.

Minimum Expectations: Application must include CRUD, Master/Detail form, Transactions, Application Reports, Search (with Pagination).

Guidelines for Documentation:

- The project has to be well-documented in the form of a Project Report comprising of the relevant description of the project including design, data dictionary, screenshots, etc.
- Format: The student has to submit hard copy of the Project report in below specified format:
  - Print out should be taken on both sides of the page with single line spacing.
  - Use Times New Roman of size 12 for normal text.
  - A typical Table of content will be as follows.

TABLE OF CONTENTS

1. Introduction
   - 1.1. Proposed system and its Objectives
   - 1.2. Core Components
   - 1.3. Minimum and Maximum Software/Hardware requirements
   - 1.4. Advantages and Limitations of the Proposed System
2. Requirement Determination & Analysis
   - 2.1. Requirement Determination
   - 2.2. Targeted Users
3. System Design
   - 3.1. Use Case Diagram
   - 3.2. Class Diagram
   - 3.3. Activity Diagram
   - 3.4. Data Dictionary
4. Screen Shots
5. Proposed Enhancements
6. Conclusion
7. Bibliography

Reference Books:

Sr. No.	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1.	Sams Teach Yourself PHP, MySQL and Apache All in One	Julie C. Meloni	Pearson Education Sams publishing	2008	4th edition
2.	Open source web development with LAMP	James Lee , Brent Ware	Pearson Education ISBN-10 817758035 ISBN-13 978-8177580358	2005	-
3.	Professional LAMP: Linux, Apache, MySQL and PHP5 Web Development	Jason Gerner, Morgan Owens, Elizabeth Naramore, Matt Warden	WROX Publication ISBN: 978-0-471-79088-4	2005	-

Course Outcomes:

Sr. No.	CO Statement After learning this subject, students will be able to	Marks % Weightage
CO-1	Demonstrate a sound technical knowledge of their selected project topic	20
CO-2	Identify and formulate the problem definition	20
CO-3	Analyse the problem definition and develop the project using appropriate programming	20
CO-4	Compare and test the several existing solutions	20
CO-5	Demonstrate ability to work in teams	10
CO-6	Report and present the findings of the study conducted in the preferred domain.	10

Mapping with POs:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13
CO-1	1	3	3	3	3	0	1	2	1	2	3	3	0
CO-2	1	3	3	3	3	1	1	2	1	2	3	3	0
CO-3	0	3	3	3	3	1	1	2	2	2	3	3	0
CO-4	2	3	3	3	3	0	1	2	2	2	3	3	0
CO-5	0	1	3	3	3	1	1	2	3	2	3	3	0
CO-6	1	3	3	3	3	0	1	2	2	2	3	3	0
Rationale*													

Rationale*: Explaining why it is matching this particular program outcome

List of Open learning website: NA

List of Open-Source Software: NA

Major Equipment Needed: NA