Program :	**Diploma in Computer Engineering / Cyber Forensics and Information Security**
Course Code : **4137**	Course Title: **Web Programming Lab**
Semester : **4**	Credits: **2.5**
Course Category: **Program Core**	
Periods per week: **4 (L:1 T:0 P:3)**	Periods per semester: **60**

Course Objectives:

- Provide hands-on experience to develop dynamic websites.
- Expertise in connecting database to front end application

Course Prerequisites:

Topic	Course Code	Course Name	Semester
HTML, CSS & JAVASCRIPT		Web Technology Lab	3
Basic Knowledge of SQL and its usage		Database Management System	3

Course Outcomes :

On completion of the course, the student will be able to:

COn	Description	Duration (Hours)	Cognitive Level
CO1	Implement dynamic web pages using PHP	17	Applying
CO2	Develop web applications in PHP using cookie, session, file and database.	18	Applying
CO3	Make use of PHP framework in developing web applications	11	Applying
CO4	Design and develop a complete database driven multi tiered web application	10	Applying
	Lab Exam	4	

CO – PO Mapping

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	3			3			
CO2	3			3			
CO3	3			3			
CO4	3	3	3	3	3	3	3

3-Strongly mapped, 2-Moderately mapped, 1-Weakly mapped

Course Outline:

Module Outcomes	Name of Experiment	Duration (Hours)	Cognitive Level
CO1	**Implement dynamic web pages using PHP**		
M1.01	Develop simple web applications using control structures in PHP	3L + 5P	Applying
M1.02	Use arrays to develop web applications	2L + 2P	Applying
M1.03	Build Data Retrieval Form using PHP	2L + 3P	Applying
CO2	**Develop web applications in PHP using cookie, session, file and database.**		
M2.01	Implement session & cookie management using PHP	1L + 3P	Applying
M2.02	Implement File Handling in PHP	1L + 3P	Applying
M2.03	Illustrate database and table creation using web based database administration tools	1L + 1P	Understanding
M2.04	Develop web pages for data handling using PHP (Insert, Delete and Update)	2L + 6P	Applying
	Lab Exam I	2	
CO3	**Make use of PHP framework in developing web applications**		
M3.01	Design and develop web application using framework (WordPress/Joomla/ laravel)	3L + 8P	Applying

CO4	**Design and develop a complete database driven multi tiered web application**			
M4.01	Open Ended Experiments** - Design and develop a complete database driven multi tiered web application using HTML, CSS, JavaScript, PHP & MySQL	10	Applying	
	Lab Exam II	2		

**** - Suggested Open Ended Experiments**

(Not for End Semester Examination but compulsory to be included in Continuous Internal Evaluation. Students can do open ended experiments as a group of 2-3. There is no duplication in experiments between groups. Open ended experiments should include the concepts of html, CSS & JavaScript)

Example :

1) Students Attendance Management System

2) Banking Application

3) Blood Bank Management

4) Library Management System

Text / Reference:

T/R	Book Title/Author
T1	Robert W Sebesta, Programming with World Wide Web , 7th ed., Pearson Education ,New Delhi, 2009
R1	Welling , PHP and MySQL Web Development, Fourth Edition, Pearson Education
R2	Sams teach Yourself PHP in 24 hours – Zandstra – (Pearson Education)-Third Edition
R3	Beginning Web Programming with HTML, XHTML, CSS & JavaScript – John Duckett (Wiley DreamTech)-Second Edition

Online Resources:

Sl.No	Website Link
1	http://www.tutorialspoint.com
2	http://www.w3schools.com
3	http://php.net
4	http://www.mysql.com