Course: 305: **Open Source Web Based Programming**

Course Code	305								
Course Title	Open Source Web Based Programming								
Credit	4								
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Teaching per Week	4 Hrs.								
Minimum weeks/	15 (Including Class work, examination, preparation, holidays etc.)								
Semester									
Review / Revision	June 2021								
Purpose of Course	This course helps students to understand fundamentals of Open Source web								
	based Programming. The course also imparts students learning about Open								
	source web based scripting language PHP and Mysql database. It also includes								
Course Objective	MVC or Three tier architecture of web based programming.								
Course Objective	Student will learn fundamentals and advance topics of Open source Web								
Course Outcome	technology CO1 : Explain students the fundamental as well as Advanced aspects of the Open								
Course Outcome									
	Source Web based Technology. CO2: Train students about react JS and difference between React JS and React Native. CO3: Train students to understand MVC structure and it's benefits. CO4: Explain and train students to deal with possible problem while developing websites and it's solution. CO5: Expose the students with the analysis and development process of Websites.								
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	CO6 : After studying the course, students will be able to understand how Open source web technology works. They will also be able to create database driven								
	Professional Websites.						u		
		1	1	DCO2	DCO4	DCOF	DCOC	DCO7	DCOO
Mapping between COs with PSOs	CO1	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8
P305	CO2								
	CO2								
	CO4								
	CO5								
	CO6								
Dra raquisita		dae of UT	.V11 apd C	<u> </u>					
Pre-requisite			ML and S		\A/ - - -	d D			
Course Content	Unit 1: Introduction to Open source Web based Programming 1.1 Introduction to PHP & MySql								
			llation of						
			uage Cha			ures			
		_	_				es Looni	ng and Fr	ror
	1.4 Operators and Variables, Control Structures, Looping and Error handling								
	1.5 PHP functions 1.5.1 String Functions 1.5.2 Array Functions 1.5.3 Mathematical Functions								
	1.5.4 Graphics Library (GD Support)1.5.6 Date and Time Functions1.5.7 Misc. Function								
			manage		-				
		-	ct Oriente)			
	1.7.1 Classes and Objects 1.7.2 Use of constructors 1.7.3 Serialization								
	1.7.4 Inheritance								
	Unit 2 ·	Unit 2 : MySQL database server							
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	2.1 Configuring the MySQL Server					
	2.2 MySQL Tables, Displaying MySQL					
	Database ,Adding and removing user access					
	2.3 Database connection and data processing functions					
	2.5 Database connection and data processing functions					
	Unit 3 : Advance PHP					
	3.1 Ajax Basics					
	3.1.1 HTTP Request and Response Fundamentals					
	3.1.2 The XMLHttpRequest Object XMLHttpRequest Methods					
	3.1.3 XMLHttpRequest Properties					
	3.1.4 Cross-Browser Usage Sending a Request to the Server					
	3.1.5 PHP and Ajax Client-Driven Communication 3.1.6 Server-Side Processing Expanding and Contracting Content					
	3.1.7 Form Validation					
	3.1.8 Ajax-Based Database Querying					
	3.2 XML					
	3.3 Web services					
	Unit 4 : MVC					
	4.1 Introduction to MVC					
	4.2 Introduction to Laravel, Architecture Concepts					
	4.3 Routing					
	4.4 Middleware					
	4.5 Controllers					
	4.6 Request & Response 4.7 View					
	4.8 URL generation					
	4.9 Validation					
	4.10 Session & Cookie					
	4.11 Form & File uploading					
	4.12 Error Handling					
	4.13 Security					
	4.14 Database					
	Unit 5 : Advance Concepts of MVC					
	5.1 Blade Templates					
	5.2 Mail					
	5.3 Authentication					
	5.4 Authorization					
	5.5 Encryption					
Reference Books	1. Beginning PHP, Apache, MySQL Web Development - Elizabeth Naramore, Jason					
	Gerner, Yann Le Scouarnec, Jeremy Stolz, Michael K. Glass, Gary Mailer – Wrox Publication					
	2. Professional PHP Programming - Jesus Castagnetto ,Wrox Press Ltd					
	3. Beginning PHP and MySQL: From Novice to Professional - W. Jason Gilmore,					
	Apress					
	4. Php: The Complete Reference - Steven Holzner, Tata Mcgraw Hill Education					
	Private Limited					
	5. AJAX and PHP: Building Responsive Web Applications - Bogdan Brinzarea,					
	CristianDarie packtpub					
	6. Php manual – www. Php.com					
	7. Beginning Laravel Build Websites with Laravel 5.8 - Sanjib Sinha · 2019 - Apress					
	8. Laravel The Ultimate Beginner's Guide to Learn Laravel Step by Step, 2 nd Edition					
Teaching	- Mem Lnc, Rufus Stewart Class work, Discussion, Self-Study, Seminars and/or Assignment					
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Methodology	class work, biseassion, sen staay, seminars ana, or resignment					

Evaluation Method	30% Internal assessment is based on class attendance, participation, class test,	
	quiz, assignment, seminar, internal examination etc.	
	70% assessment is based on semester end University External examination	