

Branch Name:	IMCA
Program Code:	CS301
Course Name:	1CS3010302T
Course Code:	Web Design Technology
Pre-requisite Course:	Programming Skills

Course Objectives:

1. Able to install and configure PHP, apache and MySQL.
2. Ability to create form validation, send and receive the data on the web in php.
3. Get a good quality understanding of web applications.

Teaching and Examination Scheme:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture (L)	Tutorial (T)	Practical (P)	Credit	Theory (Marks)		Practical (Marks)		Total (Marks)
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
4	-	-	4	60	40	-	-	100

Course Contents:

Unit No	Topic	Total Hours	Weightage (%)
1	<p>Introduction</p> <ul style="list-style-type: none"> • Web platform/Framework, • Web Resources, • Web Server, • PHP Overview, • Explain basic of PHP.ini <p>Building Block</p> <ul style="list-style-type: none"> • Installation of PHP • PHP code standard • Echo and print • Sending text to browser • Adding comment to script • Variables, • Data types, • Operators and expressions, • Constants • String • Basic Debugging Techniques • Embedding html in php • Embedding php in html 	11	25
2	<p>Conditional Statements:</p> <ul style="list-style-type: none"> • If statement, • if ... else, • nested if... Else, • switch statement. <p>Looping:</p> <ul style="list-style-type: none"> • for loop, • while loop, • do while statement, • for each loop statement. • Mixing decision and looping with html • Doing repetitive task with looping 	11	25

3	<p>Working with Functions</p> <ul style="list-style-type: none"> ● What is a function, ● Calling function, ● Defining a function, ● Returning values from User defined functions, ● Passing parameter to function ● Global variable ● Understanding Variable scope, ● Call by value and call by reference ● Using include(), include_once(), require(), require_once() ● Saving state between function calls with the static Statement, ● More about arguments, ● Built in php function <p>Working with Arrays</p> <ul style="list-style-type: none"> ● Creating arrays, ● Numerically indexed array ● Associative array ● Processing array with loop ● Counting and sorting array elements ● Some array related functions, ● Formatting Strings with PHP, ● Manipulating Strings with PHP, 	11	25
4	<p>Working with Forms</p> <ul style="list-style-type: none"> ● Creating a Simple Input Form, ● Accessing Form Input with User-Defined Arrays, ● Combining HTML and PHP Code on a Single Page, ● Retrieving form data with \$_POST ● Retrieving form data with \$_GET ● Retrieving form data with \$_REQUEST ● Preserving data in form input ● Using Hidden Fields to Save State, ● Redirecting the User, ● Sending Mail on form Submission, ● Working with File Uploads <p>Creating Web Application</p> <ul style="list-style-type: none"> ● Creating template ● Use multiple external files ● Use bootstrap, Js in template 	11	25

Text Books:

1. Learning PHP, MySQL & JavaScript 5th edition Robin Nixon
2. Headfirst PHP & MySQL 1st edition Lynn Beighley
3. Larry Ullman, PHP for Web, Fifth Edition, Pearson
4. PHP and MySQL Web Development 5th edition Luke Welling

Reference Books:

1. Teach yourself PHP, MySQL and Apache All in One , 5th Edition
2. Learning PHP, MySQL, books by ‘ O’reilly Press.
3. PHP: The Complete Reference , Steven Holzner, McGraw-Hill.
4. Head First PHP & MySQL – by Lynn Beighley & Michael Morrison.
5. PHP: A Beginner's Guide – by Vikram Vaswani.

List of Open Source Software/learning website:

<https://www.geeksforgeeks.org>
<https://www.w3schools.com>
<https://www.codecademy.com>
<https://www.tutorialspoint.com>

Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

CLO	Description	Bloom's Taxonomy Level
CLO1	Familiar with creating of the server side scripting using PHP	2 Understanding 3 Applying,
CLO2	Build Dynamic web pages using server-side PHP programming	3 Applying, 6 Creating
CLO3	Aware about the software tool and process like Eclipse IDE, Sublime text, visual studio code	2 Understanding,
CLO4	Design responsive form with different input type elements using bootstrap	3 Applying,
CLO5	build a custom solution that catches PHP errors and exceptions and shows a proper error page for them	6 Creating
CLO6	Creating dynamic web template that use multiple files	3 Applying, 6 Creating

Mapping of CLOs with Pos & PSOs

Course Learning Outcomes	Program Outcomes(POs)												Program Specific Outcomes(PSOs)	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CLO1	L	M	M	H	L		M	L	M		L	M	M	L
CLO2	M	H	M	L	H		M	L	M		H	M	H	H
CLO3	L	M	L		L	H	L		H		L	M	L	M
CLO4	M	H	M	L	H		H	M	M		L	M	H	H
CLO5	H	L	H	M	M		M	L	M		M	L	H	M
CLO6	H	M	M	M	L		M	M	L	H	L	M	M	H

H:High, M:Medium, L:Low