

<b>Branch Name:</b>	IMCA
<b>Program Code:</b>	CS301
<b>Course Name:</b>	1CS3010404T
<b>Course Code:</b>	Advance Web Technology
<b>Pre-requisite Course:</b>	Programming Skills

### Course Objectives:

1. Extend proficiency in development of web applications.
2. Able to carry out the study of web page designing and database fundamentals.
3. Able to design the web applications with backend

### 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><b>Working with files:</b></p> <ul style="list-style-type: none"> <li>• What is a file?</li> <li>• Mode of file and purpose</li> <li>• Creating and Deleting Files,</li> <li>• Opening a File for Writing,</li> <li>• Reading or Appending,</li> <li>• Reading from files validating files</li> </ul> <p><b>Uses of Java script</b></p> <ul style="list-style-type: none"> <li>• Attaching external JavaScript,</li> <li>• validating form fields using JavaScript,</li> <li>• extending functionalities of form fields using JavaScript</li> <li>• Handling user input, processing form data</li> <li>• Form elements and objects, input fields, selection lists, submitting and resetting forms</li> </ul>	11	25
2	<p><b>Basic SQL Command:</b></p> <ul style="list-style-type: none"> <li>• Creation of table, Insertion of rows,</li> <li>• Select command,</li> <li>• Update &amp; Delete command,</li> <li>• Store procedure,</li> <li>• Join</li> </ul> <p><b>Working with database:</b></p> <ul style="list-style-type: none"> <li>• Introduction to PHP My admin panel</li> <li>• PHP database creation</li> <li>• Understanding table structure</li> <li>• Learning the MySQL Data Types,</li> <li>• Interacting with MySQL using PHP,</li> <li>• Connecting to MySQL with PHP using PDO,</li> <li>• Retrieving query result,</li> <li>• Counting return records,</li> </ul>	13	25

	<ul style="list-style-type: none"> <li>Update , delete, insert and view the records using PHP.</li> </ul>		
3	<p><b>Working with Regular Expression:</b></p> <ul style="list-style-type: none"> <li>Introduction,</li> <li>Standard character class,</li> <li>Quantifier,</li> <li>Boundary maker character class,</li> <li>Replace the string using pattern,</li> <li>Split a string.</li> </ul> <p><b>Working with cookie and session:</b> Introducing Cookies,</p> <ul style="list-style-type: none"> <li>Setting a Cookie with PHP,</li> <li>Deleting a Cookie with PHP Session Function(s) Overview,</li> <li>Starting a Session,</li> <li>Working with Session Variables,</li> <li>Passing Session IDs in the Query String,</li> <li>Destroying Sessions and Unsettling Variables,</li> <li>Using Sessions in an Environment with Registered Users Including Files with include(),</li> <li>Session objectives.</li> <li></li> </ul>	12	25
4	<p><b>Object Oriented PHP</b></p> <ul style="list-style-type: none"> <li>Building a Class and object,</li> <li>Constructors and Destructors,</li> <li>Working with Properties and Functions,</li> <li>Private, Protected, Public modifiers,</li> <li>Inheritance,</li> <li>Interfaces,</li> <li>Abstract class,</li> <li>Static method,</li> <li>Static property,</li> <li>Namespaces.</li> <li>CRUD (Create/Read/Delete/Update) using Class and Object</li> </ul>	8	25

**Text Books:**

1. Learning PHP, MySQL & JavaScript 5th edition Robin Nixon
2. Headfirst PHP & MySQL 1st edition Lynn Beighley
3. PHP and MySQL Web Development 5th edition Luke Welling
4. Jeremy McPeak, Paul Wilton, Beginning JavaScript Wrox Publication

**Reference Books:**

1. Teach yourself PHP, MySQL and Apache All in One , 5th Edition
2. Learning PHP, MySQL, books by ‘ O’ riley Press.
3. PHP: The Complete Reference , Steven Holzner, McGraw-Hill.
4. Tim Converse and Joyce Park, PHP6 and MySQL Bible –Steve Suehring, Wiley India
5. Head First PHP& MySQL by Lynn Beighley, Michael Morrison, O’Reilly Media

**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	Design and develop fully functional dynamic web applications using the concepts of PHP, MySQL,	2 Understanding 3 Applying,
CLO2	Build Dynamic web pages using server-side PHP programming with Database Connectivity	3 Applying, 6 Creating
CLO3	build website that perform CRUD operation for creating, reading, updating, and deleting data and will show on website	3 Applying, 6 Creating
CLO4	Develop program for creating database and perform various crud operation using php and mysql.	3 Applying, 6 Creating
CLO5	Create and execute dynamic websites using the newest technical knowledge and a strong sense of template design.	3 Applying, 6 Creating
CLO6	Use the methods and resources for efficient website analysis and planning.	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	M	M	H	L	M			M	L		M	M	M	L
CLO2	H	H	H	L	H		L	L	M		M	M	H	H
CLO3		L	L		H		L		L		L	L	L	M
CLO4	H	H	H	L	H		L	L	M		M	M	H	H
CLO5	L	L	H	L	M		L	L	L		M	L	H	M
CLO6	M	M	H	M	H		L	M	L		M	M	M	H

**H:High, M:Medium, L:Low**