LOK JAGRUTI KENDRA UNIVERSITY
Syllabus for two Years
School of Computer Applications, Master of Computer Applications (MCA)
Semester - 1

Course Code	040110108			
Category	Core Subject			
Course Title	Web Development Technology Using PHP			
Scheme and Credits	Theory	Tutorial	Lab	Credits
	0	1	4	3
Pre-requisites (if any)	Basic Knowledge of DBMS.			

1. Course Objectives:

1	To understand basic structure of Web page and tags of HTML.
2	To understand how to plan and create web pages of web sites.
3	To understand structure of web pages for maintenance.
4	To understand how to enhance look and feel using internal, external and inline Cascading Style Sheet (CSS).
5	To be able to create a web-based application using PHP, MySQL, and Apache.
6	To learn MySQL database integration with web applications.
7	To learn and store information on client and server using cookie and session in PHP.
8	To learn how to design and develop dynamic web application using AJAX.

2. Course contents:

Unit	Course Contents	Weightage
Unit I	**Introduction to HTML & CSS** **HTML** **Setting Up the Document Structure :** Creating the HTML, Head, and Body Sections, Creating Paragraphs and Line Breaks , Specifying a Page Title and Meta tags **Formatting Text by Using Tags** : Creating Headings , Applying Bold and Italic Formatting , Applying Superscript and Subscript Formatting , Using Preformatted Text , Formatting a Block Quotation **Using Lists and Backgrounds :** Creating Bulleted and Numbered Lists , Nesting Lists , Changing the Bullet or Number Character , Specifying the Start of a Number List, Creating Definition Lists ,Inserting Special Characters, Inserting Horizontal Lines, Choosing Background and Foreground Colours, Specifying Colours, Applying a Background Colour, Applying a Foreground Colour , Specifying a Background Image File **Creating Hyperlinks and Anchors** : Hyper linking to a Web Page , Using Partial Paths and Filenames, Using Relative and Absolute Paths ,	20%

	Setting a Target Window, Hyper linking to an E-Mail Address, Creating and Hyper linking to Anchors, Hyper linking to Other Content **Creating User Forms :** Creating a Basic Form, Creating a Text Box, Special Field Types for E-Mail and Web Addresses, Creating a Text Area, Creating a Submit or Clear Button, Adding Default or Placeholder Text, Creating Check Boxes and Option Buttons, Creating Lists, Additional Input Types in HTML5 **CSS** **Introduction to Style Sheets** : Understanding Styles, Constructing Style Rules, Creating Styles for Nested Tags, Creating Classes and IDs for Applying Styles, Applying Styles to Hyperlinks, Creating and Linking to External Style Sheets **Formatting Text by Using Style Sheets :** Specifying a Font Family, Specifying a Font Size and Color, Applying Bold and Italics, Applying Strikethrough and Underlining, Creating Inline Spans, Adjusting Spacing Between Letters **Formatting Paragraphs by Using Style Sheets :** Indenting Paragraphs, Applying a Border to a Paragraph , Specifying a Border Style, Setting Border Padding, Specifying Border Width and Colour, Formatting Border Sides Individually , Setting All Border Attributes at Once , Specifying the Horizontal Alignment of a Paragraph , Specifying Vertical Space within a Paragraph	

Unit II	**Introduction to PHP**
	Installation:
	Setting up environment WAMP server and MySQL, php.ini basics
	Overview of PHP
	   Setting up a PHP page
	   The phpinfo() function
	   Learning basic syntax
	   Echoing HTML output to the browser
	   The importance of comments
	 The Building Blocks of PHP
	   Variables
	   Data types
	   Operator and Expressions
	   Constants
	Flow Control in PHP
	   Switching Flow
	   Loops
	Working with Functions
	   Defining Function, Calling Function,
	   Returning value from user defined function
	   Variable scope
	   More about arguments
		20%

Unit III	**Working with - Strings, Dates and Time function**	20%
	Formatting String with PHP	
	Investing String in PHP	
	Manipulating String with PHP	
	Date and Time function in PHP	
	Working with Arrays	
	What Is an Array? Creating an Array,	
	Adding Items to an Array, Accessing Array Elements	
	Working with Form:	
	Creating a simple input form,	
	Accessing Form Input with user-defined Array	
	Redirecting the user	
Unit IV	**Cookies and Sessions:**	20%
	Introduction to cookie	
	Setting a cookie, deleting a cookies	
	Session function overview	
	Starting a session, working with session variables,	
	Passing session ids in a query string,	
	Destroy a session	
	Getting PHP to connect toMySQL	
	Connecting to MySQL with PHP	
	Using Select, Insert, Update and DeleteQuerying MySQL	
	Returning results Interpreting the returned array	
	File uploading and downloading	
	Upload File and image and store data in database, Download Data form Database into Excel, Word and PDF	
Unit V	**Integrating JavaScript with PHP, AJAX**	20%
	JavaScript	
	Variable and type, Operator	
	Iterating with for-in	
	Functional programming	
	Function arguments	
	AJAX:	
	Exploring AJAX, AJAX Web Application Model	
	How AJAX works? Creating a simple AJAX Application.	
	Exploring interactions between AJAX and PHP	
	Validating Fields using AJAX and PHP	
	Retrieving data from a Database using PHP and AJAX	

Project Guideline

Sr. No.	Concept	Weightage
1	**Content Management**	30%
2	**E-commerce**	40%
3	**Custom Plugin**	30%

Reference Books :

1) PHP, MySQl and Apache by Julie C. Meloni, 4thedition, Pearson publication.

2) PHP and MySQl web development by Luke Welling and Laura Thomson, 5th edition, Pearson publication

3) Professional Web 2.0 programming using XHTML, CSS, Javascript and AJAX by Eric Van Der Vlist, Danny Ayers, Erik Bruchez, Joe Fawcett, Alessandro Vernet, Wrox publication

Reference Links:

1) For HTML :- https://www.w3schools.com/html/default.asp
2) For CSS :- https://www.w3schools.com/css/default.asp
3) For Java Script :- https://www.w3schools.com/js/default.asp
4) For PHP :- https://www.w3schools.com/php/default.asp