C. U. SHAH UNIVERSITY,WADHWAN CITY.

Faculty of: **Computer Science**
Course: **Master of Computer Applications**
Semester**: II**
Subject Code**: 5CS02CPH1**
Subject Name: **PHP Programming**

Sr. No	Subject Code	Subject Name	Teaching hours/ Week			Credit hours	Credit Points	Evaluation Scheme/ Semester								Total
								Theory				Practical				
								Internal Assessment		End Semester Exams		Internal Assessment		End Semester Exams		
			Th	Tu	Pr			Marks	Duration	Marks	Duration	Marks	Duration	Marks	Duration	
3	5CS02CPH1	PHP Programming	4	--	4	8	6	30	1½	70	2½	--	--	50	1½	150

Objectives
- The internet has drastically changed the way we communicate. As web technology dissolves the world's borders, a new "global community" has emerged.
- The course will focus on methods of using interconnected networks to effectively distribute text and information.
- Students will learn and implement HTML to construct a website with consideration to course topics.
- We seek an advanced mastery of web-development techniques that use databases to create content—HTML form objects, database connections, and server-side programming. We will use open-source MySQL as our database, structured query language (SQL), and PHP for programming.

Prerequisites
- The course is for advanced students with career or program-related needs for Web applications training.
- Students should be familiar with Windows operating systems and with technology for static web pages

Course Outline

Sr. No.	Course Contents	Hours
1	**Introduction to HTML & JAVASCRIPT** Introduction to HTML and tags - html, head, body, table and styling. Introduction to Javascript, Features, Writing Methods in HTML, Data Types, Variable Creations, Array, Operators, Conditional Checking, Looping Structures, UDF, Dialog Boxes, Built-In Objects (String, Math, Date), Cookies.	**08**

2	**Introduction to PHP** Introduction to PHP, Features, Installation of IIS, Variable Declaration (Static, Global), Operators and Expressions, Decision Making, Looping Structures, Arrays, UDF (argument function, default function, return function), Variable Functions (Gettype, settype, intval, print_r, strval , floatval, isset, unset) String Functions, Math Functions, Date Functions, Array Functions, Miscellaneous Functions, File Handling Functions.		08
3	**Component of PHP** PHP Regular Expression, Cookies, Session, GD Library		05
4	**XML with PHP** Introduction to XML, XML Document Structure, Creating XML File, Root and Child Node concept, XML Elements and Attributes, The SimpleXML Extension.		05
5	**Database Programming** Introduction to MySQL (Using PHP MyAdmin), PHP MySQL Connectivity, Basic Connection Functions, Handling Server Errors, Creating Database, Tables, Insert Data into Tables, Retrieving data from MySQL, Retrieving Fields		06
6	**Object Oriented Programming** Introduction to OOP, Classes, Objects, Inheritance, Constructor, Serialized Object, Overloading, Encapsulation		08
7	**AJAX with PHP** Introduction to AJAX, Server Side Scripting Technology, Request and Response Concept, Creating Web Page with AJAX, AJAX with Database		08
		Total hours	48

PRACTICAL LIST:

1.	Write a JavaScript to convert Celsius to Fahrenheit.
2.	Write a JavaScript program to print two lines in alert box Hello Hi
3.	Write a JavaScript that gets three numbers from user and print minimum and maximum number using conditional operator.

4.	Write a JavaScript program to print following pyramids:
	
	`* * * * *` `1`
	 `* * * *` `1 2 1`
	  `* * *` `1  2  3 2 1`
	   `* *` `………………………`
	    `*`
	    `*`
	   `* *`
	  `* * *`
	 `* * * *`
	`* * * * *`

5.	Write a JavaScript that performs the addition of given digits upto the total is single digit. For example, the given number is 1247 then it should display the answer 5. 1+2+4+7 =14==>1+4=5
6.	Write a JavaScript using cookies print how many times the page is visited.
7.	Write a JavaScript that creates a clock with two radio buttons ON and OFF. When ON button is selected the clock should start working and when OFF is selected the clock stops working
8.	Write a PHP program that gets character from user and determine whether it is uppercase character

	or lowercase character.
9.	Write a PHP program that gets character from user and determine whether it is character or number or whitespace or special using regular expression
10.	Write a PHP program that takes two arrays from user and then swaps two arrays as given below without using third variable. Eg: array1: 1, 2, 3, 4 Array2: 6,7, 8, 9,10 Swapping: Array1: 6,7,8,9 Array2: 1,2,3,4,10
11.	Write a PHP program to check whether given number is prime or not, even or odd and palindrom or not using concept of dynamic function call
12.	Write a PHP program that takes a string as input and prints the output as given below. The string should be given in alphabetical order I/P: aaaabbbccdddd O/P: a4b3c2d4
13.	Write a PHP program that takes input as a single word in capital letters and the output should be as follow: I/P: THE O/P the The tHe thE
14.	Write a PHP program that counts digits of given number and also reverses the given number using recursion concept.
15.	Write a PHP program that creates a database application for insert and display records
16.	Write a PHP program that creates database application for insert, update, delete, search and navigation of records using ajax(Address booklet)
17.	Write a PHP program that accepts a string from user and displays the occurrence of each character in given string using ajax and php.
18.	Write a PHP program that accepts number from user and determine whether number is even or odd without using conditional statements and using recursion concept.
19.	Write a PHP program that converts given decimal number into binary and binary number into decimal using ajax concept and radio button
20.	Write a PHP program that takes a number from user and determine how many 2 occurs upto the given number..

Learning Outcomes:
- Upon completion of this course, the student will be able to:
- Write server-side scripts in the PHP language that process data from online forms and access MySQL databases to create dynamic Web pages.
- Design and create 3-tier Web applications using PHP and MySQL.

Teaching & Learning Methodology:
- Lecture method using standard teaching aids.
- Solving term assignments in tutorials.

Books Recommended:
1. "Html, Dhtml, Javascript, Perl Cgi", **Ivan Byros**, Bpb Publication
2. "PHP and MySQL Web Development—Fourth Edition", **Luke Welling and Laura Thomson**. Addison-Wesley.
3. "Programming with Java", **Bhave**, Pearson Education
4. "PHP for the Web: Visual QuickStart Guide", **Ullman**, Pearson Education