

B.C.A. (Honours) & B.C.A. (Honours with Research) (Semester - 1 and Semester - 2) Saurashtra University To be effective from June – 2023

CS-09: WEB PROGRAMMING

Objectives:

- To create dynamic website / web based applications using PHP MySQL Database.
- Able to develop website with the use of jQuery, AJAX and JSON.
- To become familiar with OOPs concept.

Prerequisites: Basic knowledge of Programming

Unit No.	Topic	Detail
1	PHP Basic	 Introduction to PHP PHP configuration in IIS & Apache Web server Understanding of PHP.INI file Understanding of PHP .htaccess file PHP Variable Static & global variable GET & POST method PHP Operator Conditional Structure & Looping Structure Array User Defined Functions: argument function default argument variable function return function Variable Length Argument Function func_num_args func_get_arg, func_get_args Built in Functions Variable Functions String Function Math Function Date Function Array Function Miscellaneous Function File handling Function
2	Handling Form, Session Tracking & PHP Components	 Handling form with GET & POST Cookies Session Server variable PHP Components



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		 PHP GD Library PHP Regular expression Uploading file Sending mail
	AJAX & JSON	 What is AJAX? PHP with AJAX MySql with AJAX What is JQuery AJAX JQuery AJAX with PHP Introduction to JSON Installation & Configuration Resource Types JsonSerializable JSON Functions: json_decode, json_encode
3	Introduction of SQL	 Working with MySQL using PhpMyAdmin SQL DML Statement (Insert, Update, Select, Delete) Command PHP-MySQLi Connectivity PHP-MySQLi Functions mysqli_connect, mysqli_close,mysqli_error, msyqli_errno, mysqli_select_db, mysqli_query, mysqli_fetch_array, mysqli_num_Rows, mysqli_affe cted_Rows, mysqli_fetch_assoc, mysqli_fetch_field, mysqli_fetch_object,mysqli_fetch_row, mysqli_insert_id, mysqli_num_fields, mysqli_data_seek
4	jQuery	 What is jQuery? jQuery Syntax jQuery Selector Element Selector id Selector id Selector jQuery Events: Click, dbclick, keypress, keydown, keyup, submit, change, focus, blur, load, resize, scroll, unlode jQuery Effects: hide show, fade, slide jQuery Methods: css, height, width, innerWidth, innerHeight, outerWidth, outerHeight, html, text, append, prepend, after, before, addClass, removeClass, toggleClass, remove, empty
5	ООР	 Concept of OOP Class Object Property Visibility

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	 Constructor, Destructor
	o Inheritance
	Scope Resolution Operator (::)
	 Autoloading Classes
	 Class Constants
•	Mysql Database handling with oop (insert, update, select, delete

Seminar - 5 Lectures
Expert Talk - 5 Lectures
Test - 5 Lectures
Total Lectures: 60+15=75

Reference Books:

- 1. Modern PHP: New Features and Good Practices by Josh Lockhart (ORELLY)
- 2. PHP Cookbook: Solutions & Examples for PHP Programmers by David Sklar and Adam Trachtenberg (ORELLY)
- 3. Programming PHP by Kevin Tatroe and Peter MacIntyre ORELLY)
- 4. PHP for the Web: Visual QuickStart Guide (4th Edition) by Larry Ullman (Peachpit Press)

Course Outcome:

- Able to Understand Creation of dynamic website / web-based applications using PHP -MySQL Database.
- Able to Understand development of website with the use of jQuery, AJAX and JSON.
- Able to Understand practical and real-life examples of OOP.

Additional Topics (Not to be asked in examination):

Student should be aware of followings

- Case Study
- Uses and Advantages of CMS
- Wordpress [Introduction & Installation]
- Joomla [Introduction & Installation]
- Magento [Introduction & Installation]