

CS – 08 : Web programming using PHP

Objective:

- To learn web programming & Learn to develop website using PHP

Unit: 1

Web Programming

- Static and Dynamic Web
- Client side & Server side Scripting
- Introduction to other Server side languages
- Webserver (IIS & Apache)
- Web Hosting, Virtual Host, Multi-Homing
- Distributed Web Server Overview,

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 variables
- GET & POST method
- PHP Operators
- Conditional Structure & Looping Structure
- Array

Unit: 2

PHP Function

- **User Defined Functions:**
 - argument function
 - default argument function
 - variable function
 - return function
- **Variable Length Argument Functions:**
func_num_args, func_get_arg, func_get_args
- **Variable Functions:**
gettype, settype, isset, unset, strval, floatval, intval, print_r
- **String Functions:**
chr, ord, strtolower, strtoupper, strlen, ltrim, rtrim, trim, substr, strcmp, strcasecmp, strpos, strrpos, strstr, stristr, str_replace, strrev, echo, print, explode, implode, join, md5, str_split, str_shuffle, ucfirst, ucwords.
- **Math Functions:**
abs, ceil, floor, round, fmod, min, max, pow, sqrt, rand, bindec, decbin, hexdec, dechex, is_finite, is_infinite
- **Date Functions:**
date, getdate, setdate, checkdate, time, mktime, date_add, date_create, date_format, gmdate, localtime, strftime

- **Array Functions:**
count, list, in_array, current, next, previous, end, each, sort, rsort, assort, arsort, array_merge, array_reverse, array_diff, array_unique, array_key_exists, array_push, array_pop, array_search
- **Miscellaneous Functions:**
define, constant, include, require, header, die, exit
- **File Handling Functions:**
fopen, fread, fwrite, fclose, file_exists, is_readable, is_writable, fgets, fgetc, file, file_get_contents, fputs, file_put_contents, ftell, fseek, rewind, copy, unlink, rename, move_uploaded_file.

Unit: 3

Handling Form, Session Tracking & PHP Components

- Handling form with GET & POST
- Cookie
- Session
- Server Variable
- PHP Components:
 - PHP GD Library
 - PHP Regular expression
 - Uploading file
 - Sending mail using mail()
 - Sending mail using smtp()

AJAX

- What is AJAX
- PHP with AJAX
- How AJAX works with PHP
- Working with AJAX as background process
- Using JQuery with PHP
- JQuery AJAX with PHP

Unit : 4

Introduction of SQL, MySQL Functions

- Working with MySQL using PhpMyAdmin
- SQL DML Statement (Insert, Update, Select, Delete) Command
- MySQLi Functions:
mysqli_connect, mysqli_select_db, mysqli_query, mysqli_affected_rows,
mysqli_num_rows, mysqli_autocommit, mysqli_commit, mysqli_fetch_array,
mysqli_fetch_assoc, mysqli_fetch_object, mysqli_fetch_row, mysqli_prepare

Unit : 5**Web Services**

- XML and JSON
- Introduction to JSON
- Installation & Configuration
- Resource Types
- JsonSerializerable
- JSON Functions: json_decode, json_encode

jQuery

- What is jQuery?
- jQuery Syntax
- jQuery Selector:
 - Element Selector
 - Class Selector
 - ID Selector
- jQuery Events:
 - click, dblclick, keypress, keydown, keyup, submit, change, focus, blur, load, resize, scroll, unload
- jQuery Effects:
 - hide show, fade, slide

	Class Room	Seminar	Expert Talk	Test	Total
No. Of Lecture	60	05	05	05	75

Reference Books:

No.	Name	Author / Publication
1	Modern PHP: New Features and Good Practices	Josh Lockhart (ORELLY)
2	PHP Cookbook: Solutions & Examples for PHP Programmers	David Sklyar and Adam Trachtenberg (ORELLY)
3	Programming PHP	Kevin Tatroe and Peter MacIntyre (ORELLY)
4	PHP for the Web: Visual QuickStart Guide (4th Edition)	Larry Ullman (Peachpit Press)

Web site References:

- <http://php.net/manual/en/book.mysql.php>
- https://www.w3schools.com/php/php_ref_mysql.asp
- <https://www.tutorialspoint.com/index.htm>