

CAP777:WEB DEVELOPMENT USING PHP

L:3 T:0 P:2 Credits:4

Course Outcomes: Through this course students should be able to

- CO1 :: knowledge about dynamic web based solutions development
- CO2 :: understand essentials skills for commercial web development
- CO3 :: employ the mandatory skills of web based IT solution development
- CO4 :: explore the possibility to come up with optimized web based IT solutions

Unit I

Basics of PHP : introduction to PHP, client site script vs server site script, compiling process for php web page, variables in php, constants in php, control flow statements, looping statements, OOPs in PHP

Unit II

Functions in PHP : built in functions in php, defining and calling user defined functions in php, function parameters in php

Arrays in PHP : types of arrays supported in php, performing operations on array in php, traversing arrays in php, sorting arrays in php, array functions in php

Unit III

Handling HTML forms with PHP : html form controls, capturing HTML form data using PHP, sending data from PHP to HTML page

Unit IV

Database using MySQLi with PHP : database options using php, performing database operations using mysqli, performing database navigation using mysqli, using grid with mysqli

Unit V

Introduction to Laravel Framework : configuring laravel framework, html template to laravel blade template, database migrations, database eloquent ORM (CRUD)

Unit VI

Advanced Laravel features : form validations in laravel, file storage and uploading in laravel, database seeding in laravel, sending emails using laravel, git and git hub (version control) for laravel

List of Practicals / Experiments:

Programming in PHP

- logic implementation using different types of variables
- programing constructs in php
- using objects of classes to implement properties and methods

Implementing functions in PHP

- creating functions in php
- types of function calls in php
- functions arguments in php

Implementing arrays in PHP

- indexed arrays in php
- associative arrays in php
- multidimensional arrays in php

HTML forms and PHP

- applying logic on html form data using php
- methods to send to data from html to php page

Using MySQLi database

- sending data from html page to MySQLi database using php
- different modes to retrieve data from a MySQLi database to HTML page

Working with Laravel framework

- migrating from HTML to Laravel
- CRUD operations on MySQLi database
- implementing validations using Laravel
- managing Laravel versions using Git Hub

Text Books: 1. PROGRAMMING PHP by RASMUS LERDORF, KEVIN TATROE, O'REILLY

References: 1. WEB TECHNOLOGIES BLACK BOOK by KOGENT LEARNING SOLUTIONS INC., DREAMTECH PRESS
2. WEB TECHNOLOGIES HTML, CSS3, JAVASCRIPT, JQUERY, AJAX, PHP, XML, MVC AND LARAVEL by DT EDITORIAL SERVICES, DREAMTECH PRESS