

## 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