

# Syllabus

## WEB APPLICATION DEVELOPMENT USING PHP

BCA-16-504

L T P Cr

6 - - 3

Time Duration : 3 Hrs

External Marks : 65

Internal Marks : 10

Number of Lectures : 60

**Objective :** This course enables students to do web programming using PHP and MySQL. It would enable them to develop websites and other web based applications.

**Note :**

- (i) The Question Paper will consist of Four Sections.
- (ii) Examiner will set total of NINE questions comprising TWO questions from each Section and ONE compulsory question of short answer type covering whole syllabi.
- (iii) The students are required to attempt ONE question from each Section and the Compulsory question.
- (iv) All questions carry equal marks and unless specified.

### UNIT - I

**Introduction to web applications :** Client Side Scripting Vs Server Side Scripting, Understanding Web Servers : Local Servers and Remote Servers, Installing, WAMP and configuring PHP environment, Static website Vs Dynamic website development, Embedding PHP code in Web Pages.

**PHP Basics :** Tokens, Variables, Variables Scope, Constants, Data Types, number handling in PHP, operands, operators, expressions, operator precedence, comments, echo and Print statement.

**Control structures :** Branching statements : if-else, ternary operator, switch; looping statements; while, do-while, for; file inclusion Statements

## UNIT - II

**Functions :** Function definition, Creating and invoking user-defined functions, Formal parameters versus actual parameters, Function and variables scope, Recursion, Library functions.

**String Handling :** Interpolation with curly braces, characters and string indexes, string operators, heredoc, string functions, Formatting Strings, Comparing and searching Strings and substrings.

**Arrays :** PHP Arrays, Creating Arrays, Accessing Array elements, Multidimensional Arrays, Inspecting Arrays, Deleting from Arrays, Iterating with each () and foreach (), Iterative function; current (), next (), prev (), reset (), end () .

## UNIT - III

**Forms :** Working with HTML Form controls and PHP, Super global variables, super global array, importing user input, Accessing user input.

**Integrating PHP and Database:** Connecting to database, Making SQL, queries, Executing queries, Fetching data sets, Integrating Forms and Databases : Basic form submission to a database, editing data with an HTML form.

## UNIT - IV

**Maintaining User State :** Introduction to Cookies, Setting time in a cookie with PHP, Deleting a cookie, Creating session cookie, Introduction to sessions, Starting a session,

Registering Session variables, working with session variables, Destroying session, passing session Ids, encoding and decoding session variables, increase session expire time, working of session without cookie.

**Working with File System :** Understanding PHP file permissions, Opening and closing a file, File reading and writing functions, File system and directory functions.