CS/DSC/T/200: Fundamentals of PHP

Total Credits : 02	**Total Contact Hours : 30 Hrs.**

Maximum Marks : 50

Learning Objectives of the Course:

i) Introduce students to the fundamental concepts of PHP.
ii) Enable students to develop dynamic web pages and applications.

Course Outcomes (COs) :

After completion of the course, students will be able to

i) Understand PHP Basics.
ii) Implement Control Structures.
iii) Manage Data Using Arrays and Functions.

Module No.	Topics / Actual Contents of the Syllabus	Contact Hours
I	**Introduction to PHP:** Basics of Web Development & Role of PHP, Client-Side vs Server-Side Scripting, Installation & Configuration (XAMPP, WAMP, LAMP), Writing and Executing a Simple PHP Script, PHP Syntax, Variables, and Constants, Data Types and Type Casting.	10 Hrs.
II	**Operators and Control Structures:** Arithmetic, Logical, and Comparison Operators, Conditional Statements (if, if-else, switch-case), Looping Structures (for, while, do-while, foreach), Using Break & Continue.	10 Hrs.
III	**Functions and Arrays:** Defining & Calling Functions, Function Parameters & Return Values, Built-in Functions vs User-Defined Functions, Understanding Arrays (Indexed & Associative), Array Functions (Sorting, Merging, Searching).	10 Hrs.

References:

1. "PHP & MySQL: Server-side Web Development" – Jon Duckett, Wiley
2. "Learning PHP, MySQL & JavaScript" – Robin Nixon, O'Reilly Media
3. PHP Official Documentation: www.php.net.
4. "PHP: The Complete Reference", - Steven Holzner, McGraw Hill.