

Internet Programming I

Semester V

Subject Code: BS51704

Lectures: 60

Objectives:

The syllabus aims in equipping students with,

- Learn Core-PHP, Server Side Scripting Language
- Learn PHP-Database handling.
- PHP framework for effective design of web application

Unit 1: Web techniques

08

Introduction to web techniques

- Introduction to HTML forms with server variables(\$_GET, \$_POST)
- HTTP basics, Introduction to Web server and Web browser
- Introduction to PHP
- What does PHP do?
- Lexical structure
- Language basics

Unit 2: Function and String

10

Function

- Defining and calling a function
- Default parameters
- Variable parameters, Missing parameters
- Variable function, Anonymous function
- Some predefined functions(Date(), Time(), Zip() etc)

String

- Types of strings in PHP
- Printing functions(echo, print, print_r, printf)
- Encoding and escaping
- Comparing strings(=, ==, ===)
- Manipulating and searching strings
- Regular expressions



Unit 3: Arrays

08

Arrays

- Indexed Vs Associative arrays
- Identifying elements of an array
- Storing data in arrays
- Multidimensional arrays
- Extracting multiple values
- Converting between arrays and variables
- Traversing arrays
- Sorting
- Action on entire arrays

Unit 4: Files and directories

05

Files and directories

- Working with files and directories
- Opening and Closing, Getting information about file, Read/write to file, Splitting name and path from file, Rename and delete files
- Reading and writing characters in file
- Reading entire file
- Random access to file data
- Activity based on(Getting information on file,Ownership and permissions)

Unit 5: . Databases (PHP-PostgreSQL)

17

Databases (PHP-PostgreSQL)

- Using PHP to access a database
- Relational databases and SQL
- PEAR DB basics
- Advanced database techniques
- Sample application (Mini project)

PHP framework

- Introduction to PHP framework.,
- Features, Applications.,
- One example like CodeIgniter

*Contact hours – 12 hours



Reference Books:

1. Programming PHP By Rasmus Lerdorf and Kevin Tatroe, O'Reilly publication
2. Beginning PHP 5 , Wrox publication
3. PHP web seivces, Wrox publication
4. AJAX Black Book, Kogent solution
5. Mastering PHP , BPB Publication
6. PHP cookbook, O'Reilly publication
7. PHP for Beginners, SPD publication

Reference Links:

- www.php.net.in
- www.W3schools.com

