| Sub. No. | Subject Name | Teaching Scheme | | Examination Scheme | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Th. | Pra. | Internal Mark | | | External marks | | | Grand Total (I+E) |
| | | Lect. Hrs/ Week | Pra. Hrs/ Week | Th. | Pra. | Total (I) | Th. | Pra. | Total | |
| El-6 | Web Development Using PHP | 4 | 3 | 30 | 20 | 50 | 70 | 30 | 100 | 150 |

**Unit-I  Introduction To PHP:**                                    **[25%]**

Building blocks of PHP: Basic syntax, Variables, Data Types, Operators and expressions, Constants. Flow Control: Switch flow, Loops, Code Block, Sen ding data to the browser. Working With Arrays: Arrays, Creating array, Array related Functions. Working with Function: Function, Calling Function, Defining Function, Returning the Values from user defined function, Variable Scope, Argument. Working with St rings, Date and Time Functions: formatting String with PHP, Date and Time Function, String Manipulation and Investigating Strings with PHP. Working with Forms: Creating form, Handling form, Validating form data, Accessing form data, use of Hidden fields to  save State, Redirecting user, file Upload and Sending Mail on Form Submission.

**Unit-II  Introduction to MySQL & Interacting with MySQL:**        **[25%]**

Understanding the Database Design Process; The importance of good database design, Types of Table Relationship, Understanding Normalization. Learning Basic SQL Command: Table Creation, Insert row, Select Command Using Where Clause, Update and Delete Command, Replace Command, String Function, Date and Time Functions, Stored Procedures, Join, Indexing and Sorting que ry. Using MySQL with PHP: connecting to MySQL and selecting the database, executing simple queries, retrieving query results, counting return Records, updating, Record Addition, Viewing Record, and Deletion Record with PHP.

**Unit-III Introduction to Cookies & working With Files and            Directories:**
                                                                **[25%]**

Working with files: Include Files with INCLUDE, creating and deleting files, opening a file for reading, writing or Appending, Reading from files, Validating Files. Working with Directories: Open Pipes to and from Process using Popen(), Running command with Exec(), Running Command with System() or Passthrough(). Working with Cookies and User Session: Introduction of Cookie, Setting a Cookie with PHP, Introduction of Session, Improving Session Security, Starting a Session, Working with Session Variables, Passing Session Id in the query String, Destroying Session and Unsetting Variables.

**Unit=IV Introduction to Object Oriented Programming With PHP 5.0 and Error Handling:**
                                                                **[25%]**

Introduction, the basic, auto loading objects, Class, Extends, Constructs, Scope Resolution Operator, Parent, serializing object, The magic objects – sleep and awake, reference inside the constructor, comparing objects. Visibility, overloading, object interf ace, pattern, magic method, reflection, extending exception. Error Handling and Debugging: General error types and debugging, displaying PHP errors, Adjusting Error Reporting, Creating Custom error handler, PHP debugging techniques, SQL and MySQL debugging  techniques.

**Text Book:**
1.  Begging PHP 5 by Wrox.
2.  Julie C. Meloni, PHP MySQL and Apache, SAMS Teach Yourself, Pearson Education.

**References:**
1.  PHP and MySQL for dynamic Web Sites: Visual Quickpro Guide, Second Edition by Larry Ullman.
2.  Programming PHP By Rasmus Lerdorf, Kevin Tatroe, Peter Maclntyre.