



Faculty of: **Computer Science**

Course: **Bachelor of Computer Applications**

Semester: **IV**

Subject Code: **4CS04APP1 (Elective – I)**

Subject Name: **PHP Programming**

| Sr. No | Branch Code | Subject Code | Subject Name | Teaching hours/ Week | | | Credit hours | Credit Points | Evaluation Scheme/ Semester | | | | | | | | |
|--------|-------------|--------------|-----------------|----------------------|----|----|--------------|---------------|-----------------------------|----------|--------------------|----------|---------------------|----------|--------------------|----------|-------|
| | | | | Th | Tu | Pr | | | Theory | | | | Practical | | | | Total |
| | | | | | | | | | Internal Assessment | | End Semester Exams | | Internal Assessment | | End Semester Exams | | |
| | | | | | | | | | Marks | Duration | Marks | Duration | Marks | Duration | Marks | Duration | |
| 3 | 2 | 4CS04APP1 | PHP Programming | 4 | -- | 2 | 6 | 5 | 15 SE | 1Hr. | 70 | 2½ Hrs. | 25 IP | 1Hr. | --- | -- | 150 |
| | | | | | | | | | 15 CE | | | | 25 CE | | | | |

AIM:

At the end of this course, Student can develop a Dynamic web site using AJAX and JQuery. Students can have basic knowledge of PHP.

COURSE CONTENTS

Unit I GD Library and PDF Creation

12 Hrs.

- Introduction to GD Library,
- Creating an image
- Displaying image on HTML page
- Drawing lines
- Setting line thickness
- Drawing rectangle
- Drawing ellipses
- Drawing arcs
- Drawing polygons
- Filling in figures
- Drawing text
- Drawing vertical text
- Pdf creation functions
- Setting headers and footers
- Generate page report using PDF
- Generating pdf from database

Unit II Object Oriented Programming with PHP

12 Hrs.

- OOPS Concept
- Classes & Object
- Define a class
- Class Attributes
- Class constants
- Creating object
- Object Properties
- Object Methods

- Constructors and Destructors
- Static keyword
- Access Specifiers
- Class Inheritance
- Abstract Class

Unit III MySQLi

12 Hrs.

- Introduction to MySQLi
- Difference between MySQL & MySQLi
- Establishing a database connection using OOPs
- MySQLi, Preparing a database query
- Passing query parameters
- Setting a destination for the query result
- Executing the query with MySQLi,
- Fetching the results

Unit IV Ajax

12 Hrs.

- What is AJAX?
- How AJAX works
- XMLHttpRequest,
- XMLHttpRequestResponse,
- Onreadystatechange event
- AJAX and PHP
- AJAX and Databases
- AJAX Live Search
- JQuery - AJAX Intro
- jQuery Load
- jQuery Get/Post
- jQuery AJAX

REFERENCE BOOKS:

1. JavaScript and jQuery – By David Sawyer McFarland (O'REILLY Publication)
2. PHP jQuery Cookbook, Vijay Joshi, Packt Publishing, ISBN 978-1-849512-74-9
3. jQuery 1.3 with PHP, Kae Verens, Packt Publishing, ISBN 978-1-847196-98-9
4. Sams Teach Yourself Ajax, JavaScript, and PHP All in One, Phil Ballard, Michael Moncur, ISBN 978-0-672-32965-4
5. Beginning Ajax with PHP From Novice to Professional, Lee Babin, Apress Publication, ISBN -13978-1-59059-667-8
6. AJAX and PHP Building Responsive Web Applications, Cristian Darie, Bogdan Brinzarea, Packt Publishing, ISBN 1-904811-82-5
7. Object-Oriented Programming with PHP5, Hasin Hayder, Packt Publishing, ISBN 978-1-847192-56-1