**BHCS19A**

**Web Design and Development**

**Skill Enhancement Course**

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| **Unit** | **Topics Covered** | **Reference** | **Additional Reference** |
| 1 | Introduction to Static and Dynamic Websites (Website Designing and Anatomy of Webpage) | [1] 1 | [3] 1 |
| 2 | Introduction to HTML and CSS (Basic Tags, Lists, Handling Graphics, Tables, Linking, Frames, Forms), Introduction to DOM | [1] 2-7, 11 | [3] 19 |
| 3 | Introduction to JavaScript (Basic Programming Techniques & Constructs, GET/POST Methods, Operators, Functions, DOM Event handling, Forms Validation, Cookies), Inter-page communication and form data handling using JavaScript | [1] 9-10 | [3] 14-17 |
| 4 | Introduction to PHP (Working, Difference with other technologies like JSP and ASP), PHP Programming Techniques (Data types, Operators, Arrays, Loops, Conditional statements, Functions, Regular expressions) | [2] 1-5 | [2] 1, 3-5 |
| 5 | Form Data Handling with PHP, Database connectivity and handling using PHP-MySQL | [1] 20[2] 9-10 | [3] 12[2] 11 |

**References:**

1. Bayross, I. (2013). *Web enabled commercial application development using HTML, JavaScript, DHTML and PHP*. 4th edition. BPB Publication.

2. Holzner, S.(2007). *PHP: The Complete Reference Paperback*, McGraw Hill Education (India).

**Additional Resources**

1. Boronczyk, T., & Psinas, M. E. (2008). *PHP and MYSQL (Create-Modify-Reuse).* Wiley India Private Limited.

2. Welling, L., & Thompson, L. (2008). *PHP and MySQL Web Development*. 4th edition. Addition Paperback, Addison-Wesley Professional.

3. Nixon, R. (2014). *Learning PHP, MySQL, JavaScript, CSS & HTML5*. 3rd edition. Paperback, O’reilly Media

4. Sklar, D., & Trachtenberg, A., (2014). *PHP Cookbook: Solutions & Examples for PHP Programmers.* 2nd edition*.* O’reilly Media

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| **Sr. No.** | **Unit** | **Reference** | **Contents** | **Additional Reference** | **Contents** |
| 1 | 1 | [1] | Ch. 1 | [3] | Ch. 1 |
| 2 | 2 | [1] | Ch. 2-7, 11 | [3] | Ch. 19 |
| 3 | 3 | [1] | Ch. 9-10 | [3] | Ch. 14-17 |
| 4 | 4 | [2] | Ch. 1-5 | [2] | Ch. 1, 3-5 |
| 5 | 5 | [1] | Ch. 20 | [3] | Ch. 12 |
| [2] | Ch. 9-10 | [2] | Ch. 11 |

**References:**

1. Bayross, I. (2013). *Web enabled commercial application development using HTML, JavaScript, DHTML and PHP*. 4th edition. BPB Publication.

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