

VEER NARMAD SOUTH GUJARAT UNIVERSITY – SURAT
Bachelor of Computer Application (B.C.A) 3rd Year
Proposed Syllabus (As Per CBCS)

T. Y. B. C. A. Semester 5
Effective From: June 2013.

Paper No.: 501 (Core Paper-1)

Teaching Hours: 4 Hrs./Week

Paper Title: PHP MySQL

Credits: 4

Prerequisite: Basic knowledge of scripting language and HTML.

Aim: To make students aware of open source web-based tools and database.

Expected Outcome: The students will be able to develop web based applications.

1. Introduction to PHP

- 1.1. Installation of PHP and MySQL
- 1.2. PHP configuration in IIS & Apache Web Server and features of PHP

2. Writing PHP

- 2.1. How PHP code is parsed
- 2.2. Embedding PHP and HTML
- 2.3. Executing PHP and viewing in Browser
- 2.4. Data types
- 2.5. Operators
- 2.6. PHP variables: static and global variables
- 2.7. Comments in PHP

3. Control Structures

- 3.1. Condition statements
 - 3.1.1. If...Else
 - 3.1.2. Switch
 - 3.1.3. ? operator
- 3.2. Loops
 - 3.2.1. While
 - 3.2.2. Break Statement
 - 3.2.3. Continue
 - 3.2.4. Do...While
 - 3.2.5. For
 - 3.2.6. For each
- 3.3. Exit, Die, Return
- 3.4. Arrays in PHP

4. Working With Data

- 4.1. FORM element, INPUT elements
- 4.2. Validating the user input
- 4.3. Passing variables between pages

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- 4.3.1. Passing variables through GET
- 4.3.2. Passing variables through POST
- 4.3.3. Passing variables through REQUEST

5. Working With Data

5.1. Built-in functions

- 5.1.1. String Functions: chr, ord, strtolower, strtoupper, strlen, ltrim, rtrim, substr, strcmp, strpos, strrpos, strstr, stristr, str_replace, strrev, echo, print
- 5.1.2. Math Functions: abs, ceil, floor, round, fmod, min, max, pow, sqrt, rand
- 5.1.3. Array Functions: count, list, in_array, current, next, previous, end, each, sort, rsort, assort, array_merge, array_reverse

5.2. User Defined Functions

6. Sessions and cookies

- 6.1. Concept of Session
- 6.2. Starting session
- 6.3. Modifying session variables
- 6.4. Un registering and deleting session variable
- 6.5. Concept of Cookies

7. Introduction of MySQL

- 7.1. Types of tables in MySQL
- 7.2. Query in MySQL: Select, Insert, Update, Delete
- 7.3. Truncate
- 7.4. Alias
- 7.5. Order By
- 7.6. Database connectivity of PHP with MySQL

Reference Books:

1. Core PHP Programming by Leon Atkinson : Pearson publishers
2. The Complete Reference PHP by Stever Holzner: McGraw Hill
3. Beginning PHP 5.0 Database by Christopher Scollo, Harish Rawat, Deepak Thomas, Publisher: Wrox Press
4. PHP – A beginners Guide By: Ashok Appu Publisher: Wiley
5. PHP 5.0 and MySql Bible Tim Converse, Joyce Park, Clark Morgan, Publishers: John Wiley & Sons
6. MySQL Bible by Steve Suehring Publisher: John Wiley & Sons
7. PHP Black Book by Peter Moulding
8. PHP 5 and Mysql – Tim converse, Joyce Park and Clark Morgan – Bible Wiley
9. Beginning PHP 5.3 by Matt Doyle - By Wrox Publication