

Course: 501: PHP & MySQL

Course Code	501
Course Title	PHP & MySQL
Credit	4
Teaching per Week	4 Hrs
Minimum weeks per Semester	15 (Including Class work, examination, preparation etc.)
Review / Revision	June 2019
Purpose of Course	To make students aware of Open Source Web Based Tools and Database
Course Objective	<ol style="list-style-type: none"> 1. To make students understand the concepts of Open Source Web Based Dynamic Scripting Language. 2. To make students understand the concepts of Open Source Database.
Pre-requisite	Basic knowledge of Scripting Language & HTML.
Course Out come	Ability to develop Web Based Applications.
Course Content	<p>Unit 1. Introduction to PHP and writing PHP code</p> <ol style="list-style-type: none"> 1.1. Web Communication fundamentals <ol style="list-style-type: none"> 1.1.1. Request-Response 1.1.2. Client-side Scripting 1.1.3. Session management 1.2. Installation & Configuration of PHP and MySQL 1.3. How PHP code is parsed 1.4. Embedding PHP and HTML 1.5. Executing PHP and viewing in Browser 1.6. Data types 1.7. Operators 1.8. PHP variables: Static and Global variables 1.9. Comments in PHP 1.10. Control Statements <ol style="list-style-type: none"> 1.10.1. Condition Statements <ol style="list-style-type: none"> 1.10.1.1. If...Else 1.10.1.2. Switch 1.10.1.3. '?' Operator 1.10.2. Loops <ol style="list-style-type: none"> 1.10.2.1. While 1.10.2.2. Break Statement 1.10.2.3. Continue 1.10.2.4. Do...While 1.10.2.5. For 1.10.2.6. For each 1.11. Exit, Die, Return 1.12. Arrays in PHP <p>Unit 2. Working with Data and Functions</p> <ol style="list-style-type: none"> 2.1. FORM element, INPUT elements 2.2. Validating the user Input 2.3. Passing variables between pages through GET, POST and REQUEST 2.4. Built-in Functions <ol style="list-style-type: none"> 2.4.1. String Functions: chr, ord, strtolower, strtoupper, strlen, ltrim, rtrim, substr, strcmp, strencmp, strpos, strrpos, strstr, stristr, str_replace, stripslashes, echo, print 2.4.2. Math Functions: abs, ceil, floor, round, fmod, min, max, pow, sqrt, rand

	<ul style="list-style-type: none"> 2.4.3. Array Functions: count, list, in_array, current, next, previous, end, each, sort, rsort, assort, array_merge, array_reverse 2.4.4. Date Functions: date, getdate, DateTime::setDate, checkdate, time, mktime 2.5. User-defined Functions <p>Unit 3. Sessions, Cookies and Upload Files</p> <ul style="list-style-type: none"> 3.1. Concept of Session 3.2. Starting session 3.3. Modifying session variables 3.4. Unregistering and deleting session variable 3.5. Concept of Cookies and Querystring 3.6. Upload file form 3.7. Uploading scripts and restrictions on upload 3.8. Saving uploaded file <p>Unit 4. Introduction to MySQL</p> <ul style="list-style-type: none"> 4.1. Types of tables in MySQL 4.2. Query in MySQL: Select, Insert, Update, Delete 4.3. Order By 4.4. Database connectivity of PHP with MySQL 4.5. Functions of MySQL <p>Unit 5. Introduction to jQuery</p> <ul style="list-style-type: none"> 5.1. Syntax Overview 5.2. Selectors 5.3. Events 5.4. Effects <ul style="list-style-type: none"> 5.4.1. Hide 5.4.2. Show 5.4.3. Fade 5.4.4. Slide 5.4.5. Animate 5.4.6. Stop 5.4.7. Callback & Functions 5.4.8. Chaining 5.5. jQuery HTML <ul style="list-style-type: none"> 5.5.1. Get 5.5.2. Set 5.5.3. Add 5.5.4. Remove 5.6. CSS, Styling & Dimensions 5.7. Traversing <ul style="list-style-type: none"> 5.7.1. Ancestors 5.7.2. Descendants 5.7.3. Siblings 5.7.4. Filtering
Reference Book	<ul style="list-style-type: none"> 1. Core PHP Programming - Leon Atkinson – Pearson Publishers 2. The Complete Reference PHP - Stever Holzner – McGraw Hill 3. Beginning PHP 5.0 Database - Christopher Scollo, Harish Rawat, Deepak Thomas – Wrox Press 4. Learning jQuery – Jonathan Chaffer, Karl Swedberg – Packt

	Publication 5. jQuery for Dummies – Lynn Beighley – Wiley Publication
Teaching Methodology	Class Work, Discussion, Self-Study, Seminars and/or Assignments
Evaluation Method	30% Internal assessment. 70% External assessment.