CS-204 (PHP Programming)

Course Description

This course is a language written for the Web, quick to learn, easy to deploy and provides substantial functionality required for e-commerce. PHP is a server-side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.

Course Aims

The aim of this course:
- To help students understanding of the PHP language and its associated technologies
- To build interactive Web sites and applications using PHP
- To analyze the basic structure of a PHP web application and be able to install and maintain the web server, compile, and run a simple web application
- To list the major elements of the PHP and MySQL work and explain why PHP is good for web development
- To learn how to take a static website and turn it into a dynamic website run from a database using PHP and MySQL

Learning Outcomes

Upon the successful completion of this course, Student will be able to:
- Get a basic knowledge of PHP and variety of skills and knowledge of information technology.
- Get hands on experience on various techniques of web development and will be able to design and develop a complete website.
- Analyze and solve common Web application tasks by writing PHP programs.
- Analyze and solve various database tasks using the PHP language.

Reference book

- Beginning PHP 5.3, 1st Edition by Matt Doyle
- PHP 5 for Dummies by Janet Valade

Course Organization

Student participation in the course will involve the following activities:
1. Attending the lectures and Quiz (After each lecture)
2. Tutorial /Assignment
3. Moodle Test
4. Project
5. Exams

Assessment plan for the course

Paper Exam	50 %
Attendances and Quiz	10 %
Moodle Test	10 %
Tutorial/Assignment	10 %

Project   20 %

Grading System

UCSY follows a letter grade system comprising of grades A, A-, B+, B, B-, C+, C, C-, D and F. All marks obtained by students during the semester will be used in the grading process. For undergraduate students, a grade of "C" or better is required in this course because it is a prerequisite for other courses in the program. **The student who gets the grade point less than 2 must do Re-Exam.**

The grading scale for this course is:

Marks obtained	Letter Grade	Grade Point
>= 90	A	4
85 – 89	A-	3.75
80 – 84	B+	3.25
75 – 79	B	3
70 – 74	B-	2.75
65 – 69	C+	2.25
60 – 64	C	2
55 – 59	C-	1.75
50 – 54	D	1
0 – 49	F	0

Fail Grade and Re-Exam: C-, D, F (Grade point <2)

Second Semester Course Detail Lecture Plan

No.	Topics	Week	Remark
1	**Chapter 1 INTRODUCTION**		
	Introduction PHP What is PHP? Why use PHP? Taking a look at PHP Getting Familiar with PHP Features of PHP	Week 1	Do lab examples and exercises
2	**Chapter 2 YOUR FIRST PHP SCRIPT**		
	Installing PHP Help with PHP Writing PHP Statements Writing Your HTML Script Writing Your First PHP Script Example using Comments Documenting the Script	Week 1	Do lab examples and exercises
3	**Chapter 3 PHP LANGUAGE BASICS**		
	PHP Variables Assigning and Displaying Variable Values PHP is a Loosely Typed Language Removing Variables Working with Constants Data Types PHP 's type testing functions Changing a Variable's Data Type Arithmetic Operators Bitwise Operators Comparison Operators Logical Operators Understanding Operator Precedence Working with Numbers Working with Character Strings	Week 1	Do lab examples and exercises
4	**Chapter 4 DECISIONS AND LOOPS**		
	Making Decisions Controlling the Flow of the Script Using comparison operators Using Conditional Statements Loop Statement	Week 2	Do lab examples and exercises
5	**Chapter 5 STRINGS**		

				Do lab examples and exercises Moodle Test I (Chapter 1, 2, 3, 4, 5)
	Common escape sequences Multi - line strings in PHP Working with Character Strings Manipulating strings Finding the Length of a String Creating and Accessing Strings Accessing Characters within a String Finding all occurrences Searching Strings Replacing Text within Strings Dealing with Upper- and Lowercase Case - insensitive string functions Formatting Strings Padding the Output Specifying Number Precision Trimming Strings Working with Dates and Times		
6	**Chapter 6 ARRAYS**		
	Creating Arrays Accessing Array Elements Looping Through Arrays with foreach Working with Multidimensional Arrays PHP Sorting Arrays Manipulating Array	Week 4	Do lab examples and exercises
7	**Chapter 7 FUNCTIONS**		
	Calling Functions Writing Your Own Functions Understanding Variable Scope Working with Global Variables Working with References Passing References to Your Own Functions Returning References from Your Own Functions Writing Recursive Functions	Week 5	Do lab examples and exercises
8	**Chapter 9 HANDLING HTML FORMS WITH PHP**		
	Static & Dynamic Web Pages How HTML Forms Work Capturing Form Data with PHP Dealing with Multi-Value Fields Generating Web Forms with PHP Storing PHP Variables in Forms Creating File Upload Forms	Week 6	Do lab examples and exercises
9	**Chapter 10 COOKIES AND SESSIONS**		
	Working with Cookies Cookie Components Setting a Cookie in PHP Accessing Cookies in Your Scripts	Week 7	Do lab examples and exercises

	Removing Cookies Using PHP Sessions to Store Data Creating a Session Reading and Writing Session Data Destroying a Session		
10	**Chapter 12 MYSQL DATABASE WITH PHP**		
	Communicating with your database Using PHP with a database Connecting to the Database Possible Errors A Database Connection Inserting Data into a Table Manipulating the Results Extracting the Data Fetching a Row User Interaction Form Form Process Retrieving Data Updating Records Deleting Records	Week 8	Do lab examples and exercises Moodle Test II (Chapter 6, 7, 9, 10,12)
11		Week 9,10	Project