Department of Computer Science and Information Technology

College of Science

University of Salahaddin-Erbil

Subject: Web Applications Development I

Course Book: Year 4

Course Credit: 3

Semester: 1

Lecturer's name: Diyar Abdulkarem Abdulqader, MSc

Academic Year: 2022/2023

Course Book

1. Course name	Web Applications Development I
2. Lecturer in charge	Diyar A. Abdulqader
3. Department/ College	Computer Science and Information Technology / Collage of Science
4. Contact	e-mail: diyar.abdlqadr@su.edu.krd Tel: 0750 409 4741
5. Time (in hours) per week	Theory: 2 Practical: 2
6. Office hours	Sunday: 08:30 AM – 10:30AM
7. Course code	ScCs1402
8. Teacher's academic profile	Bsc. Computer Science from Slahaddin University- Erbil 2011 Msc. Advanced Computer Science from University of Leicester – UK in 2016
9. Keywords	PHP, MySQL, AJAX, HTML, CSS

10. Course overview:

This course will introduce the essential topics of internet programming predominately with the PHP scripting language. Students will design and write interactive WWW pages using HTML, CSS, and JAVA Script programming languages, JQuery, MySQL and PHP.

11. Course objective:

The course aims to teach students to build nontrivial, dynamic web applications. It introduce students to basic security mechanisms for server-side web application development. The students will be able to apply server-side web programming (e.g. with PHP and MySQL technologies.)

12. Student's obligation
   1. Attendance is an essential requirement for all students
   2. Using mobiles are not allowed in the classes.
   3. Respect examinations rules.
   4. No student allowed 15 minutes after the lecturer for early morning sessions.
   5. No student allowed after lecturer for late morning or afternoon sessions.
   6. Contacting lecturer is only through email (NO PHONE CALLS)
   7. Respect yourself and you will be respected
   8. Don't be surprised by quizzes before or after lectures.

13. Forms of teaching
Using Laptop with data show
- Using PowerPoint presentation
- Delivering the PPT slides to the students before giving the lecture.
- Interaction with the students inside the classroom.
- Using Data Show, Whiteboard, Laser pointer
  -Group Work
  -Practical Sessions
  -Assignments

14. Assessment scheme
Students are assessed as below:
- 15 Marks on Theory Exam
- 35 Marks on Practical Exams + Assignments + Quizes
- 50 Marks on Final Theory Exam

15. Student learning outcome:
After successful completion of the course, the student will be able to:
1. Develop dynamic websites
2. Apply HTML, CSS and JavaScript for website design.
3. Apply the a scripting language and database system to design dynamic website (e.g. PHP and MySQL)
4. Build basic security mechanisms for protection of dynamic websites

16. Course Reading List and References:

- Nixon, R., n.d. *Learning PHP, MySQL & Javascript: With jQuery, CSS & HTML5*. 5th ed. O'Reilly, 2018**.**
- Uk.php.net. 2022. *PHP: PHP Manual - Manual*. [online] Available at: <http://uk.php.net/manual/en> [Accessed 3 September 2022].
- W3schools.com. 2022. *PHP Tutorial*. [online] Available at: <https://www.w3schools.com/php/default.asp> [Accessed 3 September 2022].

Weeks	Theory Topics:	Practical Topics:
Week1	Introduction to PHP: What is PHP? Why PHP? Client Side and Server Side Scripting	Review HTML, CSS and Java Script PHP Installation
Week2	PHP Syntax, Variables, comments, Output Statements (echo and print), Data Types	Practical examples on Theory part
Week3	String, Math function, Operators Control Structures: If else, Switch Case	Practical examples on Theory part
Week4	Loop and Function	Practical examples on Theory part

Week5	Arrays, Global Variables, PHP alert with JS	Practical examples on Theory part
Week6	Forms, Form Validation	Practical examples on Theory part
Week7	Validate E-mail and URL Forms - Required Fields	Practical examples on Theory part
Week8	Date and Time	Practical examples on Theory part
Week9	Include Files, File Upload and Download	Practical examples on Theory part
Week10	Filters, Error & Exception Handling	Practical examples on Theory part
Week11	Exam	Exam
Week12	Cookies, Sessions, PHP header()	Practical examples on Theory part
Week13	MySQL Database, Connect to MySQL	Practical examples on Theory part
Week14	Create a MySQL Database, MySQL Create Table	Practical examples on Theory part
Week15	Review	

19. Examinations:

1. Compositional:

Q1. Write an example in PHP to compare two dates whether the first date is the same, latest, or older than the second date.

Q2. Write an example to call PHP function on the click of a Button?

Q3. Write an example to Upload Image into Database and Display it using PHP.

2. True or false type of exams:

1. When using the POST method, variables are displayed in the URL. **False**
2. In PHP you can use both single quotes (' ') and double quotes (" ") for strings. **True**
3. In PHP, the only way to output text is with echo. **False**

3. Multiple choices:

1. What does PHP stand for?
   A. PHP: Hypertext Preprocessor   B. Private Home Page   C. Personal Hypertext Processor
2. PHP server scripts are surrounded by delimiters, which?

A. <?php>...</?>   B. <script>...</script>   **C. <?php...?>**   D. <&>...</&>

3. All variables in PHP start with which symbol?

   A. $ B. !   C. &   D. _

20. Extra notes:

21. Peer review