

**Department of ………Computer…………............**

**College of ………………Science………………………..**

**University of…Cihan Campus / Sulaimaniay….**

**Subject: Web Development**

**Course Book – Year-4 /Semester 1.**

**Lecturer's name: Fahad Layth Malallah, MSc.**

 **Academic Year: 2015/2016**

**Course Book**

|  |  |
| --- | --- |
| **1. Course name** | **Web Development** |
| **2. Lecturer in charge** | **Fahad Layth Malallah** |
| **3. Department/ College** |  **Computer / Science** |
| **4. Contact** | **e-mail:** **fahad.layth.86@gmail.com****Tel:**  |
| **5. Time (in hours) per week**  |  **Theory: 2-hour** **Practical: 2-hour**  |
| **6. Office hours** | **All time work except teaching hours** |
| **7. Course code** | **CSC24104** |
| **8. Teacher's academic profile**  | **Fahad Layth Malallah** is currently lecturer at Cihan University and has been appointed as department coordinator, Computer Science. He has graduated since 2008 and 2014 for Bsc. And MSc. respectively. He also has worked for 3-year for an international telecommunications such as Huawei, Nokia and Siemens with specialist in Intelligent Network (IN-GSM) Senior Engineer. In terms of academic scientific research, he has a contribution around the world as he has published 5 article papers with reputed international journals as well as 3 international conferences. He is dedicating his time for Computer Vision, Image Processing and Information Security researching. His native tongue is Arabic with fluent in English language, basic in both French and Kurdish Languages. |
| **9. Keywords** | **HTML, CSS, Javascript, MySQL, PHP.** |
| **10. Course overview:**Web Design, Programming and Authoring concepts. Client-Side technologies, writing web scripts using HTML and xHTML. Web Styling using CSS. Adding Dynamicity to pages using Javascript. Server-Side technologies, Server scripting in PHP. Building web applications in PHP and MySQL. |
| **11. Course objective:**The course aims at developing students’ sense of the complete process of web development through emphasizing the importance of design, programming and authoring as interrelated tasks. The course also aims at developing students’ skills in the design and implementation of simple web applications using both client and server side technologies. |
| **12. Student’s obligation**-Quizzes suddenly happened without a prior notice.-Score on attendance.-If 5-minute late attendance, student will be considered as an absent.-Doing Project. |
| **13. Forms of teaching** Contact hours: 2 theoretical weekly hours with discussions + 2 Practical hours in the laboratory design tasks + Assignments. |
| **14. Assessment scheme**Students’ assessment will be evaluated according to the following scheme

|  |  |
| --- | --- |
| Midterm theoretical exam | 25 marks |
| Quizzes, activities and attendance | 10 marks |
| Project | 15 marks |
| Final theoretical exam | 35 marks |
| Final Lab exam | 15 marks |

 |
| **15. Student learning outcome:**At the end of this course, students will be able to:1. Understand the complete process of web development.
2. Understand the origins and the solid advantages of the web and Web 2.0 concepts.
3. Design simple web pages using HTML and xHTML.
4. Understand and use CSS to add extra styling to web pages.
5. Understand page dynamics by Javascript.
6. Understand the power of web applications and services.
7. Build simple web applications using PHP.
8. Connect PHP to MySQL database server on web application.
 |
| **16. Course Reading List and References‌:**1- Michael Glass et al. 2004. *Beginning PHP, Apache, MySQL Web Development.*2- Elizabeth Castro. 2006. “*HTML, XHTML, and CSS”* |
| **17. The Topics:** | **Lecturer's name** |
| **Note: Following four chapters will be covered within 16 weeks.****Chapter 1: Client-Side Scripting**1. Web Design Introduction (Web-1,Web-2, Web-3 ).
2. HTML Overview.
3. HTML:

|  |  |  |
| --- | --- | --- |
| 1-Tags, Attributes, and elements. | 4- Lists. | 7-Tables. |
| 2-Page building. | 5-Links. | 8-Forms. |
| 3-Paragraph & Heading. | 6-Images, Video , Sound. | 9-Frames. |

1. Cascade Style sheet (CSS):

|  |  |
| --- | --- |
| 1-Syntax | 6- Table & Border, position & Align |
| 2-Ways to insert CSS:1. External style sheet
2. Internal style sheet
3. Inline style
 | 7-Navigation Bar |
| 3- Background & Multi B. | 8- Image gallery & Opacity |
| 4- Styles:1. Text (shadow) , Box (Shadow).
2. Font,
3. Color (transparency & opacity)
4. Color(linear & radial gradient ).
 | 9- Transform:1. Translate.
2. Rotate.
3. Scale.
4. Skewx
5. Skewy
 |
| 5- Link & List | 10- Transition & Animation |

1. Creating a Web Site (domain, sub-domain)
2. Hosting Website.

**Students must submit a project (15 %),** **Project Title: Creating a Website for student’s CV (Curriculum Vita) and uploading it in a free web-hosting.****Chapter 2: Adding Dynamicity with Javascript**1. Javascript:

|  |  |
| --- | --- |
| JS Introduction | JS events |
| JS definition: Internal (head or body) & External  | Arrays |
| JS Output | Conditions / swatches  |
| JS Syntax, statement, comments. | For , while, do-while, break  |
| Variables & Arithmetic and logical operations, assignment. | DOM |
| JS Data Types |  |

**Chapter 3: Introduction to Server-Side Scripting**1. Introduction to PHP.
2. PHP Global Definitions: Variable, Array etc.
3. Writing Simple PHP Programs.
4. Apachi Server for PHP scripting.

**Chapter 4: Introduction to MySQL Database.**1. Creating Database.
2. Creating Tables inside the Database.
 | Fahad Layth Malallah2-Hour 4/10/2015 |
| **18. Practical Topics (If there is any)** |  |
| All what is mentioned in theoretical part must be applied as practical in Labs. |  |
| **19. Examinations:*****1.*** Example, Question: What is HTML?.***2.******True or false type of exams:***Example: The following tag is used to add tables: **<img/>.*****3. Multiple choices:*** Java script is a web programming language for1. Server side. 2- Client Side. 3-None of them.
 |
| **20. Extra notes:**Involving students to do a Mini-Project simulating what they are learning. |
| **21. Peer review***Mr. Ali Ahmed.* |