



UNIVERSITI TEKNOLOGI MARA

CSC264: INTRODUCTION TO WEB AND MOBILE APPLICATION

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| Course Name (English) | INTRODUCTION TO WEB AND MOBILE APPLICATION APPROVED |
| Course Code | CSC264 |
| MQF Credit | 4 |
| Course Description | The course introduces the students to web programming. It covers, among others, mark-up language, client-side scripting, and server-side scripting. |
| Transferable Skills | Leadership Teamwork Communication Thinking and Scientific |
| Teaching Methodologies | Lectures, Blended Learning, Lab Work |
| CLO | CLO1 Determine the importance of Internet technologies with full potential of its capabilities. CLO2 Construct web pages using mark-up language, client-side scripting, and server-side scripting for user interaction. CLO3 Demonstrate communication skills in accomplishing industry-standard web/mobile application. CLO4 Demonstrate managerial skills in the development of commercial web applications with appropriate documentations that adhere to the current practice in the industry. |
| Pre-Requisite Courses | No course recommendations |
| Topics | |
| 1. Introduction to Internet 1.1) History of the internet 1.2) Uses of the internet 1.3) WWW and other internet application 1.4) Intranet application 1.5) Internet Service Provider 1.6) Connecting to the internet 1.7) How data travels through internet 1.8) Protocols | |
| 2. Introduction to HTML 2.1) Overview 2.2) Effective HTML page 2.3) Elements, attributes, character references, & comments 2.4) Lengths, dates, & times 2.5) HTML Version Information 2.6) The document head & body 2.7) HTML structure bodies 2.8) HTML structure: Text 2.9) HTML structure: List 2.10) HTML structure: Table | |
| 3. HTML and Multimedia on the web 3.1) Links, Objects, and Images 3.2) Alignment and font style 3.3) Forms 3.4) Adding image, audio, video, animation, & virtual reality on the web | |

4. Cascading Style Sheet

- 4.1) Introduction to CSS
- 4.2) Adding style with CSS
- 4.3) Adding and changing elements with CSS
- 4.4) Creating and styling web forms

5. Introduction to Client-Side scripting

- 5.1) Concept of Client-Side scripting
- 5.2) How does Client-Side scripting work?
- 5.3) Variable and syntax
- 5.4) Using Client-Side scripting arrays
- 5.5) Built-in methods
- 5.6) Logical structures
- 5.7) Looping
- 5.8) String-Handling

6. Basic Client-Side Scripting

- 6.1) Date and Time objects
- 6.2) Math Object
- 6.3) Functions
- 6.4) Creating objects in Client-Side scripting
- 6.5) Regular expressions

7. Mobile Application

- 7.1) Introduction to jQuery
- 7.2) Adding jQuery to a page
- 7.3) Selecting elements with jQuery
- 7.4) Working with HTML using jQuery
- 7.5) Reacting to Events with JavaScript and jQuery

8. Introduction to Server-Side Scripting

- 8.1) How does a Server-Side scripting work?
- 8.2) Introduction to server
- 8.3) Server-Side requirements
- 8.4) Using conditional statements
- 8.5) Repeating actions with loops
- 8.6) Using functions
- 8.7) Using sessions

9. Basic Server-Side Scripting

- 9.1) Administering database
- 9.2) Communicating with the database from PHP scripts
- 9.3) Validating web forms with JavaScript and PHP

10. Advanced Server-Side Scripting

- 10.1) Building a members-only website
- 10.2) Creating the user database
- 10.3) Creating web forms
- 10.4) Adding authenticated pages

| Assessment Breakdown | % |
|-----------------------|---------|
| Continuous Assessment | 100.00% |

| Details of Continuous Assessment | Assessment Type | Assessment Description | % of Total Mark | CLO |
|----------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------|-----------------|------|
| | Group Project | Group Project - assessment on proposal (10%), features and completeness (10%), final reports and documentations (15%) | 35% | CLO4 |
| | Lab Exercise | Lab Assignment 1 Lab Assignment 2 | 10% | CLO2 |
| | Lab Exercise | Individual project | 15% | CLO2 |
| | Presentation | Presentation to assess the group project | 10% | CLO3 |
| | Quiz | Quiz1 3% Quiz2 3% Quiz3 4% | 10% | CLO1 |
| | Test | Test 1 | 10% | CLO1 |
| | Test | Test 2 | 10% | CLO1 |

| Reading List | Recommended Text | • Robin Nixon 2018, <i>Learning PHP, MySQL and JavaScript</i> , 5 Ed., O'Reilly Media [ISBN: 1491978910] |
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| | Reference Book Resources | <ul style="list-style-type: none"> • Robin Nixon 2014, <i>Learning PHP, MySQL & JavaScript</i>, 4 Ed., O'Reilly & Associates Incorporated [ISBN: 9781491918661] • Robert W. Sebesta 2014, <i>Programming the World Wide Web</i>, 7 Ed., Pearson Higher Ed [ISBN: 9780133776096] • Mike O'Kane 2014, <i>A Web-Based Introduction to Programming</i>, 3 Ed., Carolina Academic Press [ISBN: 1611634709] • Steve Prettyman 2015, <i>Learn PHP 7</i>, Apress [ISBN: 9781484217290] • Larry Sanchez 2017, <i>Web Programming With Html, Css, Bootstrap, Javascript, JQuery, Php, and Mysql</i>, 1 Ed., CreateSpace Independent Publishing Platform [ISBN: 9781542604758] |
| Article/Paper List | This Course does not have any article/paper resources | |
| Other References | This Course does not have any other resources | |