Kingdom of Saudi Arabia
Ministry of Higher Education
College of Computer & Information Sciences
Majmaah University

College of Computer
and Information Sciences
كلية علوم الحاسب والمعلومات

جامعة المجمعة
Majmaah University

Course Profile

Course Name:-	**Elective Profession Course 1**
Course Code:-	**IT 250**
Academic Year:-	**2014-2015**
Semester:-	**First**

Course Overview

This course is introducing the following topics-: Managing the Application Life Cycle, Building the User Interface by Using HTML5: Text, Graphics, and Media, Building the User Interface by Using HTML5: Organization, Input, and Validation, Understanding CSS Essentials: Content Flow, Positioning, and Styling. Understanding CSS Essentials: Layouts, Managing Text Flow by Using CSS, Managing the Graphical Interface by Using CSS. Understanding JavaScript and Coding Essentials. Creating Animations, Working with Graphics, and Accessing Data. JavaScript Coding for the Touch Interface, Device and Operating System Resources, and More

Course Details

Level:-	5
Credit:-	2(2-0-0)
Pre-Requisites:-	CS 120
Co- Requisites:-	

Learning Outcomes of Course

After successful completion of this course, student will be able to-

1. Manage the Web Development Application Life Cycle
2. Build the User Interface by Using HTML5
3. Format the User Interface by Using CSS
4. Code by Using JavaScript

5. Develop Robust Web-Based Applications

Course Assessment

Name of Assessment Task	Weight of Assessment	Week Due
1. Midterm Exam-1	**15%**	
2. Midterm Exam-2	**15%**	
3. Quizzes + Assignments	**10%**	
4. Microsoft Exam	**20%**	
5. Final Exam	**40%**	

Assessment Task and Learning Outcomes Alignment

Assessment Task Name	Course Learning Outcomes				
	1	2	3	4	5
1. Midterm Exam-1	√	√	√		
2. Midterm Exam-2			√	√	
3. Quizzes	√	√	√	√	
4. Assignments		√	√	√	√
5. Microsoft Exam	√	√	√	√	√
6. Final Exam	√	√	√	√	√

Teaching Contact Details

Name of Course Coordinator:-	Ahsan Ahmed
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Lab/Tutorial Instructor:-	Ahsan Ahmed
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Office Hours:-	MONDAY: 12:00 Noon - 02:00 PM
Office Number:-	R-024-1-19-1, First Floor, CCIS Building
Office Phone Number:-	00966-16404-2536

Details of Required Text Book

Book Name	Authors Name	Publisher	Year	Edition
Microsoft Official Academic Course, 2014, 98-375 MTA HTML5 Application Development Fundamentals, Wiley [ISBN: 978-1-118-35993-8]	Microsoft Official Academic	John Wiley & Sons	2014	

Details of Required Reference Books

Book Name	Authors Name	Publisher	Year	Edition
Introduction to Web Development using HTML 5	Dr. Kris Jamsa	Jones & Bartlett Learning	2013	
The Complete Reference	Thomas A. Powell	Mc-Graw Hill	1999	2nd
HTML & CSS: The Complete Reference	Thomas A. Powell	Mc-Graw Hill	2010	5th

IT Resources

The following IT Resources will require to access-

- Web References and downloads:
  - http://www.w3schools.com/
  - http://www.apachefriends.org/en/xampp.html
  - http://validator.w3.org/
- Faculty Website: http://faculty.mu.edu.sa/a.ahmed
- College Computer Laboratory for Practical Implementation

Course Schedule

Course Topics	Book's Chapter	Event Name	Week Due
Understanding Platform Fundamentals: What's New in HTML5?, Understanding and Managing: Application States, Understanding Touch Interfaces and Gestures, Debugging and Testing HTML5 Apps, Publishing an Application to a Store	HTML5 Application Development Fundamentals, Chapter-1 Managing the Application Life Cycle		Week-1

Understanding the Essentials of HTML, Choosing and Configuring HTML5 Tags to Display Text Content, Choosing and configuring HTML5 Tags to display Graphics, Choosing and Configuring HTML5 Tags to Play Media	Introduction to Web Development using HTML 5, Chapter 2- Building the User Interface by Using HTML5: Text, Graphics, and Media		Week-2
Choosing and Configuring HTML5 Tags to Organize Content and Forms, Choosing and Configuring HTML5 Tags for Input and Validation	HTML5 Application Development Fundamentals, Chapter-3 Building the User Interface by Using HTML5: Organization, Input, and Validation		Week-3
Understanding CSS Essentials: POSITIONING Individual Elements, Managing Content Overflow	HTML5 Application Development Fundamentals, Chapter-4- Understanding CSS Essentials: Content Flow, Positioning, and Styling	Quiz-1, Assignment-1 Announced	Week-4
Arranging User Interface (UI) Content by using CSS, Using a Flexible Box to Establish Content Alignment, Direction, and Orientation, Using Grid Layouts to Establish Content Alignment, Direction, and Orientation	HTML5 Application Development Fundamentals, Chapter-5- Understanding CSS Essentials: Layouts	Quiz-2, Assignment-1 Due (to be submitted at the beginning of this class)	Week-5
Managing the Flow of Text Content by Using CSS, Understanding and Using Regions to Flow Text Content between Multiple Sections	HTML5 Application Development Fundamentals, Chapter-6- Managing Text Flow by Using CSS	Quiz-3	Week-6
Managing the Graphical Interface with CSS: Creating Graphics Effect, Understanding Typography and the Web Open Font Format	HTML5 Application Development Fundamentals, Chapter-7- Managing the Graphical Interface by Using CSS	**First Midterm Exam**	Week-7
Applying 2D and 3D Transformations: Understanding 3D Perspective, Transitions, and Animations, Applying SVG Filter Effects, Using Canvas to Enhance the GUI	HTML5 Application Development Fundamentals, Chapter-7- Managing the Graphical Interface by Using CSS	Assignment-2 Announced	Week-8
Managing and Maintaining JavaScript: Creating and Using	HTML5 Application Development	Assignment-2 Due (to be	Week-9

Functions, Using jQuery and Other Third-Party Libraries	Fundamentals, Chapter-8- Understanding JavaScript and Coding Essentials	submitted at the beginning of this class) Assignment-3Announced	
Updating the UI by Using JavaScript: Locating and Accessing Elements, Listening and Responding to Events, Showing and Hiding Elements, Updating the Content of Elements, Adding Elements	HTML5 Application Development Fundamentals, Chapter-8- Understanding JavaScript and Coding Essentials	Assignment-3 Due (to be submitted at the beginning of this class)	Week-10
Coding Animations by Using JavaScript: Creating Animations. Working with Images, Shapes, and Other Graphics, Sending and Receiving Data	HTML5 Application Development Fundamentals, Chapter-9- Creating Animations, Working with Graphics, and Accessing Data	**Second Midterm Exam**	Week-11
Loading and Saving Files, Using JavaScript to Validate User Form Input, Understanding and Using Cookies, Understanding and Using Local Storage	HTML5 Application Development Fundamentals, Chapter-9- Creating Animations, Working with Graphics, and Accessing Data	Quiz-4, Assignment-4Announced	Week-12
Responding to the Touch Interface: Capturing and Responding to Gestures. Coding Additional HTML5 APIs: Coding to Capture Geo Location, Understanding Web Workers, Understanding Web Sockets, Using File API for File Uploads.	HTML5 Application Development Fundamentals, Chapter-10- JavaScript Coding for the Touch Interface, Device and Operating System Resources, and More	Assignment-4 Due (to be submitted at the beginning of this class)	Week-13
Accessing Device and Operating System Resources: Accessing In-Memory Resources, Accessing Hardware Capabilities, Understanding Global Positioning System (GPS), Understanding Accelerometer, Accessing a Camera	HTML5 Application Development Fundamentals, Chapter-10- JavaScript Coding for the Touch Interface, Device and Operating System Resources, and More		Week-14
		Final Exam Date and Time: TBA	Exam Week

Referencing Style

The **American Psychological Association (APA)** referencing style must be use for all submissions of this course.

Course Assessment Task

Assessment Name:-	**Midterm Exam-1**
Description of Task Assessment:-	This assessment is aligned to learning outcomes 1, 2 and 3. In that regard, the assignment contains questions that assess: 1) Manage the Web development Application life cycle, 2) build the user interface by using HTML 5, 3) Formatting the user interface by using CSS.
Task Assessment Due Week/Date:-	**Week 7**
Return Week/Date to Students:-	Week 8 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	15%
List of Learning Outcomes Assessed:-	1. Manage the Web development Application life cycle. 2. Build the user interface by using HTML 5 3. Format the User Interface by using CSS.

Assessment Name:-	**Midterm Exam-2**
Description of Task Assessment:-	This assessment is aligned to learning outcomes 3 and 4. In that regard, the assignment contains questions that assess: 3) Format the User Interface by using CSS, 4) Learning of client-side programming using JavaScript.
Task Assessment Due Week/Date:-	**Week 11**
Return Week/Date to Students:-	Week 12 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	15%
List of Learning Outcomes Assessed:-	3. Format the User Interface by using CSS. 4. Code by Using JavaScript.

Assessment Name:-	**Quiz-1**
Description of Task Assessment:-	This assessment is aligned to learning outcomes 2 and 3. In that regard, the assignment contains

	questions that assess: 2) Building User Interface using HTML5, 3) Format the User Interface by Using CSS.
Task Assessment Due Week/Date:-	**Week 4**
Return Week/Date to Students:-	Week 5 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	1%
List of Learning Outcomes Assessed:-	2. Building User Interface using HTML5 3. Format the User Interface by Using CSS.

Assessment Name:-	**Quiz-2**
Description of Task Assessment:-	This assessment is aligned to learning outcomes 3. In that regard, the assignment contains questions that assess: 3) Format the User Interface by Using CSS.
Task Assessment Due Week/Date:-	**Week 5**
Return Week/Date to Students:-	Week 6 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	1%
List of Learning Outcomes Assessed:-	3. Format the User Interface by Using CSS.

Assessment Name:-	**Quiz-3**
Description of Task Assessment:-	This assessment is aligned to learning outcomes 3 and 4. In that regard, the assignment contains questions that assess: 3) Format the User Interface by Using CSS, 4) Code by Using JavaScript
Task Assessment Due Week/Date:-	**Week 6**
Return Week/Date to Students:-	Week 7 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	1.5%
List of Learning Outcomes Assessed:-	3. Format the User Interface by using CSS. 4. Code by Using JavaScript.

Assessment Name:-	**Quiz-4**
Description of Task Assessment:-	This assessment is aligned to learning outcomes 1 and 4. In that regard, the assignment contains questions that assess: 1) Manage the Web Development Application Life Cycle, 4) Code by Using JavaScript
Task Assessment Due Week/Date:-	**Week 12**
Return Week/Date to Students:-	Week 13 (Evaluated copies will be shown to students)

Weight of Task Assessment:-	1.5%
List of Learning Outcomes Assessed:-	1. Manage the Web Development Application Life Cycle. 4. Code by Using JavaScript.

Assessment Name:-	**Assignment-1**
Description of Task Assessment:-	This assignment is aligned to learning outcomes 2 and 3. In that regard, the assignment contains questions that assess: 2) Building User Interface using HTML5, 3) Format the User Interface by using CSS.
Task Assessment Due Week/Date:-	**Week 4**
Return Week/Date to Students:-	Week 5 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	1%
List of Learning Outcomes Assessed:-	2. Building User Interface using HTML5 3. Format the User Interface by Using CSS.

Assessment Name:-	**Assignment-2**
Description of Task Assessment:-	This assignment is aligned to learning outcomes 3 and 4. In that regard, the assignment contains questions that assess: 3) Format the User Interface by using CSS, 4) Code by Using JavaScript
Task Assessment Due Week/Date:-	**Week 8**
Return Week/Date to Students:-	Week 9 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	1%
List of Learning Outcomes Assessed:-	3. Format the User Interface by using CSS 4. Code by using JavaScript

Assessment Name:-	**Assignment-3**
Description of Task Assessment:-	This assignment is aligned to learning outcomes 4. In that regard, the assignment contains questions that assess: 4) Code by Using JavaScript
Task Assessment Due Week/Date:-	**Week 9**
Return Week/Date to Students:-	Week 10 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	1.5%
List of Learning Outcomes Assessed:-	4. Code by Using JavaScript

Assessment Name:-	**Assignment-4**
Description of Task Assessment:-	This assignment is aligned to learning outcomes 4

	and 5. In that regard, the assignment contains questions that assess: 4) Code by Using JavaScript, 5) Develop Robust Web-Based Applications
Task Assessment Due Week/Date:-	**Week 12**
Return Week/Date to Students:-	Week 13 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	1.5%
List of Learning Outcomes Assessed:-	4. Code by Using JavaScript 5. Develop Robust Web-Based Applications

Assessment Name:-	**Final Exam**
Weight of Task Assessment:-	**40%**
Duration:-	3 Hours
Warning:-	No Calculator Permitted Exam Question Paper will be given to students. Exam will be Closed Books.
List of Learning Outcomes Assessed:-	1. Manage the Web Development Application Life Cycle 2. Build the User Interface by Using HTML5 3. Format the User Interface by Using CSS 4. Code by Using JavaScript 5. Develop Robust Web-Based Applications