Republic of Yemen
Minster of Higher Education
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Sana'a University
Faculty of Computer & IT
Quality Assurance Unit

الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة ـ صنعاء
كلية الحاسوب وتكنولوجيا المعلومات
وحدة ضمان الجودة

Course Specification of Web design

Course No (..................)

2020/2021

Head of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Academic Development center and Quality
Dr. Ahmed Al-shalabi	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
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I. Course Identification and General Information:

1	Course Title:	Web design				
2	Course Code & Number:					
3	Credit hours:	**C.H**				**TOTAL**
		Th.	Seminar	Pr	Tr.	
		2	-	2	-	3
4	Study level/ semester at which this course is offered:	2nd Level -2nd Semester				
5	Pre –requisite (if any):	Programming Fundamentals				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered:	Information Technology				
8	Language of teaching the course:	English/Arabic				
9	Study System	Term Based System				
10	Mode of delivery:	Full Time				
11	Location of teaching the course:	Faculty of Computer and Information Technology				
12	Prepared By:	Dr.Ibrahim Al-Baltah				
13	Date of Approval					

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II. Course Description:

This is an introductory course on web based solutions. It aims at providing students with the fundamental aspects of web design with more focus on the client-side processes. This course s the essential web design topics including HTML5 for creating web pages, CSS3 for styling s, and JavaScript for adding dynamic behavior to the web pages.

III. Course Intended learning outcomes (CILOs) of the course (maximum 8CILOs)		Referenced PILOs (Onl write code number of referenced Program Intended learning outcomes)
a.1	Know the theoretical aspects, tools and techniques required for designing effective and modern web sites.	A1
a.2	Demonstrate competency in the process of designing modern and responsive websites.	A2
b.1	Choose the most suitable HTML tags for representing the content of web sites properly.	B2
b.2	Design modern and responsive web sites for different business requirements.	B2
c.1	Utilize varies techniques, tools, and libraries to design and deliver dynamic web sites.	C1
c.2	Use scripting languages to add interactive components to web pages.	C1

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d.1	Work effectively either individually or in groups to accomplish the assigned task.	D2
d.2	Effectively communicate, leadership management, team cooperation, labor division and moderate the integration of ability.	D1

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1- Know the theoretical aspects, tools and techniques required for designing effective and modern web sites.	Active lectures, interactive class discussions, exercises and home works, laboratory based session, problem solving, interactive class discussions	Written tests, assignments
a2- Demonstrate competency in the process of designing modern and responsive websites.	Active lectures, interactive class discussions, exercises and home works, laboratory based session, problem solving, interactive class discussions	Written tests, assignments

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:

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Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1- Choose the most suitable HTML tags for representing the content of web sites properly.	Active lectures, interactive class discussions, exercises and home works, laboratory based session, problem solving, interactive class discussions	Written tests, assignments, Coursework Activities, practical lab sessions
b2- Design modern and responsive web sites for different business requirements.	Active lectures, interactive class discussions, exercises and home works, laboratory based session, problem solving, interactive class discussions	Written tests, assignments, Coursework Activities, practical lab sessions

(C) Alignment Course Intended Learning Outcomes of **Professional and Practical Skills** to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
C1- Utilize varies techniques, tools, and libraries to design and deliver dynamic web sites.	Exercises and home works, laboratory based session, directed self- study/ Independent learning, Problem solving	Written tests, assignments, Coursework Activities, project, practical lab sessions
C2- Use scripting languages to add interactive components to web pages.	Exercises and home works, laboratory based session, directed self- study/ Independent learning, Problem solving	Written tests, assignments, Coursework Activities, project, practical lab sessions

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(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1- Work effectively either individually or in groups to accomplish the assigned task.	Project, directed self-study/ independent learning, team work (group learning)	Assignments and project
d2- Effectively communicate, leadership management, team cooperation, labor division and moderate the integration of ability.	Project, directed self-study/ independent learning, team work (group learning)	Assignments and project

IV. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	contact hours
1	Introduction	a1, a2	- The internet versus the web. - Browsers. - Web page addresses (URL). - The anatomy of a web page. - Quick introduction to HTML, CSS, and JavaScript/DOM. - How browsers display web pages?	2	4

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			- A Multitude of devices - Sticking with the standards - Progressive enhancement - Responsive web design - One web for all (Accessibility) - Site performance - The basic steps for page production		
2	HTML5	a1, a2, b1, c1, d1	- Lists: Unordered lists, Ordered lists, Description lists. - Preformatted text - Figures - Organizing page content - Text-level semantic elements - Adding Links: Anchor syntax, the href attribute (absolute URLs, relative URLs), linking techniques. - Tables Forms	4	8
4	Cascading Style Sheets (CSS)	a1, a2, b2, c1, d1	- The Benefits of CSS - How Style Sheets Work - Inheritance, Conflicting styles - CSS units of measurements - The box model - Formatting text	4	8

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				- Font Formatting - Selector Types, ID selectors, Class selectors, Specificity - Colors and backgrounds - Transitions, transforms, and animation - Flexible boxes with CSS flexbox - CSS grid layout		
5	JavaScript & jQuery	a1, a2, b2, c1, c2, d1	- What Is JavaScript? - What Javascript can do? - Adding Javascript to a Page - The basics: Variables, Data types, Arrays, Comparison operators, Mathematical Operators, Control Statements, Functions, The Browser Object, Events - Document Object Model (DOM): The node tree, Accessing DOM nodes, Manipulating nodes, JavaScript Libraries - Introduction to jQuery	3	6

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			- Adding jQuery to HTML page - jQuery Syntax - The Document Ready Event - jQuery Selectors - jQuery Event Methods - jQuery Effects		
6	Project Discussion	b1, b2, c1, c2, d1		1	2
Number of Weeks /and Units Per Semester				**14**	**28**

B - Practical Aspect: (if any)				
Order	**Tasks/ Experiments**	**Number of Weeks**	**contact hours**	**Learning Outcomes**
1	- Explore demos of HTML5, CSS3, JavaScript, canvas and jQuery. - Examples of World Wide Web, HTML, HTTP, HTTPS. - Explore some web browsers. - Explore some Search Engines and Social Media, Web Services, Social Applications. - Show some examples of mobile website and desktop websites.	**2**	**4**	a1, a2
2	- Creating and Editing HTML5 documents. - First HTML5 example. - Examples of paragraphs, headings, thematic breaks, blockquotes, emphasis, strong and monospace	**3**	**6**	a1, a2, b1, c1, d1

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	- Unordered lists, Ordered lists, Description lists. - Preformatted text, Figures - Organizing page content: main content, headers, footers, sections, articles, navigation, aside (sidebars), addresses. - Text-level semantic elements: emphasized text (bold), italic, strike-through, underline, small, short quotations, abbreviations and acronyms, citations, defining terms, subscript and superscript, marked, deleted, inserted formatting, dates and times, generic elements (DIV AND SPAN), character escapes, HTML background colour, text direction, HTML computer code elements, alignment, font color, font type, font size, horizontal line, add an image.			
3	- Absolute URLs, relative URLs, linking to pages on the web, linking within your own site, linking within a directory, linking to a lower directory, linking to a higher directory, site root relative pathnames, linking to a specific point in a page, linking to a fragment in another document - Targeting a new browser window - Mail links - Simple table, table with headers, spanning cells, cell padding and spacing, captions and summaries, table accessibility, wrapping up tables. - New HTML5 form input types and attributes (color, date, datetime, datetime-local, email, month, number, range, search, tel, time, url, week) - New HTML5 form autocomplete attribute, datalist element and section elements.	2	4	a1, a2, b1, c1, d1

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	- Text entry controls, submit and reset buttons, radio and checkbox buttons, pull-down and scrolling menus, file selection and upload control, hidden controls, Form layout and design			
4	- Using inline styles, embedded style sheet, inheritance in style sheets, and linking an external style sheet. - Absolute and relative positioning of elements, adding background images and indentation, and setting the dimensions of elements. - The box model: The element box, Specifying box dimensions, Sizing the Content Box, the border-box Model, Handling Overflow, Padding, Borders, Margins, Assigning display types, Box drop shadows - Formatting text: Color, Alignment, Decoration, Transformation, Indentation, Letter Spacing, Line Height, Direction, Word Spacing, CSS3 Text Overflow, CSS3 Text Shadow - Font Formatting: The Font Properties, specifying the font name, Font limitations, Generic font families, Specifying font size, Working with keywords, Font weight, Font style, Changing Text Color - Selector Types, ID selectors, Class selectors, Specificity	3	6	a1, a2, b2, c1, d1
5	- Specifying colors in style sheets, link pseudo-classes, background images, Multiple backgrounds - CSS transitions, CSS transforms, keyframe animation - Setting up a flexbox container, controlling the "flow", specifying flow direction, wrapping onto multiple lines, putting it together with flex-flow,	2	4	a1, a2, b2, c1, d1

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	controlling the alignment of flex items, expanding items (flex-grow), squishing items (flex-shrink), providing an initial size (flex-basis), changing the order of flex items - declaring grid display - different examples of sing grid layout			
6	- Create, run and modify a simple script. - Using alert dialog, prompt dialogs. - Variables, control statements, functions, operators and arrays. - Objects and events examples. - DOM examples. - Adding jQuery to HTML page and some jQuery examples - The Document Ready Event and jQuery Selectors examples - jQuery Event Methods and jQuery Effects examples	2	4	a1, a2, b2, c1, c2, d1
Number of Weeks /and Units Per Semester			28	

V. Teaching strategies of the course:

Active lectures
Seminar/ project/presentation
Interactive class discussions
Exercises and home works
Laboratory based session
Directed self- study/ Independent learning

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Problem solving
Team work (group learning)

VI. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Every student should design a single web page to display some information such as books information including images, video information page, news page.	a1,a2,b1,b2,c1, c2,d1	9th	5
2	Students should be divided into groups, and each group is required to design a complete modern and responsive web sites that covers all the concepts of this course. The web site should be different from other groups.	a1,a2,b1,b2,c1, c2,d1,d2	15th	15

VII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	9th and 15th	20	20%	a1,a2,b1,b2,c1, c2,d1,d2

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2	Mid Exam	7th	10	10%	a1,a2,b1,b2,c1,c2
3	Practical Exam	15th	10	10%	a1,a2,b1,b2,c1,c2
4	Final Exam	16th	60	60%	a1,a2,b1,b2,c1,c2

VIII. Learning Resources:

- *Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).*

1- Required Textbook(s) (maximum two).

1- J. N. Robbins, (2018), "Learning Web Design - A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics", 5th Edition, O'Reilly.
2- Paul J. Deitel, Harvey M. Deitel, and Abbey Deitel, (2011), "Internet and World Wide Web -How To Program", 5th Edition, Prentice Hall.

2- Essential References.

1- James A.Brannan, (2010), "Brilliant HTML and CSS", 1st Edition, Pearson Education Canada.
2- C. Meloni, (2012), "Sams TeachYourself HTML, CSS and JavaScript All in One", 1st Edition, Pearson.
3- Jon Duckett, (2008), "Beginning Web Programming with HTML, XHTML, and CSS", 2nd Edition, Wrox.

3- Electronic Materials and Web Sites *etc*.

1- http://www.w3schools.com/
2- https://www.tutorialspoint.com/html_online_training/index.asp
3- https://www.tutorialspoint.com/css_online_training/index.asp
4- https://www.tutorialspoint.com/javascript/index.htm

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IX. Course Policies:	
Unless otherwise stated, the normal course administration policies and rules of the Faculty of Computer and Information Technology apply. For the policy, see: ---------------------------------- The University Regulations on academic misconduct will be strictly enforced. Please refer to -----------	
1	**Class Attendance:** A student should attend not less than 75 % of total hours of the subject; otherwise he will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic
2	**Tardy:** For late in attending the class, the student will be initially notified. If he repeated lateness in attending class, he will be considered as absent.
3	**Exam Attendance/Punctuality:** A student should attend the exam on time. He is Permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.
4	**Assignments & Project** The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time.
5	**Cheating:** For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.
6	**Plagiarism:** Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university.
7	**Other policies:** - Mobile phones are not allowed to use during a class lecture. It must be closed, otherwise the student will be asked to leave the lecture room - Mobile phones are not allowed in class during the examination. - Lecture notes and assignments my given directly to students using soft or hard copy

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Faculty of Computer & Information Technology

Department of Computer Science

Program of Computer Science

Course Specification of Web design

Course No (....................)

2020/2021

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Template for Course Plan (Syllabus)

I. - Information about Faculty Member Responsible for the Course:								
Name of Faculty Member		**Office Hours**						
Location& Telephone No.		**SAT**	**SUN**	**MON**	**TUE**	**WED**	**THU**	
E-mail								

II. Course Identification and General Information:						
1-	**Course Title:**	Web design				
2-	**Course Number & Code:**					
3-	**Credit hours:**	**C.H**				**Total**
		Th.	**Seminar**	**Pr.**	**F. Tr.**	
		2		2		3
4-	**Study level/year at which this course is offered:**	2nd Level -2nd Semester				
5-	**Pre –requisite (if any):**	Programming Fundamentals				
6-	**Co –requisite (if any):**	None				
7-	**Program (s) in which the course is offered**	Information Technology				
8-	**Language of teaching the course:**	English/Arabic				
9-	**System of Study:**	Term Based System				
10-	**Mode of delivery:**	Full Time				

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11-	Location of teaching the course:	Faculty of computer science and technology, Sanaa University

III. Course Description:

This is an introductory course on web based solutions. It aims at providing students with t

fundamental aspects of web design with more focus on the client-side processes. This cou

the essential web design topics including HTML5 for creating web pages, CSS3 for styling w

and JavaScript for adding dynamic behavior to the web pages.

IV. Intended learning outcomes (ILOs) of the course:

- Brief summary of the knowledge or skill the course is intended to develop:
  1. Know the theoretical aspects, tools and techniques required for designing effective and
     modern web sites.
  2. Demonstrate competency in the process of designing modern and respon websites.
  3. Choose the most suitable HTML tags for representing the content of wel sites properly.
  4. Design modern and responsive web sites for different business requireme
  5. Utilize varies techniques, tools, and libraries to design and deliver dynan web sites.
  6. Use scripting languages to add interactive components to web pages.
  7. Work effectively either individually or in groups to accomplish the assig task.
  8. Effectively communicate, leadership management, team cooperation, lab division and moderate the integration of ability.

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V. Course Content:

• Distribution of Semester Weekly Plan of Course Topics/Items and Activities.

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	Introduction	1st and 2nd	4
2	HTML5	3rd, 4th, 5th and 6th	8
3	Mid Exam	7th	2
4	Cascading Style Sheets (CSS)	8th ,9th , 10th, 11th	8
5	JavaScript & jQuery	12th, 13th, 14th	6
6	Project Discussion	15th	2
7	Final Exam	16th	2
Number of Weeks /and Units Per Semester		**16**	**30**

B – Practical Aspect: *(if any)*

Order	Topics List	Week Due	Contact Hours
1	- Explore demos of HTML5, CSS3, JavaScript, canvas and jQuery. - Examples of World Wide Web, HTML, HTTP, HTTPS.	**1st and 2nd**	**4**

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	- Explore some web browsers. - Explore some Search Engines and Social Media, Web Services, Social Applications. - Show some examples of mobile website and desktop websites.		
2	- Creating and Editing HTML5 documents. - First HTML5 example. - Examples of paragraphs, headings, thematic breaks, blockquotes, emphasis, strong and monospace - Unordered lists, Ordered lists, Description lists. - Preformatted text, Figures - Organizing page content: main content, headers, footers, sections, articles, navigation, aside (sidebars), addresses. - Text-level semantic elements: emphasized text (bold), italic, strike-through, underline, small, short quotations, abbreviations and acronyms, citations, defining terms, subscript and superscript, marked, deleted, inserted formatting, dates and times, generic elements (DIV AND SPAN), character escapes, HTML background colour, text direction, HTML computer code elements, alignment, font color, font type, font size, horizontal line, add an image.	3th, 4th, 5th	6
3	- Absolute URLs, relative URLs, linking to pages on the web, linking within your own site, linking within a directory, linking to a lower directory, linking to a higher directory, site root relative pathnames, linking to a specific point in a page, linking to a fragment in another document - Targeting a new browser window - Mail links - Simple table, table with headers, spanning cells, cell padding and spacing, captions and summaries, table accessibility, wrapping up tables.	6th and 7th	4

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	- New HTML5 form input types and attributes (color, date, datetime, datetime-local, email, month, number, range, search, tel, time, url, week) - New HTML5 form autocomplete attribute, datalist element and section elements. - Text entry controls, submit and reset buttons, radio and checkbox buttons, pull-down and scrolling menus, file selection and upload control, hidden controls, Form layout and design		
4	- Using inline styles, embedded style sheet, inheritance in style sheets, and linking an external style sheet. - Absolute and relative positioning of elements, adding background images and indentation, and setting the dimensions of elements. - The box model: The element box, Specifying box dimensions, Sizing the Content Box, the border-box Model, Handling Overflow, Padding, Borders, Margins, Assigning display types, Box drop shadows - Formatting text: Color, Alignment, Decoration, Transformation, Indentation, Letter Spacing, Line Height, Direction, Word Spacing, CSS3 Text Overflow, CSS3 Text Shadow - Font Formatting: The Font Properties, specifying the font name, Font limitations, Generic font families, Specifying font size, Working with keywords, Font weight, Font style, Changing Text Color - Selector Types, ID selectors, Class selectors, Specificity	8th, 9th, and 10th	6
5	- Specifying colors in style sheets, link pseudo-classes, background images, Multiple backgrounds - CSS transitions, CSS transforms, keyframe animation - Setting up a flexbox container, controlling the "flow", specifying flow direction, wrapping	11th and 12th	4

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	onto multiple lines, putting it together with flex-flow, controlling the alignment of flex items, expanding items (flex-grow), squishing items (flex-shrink), providing an initial size (flex-basis), changing the order of flex items declaring grid display different examples of sing grid layout		
6	- Create, run and modify a simple script. - Using alert dialog, prompt dialogs. - Variables, control statements, functions, operators and arrays. - Objects and events examples. - DOM examples. - Adding jQuery to HTML page and some jQuery examples - The Document Ready Event and jQuery Selectors examples - jQuery Event Methods and jQuery Effects examples	13th and 14th	4
7	**Final exam**	15th	2
	Number of Weeks /and Units Per Semester	**15**	**30**

VI. Teaching strategies of the course:
Active lectures
Seminar/ project/presentation
Interactive class discussions
Exercises and home works
Laboratory based session
Directed self- study/ Independent learning
Problem solving
Team work (group learning)

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VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Every student should design a single web page to display some information such as books information including images, video information page, news page.	a1,a2,b1,b2,c1, c2,d1	9th	5
2	Students should be divided into groups, and each group is required to design a complete modern and responsive web sites that covers all the concepts of this course. The web site should be different from other groups.	a1,a2,b1,b2,c1, c2,d1,d2	15th	15

VIII. Schedule of Assessment Tasks for Students During the Semester:

Assessment	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Assignments	9th and 15th	20	20%
2	Mid Exam	7th	10	10%
3	Practical Exam	15th	10	10%
4	Final Exam	16th	60	60%

IX. Learning Resources:

• Written in the following order: (Author – Year of publication – Title – Edition – Place of publication – Publisher).

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1- Required Textbook(s) (maximum two).
1- J. N. Robbins, (2018), "Learning Web Design - A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics", 5th Edition, O'Reilly.   2- Paul J. Deitel, Harvey M. Deitel, and Abbey Deitel, (2011), "Internet and World Wide Web -How To Program", 5th Edition, Prentice Hall.
2- Essential References.
1- James A.Brannan, (2010), "Brilliant HTML and CSS", 1st Edition, Pearson Education Canada.   2- C. Meloni, (2012), "Sams TeachYourself HTML, CSS and JavaScript All in One", 1st Edition, Pearson.   3- Jon Duckett, (2008), "Beginning Web Programming with HTML, XHTML, and CSS", 2nd Edition, Wrox.
3- Electronic Materials and Web Sites *etc*.
1- http://www.w3schools.com/   2- https://www.tutorialspoint.com/html_online_training/index.asp   3- https://www.tutorialspoint.com/css_online_training/index.asp   4- https://www.tutorialspoint.com/javascript/index.htm

X. Course Policies:	
Unless otherwise stated, the normal course administration policies and rules of the Faculty of Computer and Information Technology apply. For the policy, see: ---------------------------------- The University Regulations on academic misconduct will be strictly enforced. Please refer to -----------	
1	**Class Attendance:** A student should attend not less than 75 % of total hours of the subject; otherwise he will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic
2	**Tardy:** For late in attending the class, the student will be initially notified. If he repeated lateness in attending class, he will be considered as absent.
3	**Exam Attendance/Punctuality:**

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	A student should attend the exam on time. He is Permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.
4	**Assignments & Project** The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time.
5	**Cheating:** For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.
6	**Plagiarism:** Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university.
7	**Other policies:** - Mobile phones are not allowed to use during a class lecture. It must be closed, otherwise the student will be asked to leave the lecture room - Mobile phones are not allowed in class during the examination. - Lecture notes and assignments my given directly to students using soft or hard copy

اللجنة الإشرافية

م.	الاســـــم	الصــــــــفة	التوقيع
١	أ.م.د. عبد الماجد الخليدي	نائب عميد الكلية للشؤون الأكاديمية	
٢	أ.م.د. احمد مجاهد	نائب عميد مركز التطوير الأكاديمي وضمان الجودة	
٣	د. حسين الأشول	ممثل المركز في الكلية	
٤	أ.د. إبراهيم المطاع	نائب رئيس الجامعة للشؤون الأكاديمية	

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