



COLLEGE OF INFORMATION TECHNOLOGY
DEPARTMENT OF MULTIMEDIA SCIENCE
COURSE SYLLABUS/ SPECIFICATION

Course Code & Title: ITMS 205 - Internet Applications and Services

Weight: (2 - 2 - 3)

Prerequisite: ITCS 101

NQF Level Allocated: Level 7

NQF Notional Hours / Credits: 120 notional hours/ 12 NQF credit

Description: This course focuses on designing and implementing websites using HTML5 and CSS3. Students get hands-on practice working with fundamentals through superior techniques to get the most out of their experience by teaching them the basics coding for web design, HTML5 and CSS3. In addition, students learn the new features of HTML5 and CSS3 styles.

Objectives:

1. To critically understand the basic concepts and terminology of static web sites.
2. To acquire the foundation of design techniques for static web sites.
3. To gain the different techniques of designing and development for entire static web sites using HTML 5 and CSS 3.

Semester:

Academic Year:

Instructor:

Office Tel:

Email:

Intended Learning Outcomes (ILOs):

A. Knowledge and Understanding		NQF Descriptor/ Level
A1	Concepts and Theories: Demonstrate knowledge and understanding of Web Design, how to plan, organize, and create a website from start to finish using HTML5 and CSS3.	Knowledge: theoretical understanding [Level 7]
A2	Contemporary Trends, Problems and Research:	N/A
A3	Professional Responsibility:	N/A

B. Subject-specific Skills		NQF Descriptor/ Level
B1	Problem Solving:	N/A
B2	Modeling and Design: Design the architecture of static websites by choosing appropriate components and models that satisfy user specifications.	Knowledge: Practical Application [Level 7]
B3	Application of Methods and Tools: Employ appropriate methods, techniques, and tools used in modern Multimedia practical packages and web design methods to design websites.	Knowledge: Practical Application [Level 7] Skills: Communication, ICT & Numeracy [Level 7]

C. Critical-Thinking Skills		NQF Descriptor/ Level
C1	Analytic skills: Analyze websites through source coding to explore the content of pages.	Generic Problem Solving & Analytical skills [Level 7]
C2	Synthetic:	N/A
C3	Creative: Use a range of a creative approach to develop insightful projects ideas in the term of design and layout during the lab sessions.	Knowledge: Practical Application/ Generic Problem Solving [Level 7]

D. General and Transferable Skills (other skills relevant to employability and personal development)		NQF Descriptor/ Level
D1	Communication: Express and communicate ideas effectively through storyboards and oral form through presentations.	Communication, ICT and Numeracy Skills [Level 6]
D2	Teamwork and Leadership:	N/A
D3	Organizational and Developmental Skills: Demonstrate ability to organize ideas for developing websites and to manage resources efficiently.	Competence: Autonomy, Responsibility and Context [Level 6]
D4	Ethics and Social Responsibility:	N/A

Course Structure (Outline)

Week	Hours		ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
	Lecture	Lab				
1	2	2	A1	Introduction: <ul style="list-style-type: none"> • Introduction to HTML5 • Editing HTML5 • First HTML5 Example 	Lecture, Exercises, Lab Demonstration	-
2	2	2	A1, D1	Using HTML5: <ul style="list-style-type: none"> • Headings • Linking • Images, alt Attribute • Void Elements 	Lecture, Lab Demonstration	Oral Participation
3	2	2	B2, B3, C1, C3, D1, D3	Using HTML5: <ul style="list-style-type: none"> • Using Images as Hyperlinks • Special Characters and Horizontal Rules • Lists 	Lecture, Exercises, Lab Demonstration	In-Lab Exercises
4	2	2	B2, B3, C1, C3, D1, D3	Using HTML5: <ul style="list-style-type: none"> • Tables 	Lecture, Exercises, Lab Demonstration	In-Lab Exercises
5	2	2	B2, B3, C1, C3, D1, D3	Using HTML5: <ul style="list-style-type: none"> • Forms 	Lecture, Exercises, Lab Demonstration	In-Lab Exercises
6	2	2	A1, B3	Using HTML5: <ul style="list-style-type: none"> • New HTML5 Form input: <ul style="list-style-type: none"> input Type color input Type date input Type datetime input Type datetime-local input Type email input Type month input Type number input Type range input Type search input Type tel input Type time input Type url input Type week 	Lecture, Exercises, Lab Demonstration	Quiz 1

7	2	2	B2, B3, C1, C3, D1, D3	Using HTML5: <ul style="list-style-type: none"> input and datalist Elements and autocomplete Attribute input Element autocomplete Attribute datalist Element 	Lecture, Exercises, Lab Demonstration	In-Lab Exercises
8-9	4	4	B2, B3, C1, C3, D3	Using HTML5: <ul style="list-style-type: none"> Page-Structure Elements: header Element nav Element figure Element and figcaption Element article Element summary Element and details Element section Element aside Element meter Element footer Element Text-Level Semantics: mark Element and wbr Element 	Lecture, Exercises, Lab Demonstration	Lab Test
10	2	2	B2, B3, C1, C3, D3	Using CSS3: <ul style="list-style-type: none"> Introduction to CSS Inline Styles Embedded Style Sheets 	Lecture, Exercises, Lab Demonstration	In-Lab Project Part A
11	2	2	B2, B3, C1, C3, D1, D3	Using CSS3: <ul style="list-style-type: none"> Linking External Style Sheets Positioning Elements: Absolute Positioning, z-index Backgrounds 	Lecture, Exercises, Lab Demonstration	In-Lab Exercises
12	2	2	B2, B3, C1, C3, D1, D3	Using CSS3: <ul style="list-style-type: none"> Box Model and Text Flow Media Types and Media Queries Drop-Down Menus 	Lecture, Exercises, Lab Demonstration	In-Lab Project Part B

13	2	2	A1, B3	Using CSS3: <ul style="list-style-type: none"> • Text Shadows • Rounded Corners • Color • Box Shadows 	Lecture, Exercises, Lab Demonstration	Quiz 2
14	2	2	B2, B3, C1, C3, D1, D3	Using CSS3: <ul style="list-style-type: none"> • Linear Gradients; Introducing Vendor Prefixes • Reflections • Image Borders 	Lecture, Exercises, Lab Demonstration	In-Lab Exercises
15	2	2	B2, B3, C1, C3, D1, D3	Using CSS3: <ul style="list-style-type: none"> • Animation; Selectors • Transitions and Transformations • Transition and transform Properties • Skew • Transitioning Between Images 	Lecture, Exercises, Lab Demonstration	In-Lab Exercises
16			A1, B2, B3, C1, C3, D1, D3	All Topics and Final Programming Project presentations to be given by students.	Discussion, Tutorial	In-Lab Project Part C Final Exam

Teaching Materials:

Textbook(s):	Ranjan Parekh, (2017), Principles of Multimedia 2 nd Edition, McGraw Hill.
Handout(s):	Available on http://www.ahlia.edu.bh/moodle .
Reference(s):	<ol style="list-style-type: none"> 1. Tay Vaughan, (2017), Multimedia: Making It Work, Ninth Edition, McGraw Hill. 2. Prabhat K. Andleigh, Kiran Thakrar, (2015), Multimedia Systems Design, Pearson. 3. Ramesh Bangia, and Laxmi Publications, (2015), Introduction to Multimedia. 4. Z-N. Li, M.S. Drew, and J. Liu, (2014), Fundamentals of Multimedia, 2nd Edition, Springer.

Assessments:

Type of Assessment	Description	ILOs	Weighting
Oral Participation	Students will be questioned orally to demonstrate their understanding and knowledge of the topics covered during class lectures and lab sessions.	A1, D1	Formative
In-Lab Exercises	Lab exercises cover problem solving questions and help students in mastering the topics.	B2, B3	Formative
In-Lab Project	The lab project consists of a set of practical tasks to be implemented by students individually in lab as shown in the above weekly structure. The lab project assesses the students' skills in developing and designing websites. In addition, each student will present his website.	B2, B3, C1, C3, D1, D3	25%
Quizzes	The test will be an in-class 20 minutes quiz that will consist of short-answer and problem solving questions. Also, it covers the topics as shown in the above weekly structure.	A1, B3	10%
Lab Test	The test will be for two hours and used to assess students in the implementation of topics studied in the first 9 weeks.	B2, B3, C1, C3, D3	25%
Final Exam	The final exam is comprehensive and will be of two hours duration.	A1, B2, B3, C1, C3	40%
Overall			100%

Admissions

Minimum number of students	5
Maximum number of students	20

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