KOMAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
(KUST)

Web-Based Business Technology Course Syllabus			
Course Title	**Web-Based Business Technology**		
Course Code	**ECO4320**	**No. of Credits**	**3**
Department	**e-Commerce and Information Management**	**Collage**	**College of Business**
Pre-requisites Course Code	**Fundamentals of Software Development**	**Co-requisites Course Code**	
Course Coordinator(s)	**Hemin Ibrahim**		
Email	**hemin.ibrahim@komar.edu.iq**	**Office No. 304**	**IP No. 128**
Other Course Teacher(s)/Tutor(s)			
Class Hours	**Sunday and Tuesday from 10:00 to 11:30.**		
Office Hours	**Monday and Wednesday from 09:00 AM to 10:00 AM**		
Course Type	**❒ Department Requirement**		
Offer in Academic Year	**☐ Fall Semester 2015**		

COURSE DESCRIPTION

Web-based business technology course is mainly designed for undergraduate students in e-commerce and information management department, and introduces students to the fundamental protocols and methods that underlie the operation of the World Wide Web. It aims to provide students with basic knowledge and the skills necessary in developing web based applications and designing effective websites for various purposes. Relevant issues concerning effective application of web technologies and the available tools for web development are introduced including HTML, CSS, JavaScript and some idea about PHP and MYSQL.

COURSE OBJECTIVES

- To familiarize students with WWW, domain, host and web servers.
- To introduce the concepts of the Internet, client-server architecture, features, and tools.
- Knowledge base for implementing HTML and the Cascading Style Sheets (CSS) codes.
- Develop and incorporate software capabilities in web pages.
- Establish practical skills in developing effective and user friendly websites for different purposes (course group projects)

COURSE LEARNING OUTCOMES

After participating in the course, the students should be able to:

1. Analysis web architecture, web services and webservers.
2. Upload their website to web servers.
3. Design simple interactive web pages using HTML.
4. Analysis and implement CSS codes.
5. Analysis and write Java script codes for simple calculations and validation form.
6. Understand and write an inspect XML.
7. Install and configure Apache.
8. Make and run simple query of SQL and MySQL

9. Write, analyze and inspect simple PHP codes.

GUIDELINES ON GRADING POLICY

A	=	95	–	100	Points	
A–	=	90	–	94	Points	
B+	=	87	–	89	Points	
B	=	83	–	86	Points	
B–	=	80	–	82	Points	
C+	=	75	–	79	Points	
C	=	70	–	74	Points	
C–	=	65	–	69	Points	
D+	=	60	–	64	Points	(65 is the passing grade. A 100 is your goal)
D	=	55	–	59	Points	
D–	=	50	–	54	Points	
F	=	0	–	49	Points	
W	Withdrawal					
I	Incomplete					

COURSE CONTENT

Course topics include:

1- Introduction to WWW and web servers.
2- Static vs dynamic websites.
3- Introduction to HTML and CSS.
4- Fundamentals of JavaScript.
5- Using XML in web applications.
6- Use of authoring tools (Aptana Studio)
7- Development of dynamic and interactive Web-based capabilities (creating simple forms for data collection) with Javascript and XML.
8- PHP/MYSQL

COURSE TEACHING AND LEARNING ACTIVITIES

Course Teaching and Learning Activities: (short description)

1. Interactive class discussion
2. Homework - Tutorials
3. Lectures
4. Assignments
5. Practical sessions
6. Quizzes and tests

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COURSE ASSESSMENT Tools		
Assessment Tool	**Description**	**Weight**
Quizzes	Students will take 4 quizzes.	10%
Assignment & Project	Students have one individual assignment and one as a group project.	25%
Homework	Students have 3 homework before midterm and 2 after midterm.	10%
Midterm	The first test will be planned to cover week 1-7	20%
Lab	Solve and run codes in the lab.	5%
Final Exam	The final exam will be designed to cover all lectures.	30%
Extra Grade	The students can get the extra grades by doing extra assignments and projects to **improve their knowledge.**	5%

ESSENTIAL READINGS:

Textbooks:
Internet & World Wide Web: How to Program, 5th Edition, by Harvey & Paul Deitel & Associates Inc, 2012
References:

1. HTML, XHTML, and CSS, 7th Edition: Visual QuickStart Guide, Authors: Elizabeth Castro.
2. JavaScript for the World Wide Web: Visual QuickStart Guide, Student Edition, 5/E, Authors: Tom Negrino.
3. PHP and MySQL web Development, Third Edition, Authors: Luke Welling, Laura Thomson.

COURSE POLICY *(including plagiarism, academic honesty, attendance etc.)*

Attendance Policy
Students are expected to attend all the classes for the entire semester. Students are responsible for material presented in lectures. Attendance is taken at the beginning of each class. Only students with official KUST absences, family crises, and illness are excused from class. This in no way cancels any responsibility for work due or assigned during absence. The student who misses **more than 10 percent** of the course classes will be placed on probation.

Make-up Policy
Because all examinations are announced in advance a zero will be assigned to any missed examination unless a student has a legitimate acceptable reason, such as illness, for not being able to take the examination during all the days when the examination was announced.

Academic Dishonesty
Any type of dishonesty (plagiarism, copying another's test or home-work, etc) will NOT be tolerated. Students found guilty of any type of academic dishonesty are subject to failure in this course, plus further punishment by the University Consul.

Deadlines/Due Dates

Recognizing that a large part of professional life is meeting deadlines, it is necessary to develop time management and organizational skills. Failure to meet the course deadlines will result in penalties. **Late assignments will be accepted with a penalty if they are less than 3 days passed their respective due dates, otherwise a zero will be assigned to those assignments**. Work may be submitted early.

GUIDELINES FOR SUCCESS

1. Attend classes (on time).
2. Ask question any time you want. If you do not understand something, please, please and please ask. You can ask during the class, in tutorials, office hours and by email.
3. Solve all homework and lab questions.

CELL PHONES

All cell phones are expected to be switched to vibrating mode if available and turned off completely if this feature is not an option. Disruption of class due to a cell phone will not be tolerated and the student will be asked to leave class. All other electronic equipment that the faculty member deems not essential to the provision of academic learning is prohibited from being used in class.

REVISIONTO THE SYLLABUS

This syllabus is subject to change. It is the duty of the instructor to inform students of changes in a timely fashion after approval of Quality Assurance Office (QAO).

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Course calendar: Please check the academic calendar for 2015/2016 (Subject to Change)

Week	Beg/End Dates	Topics	Assessment
1	28 Sep – 1 Oct	- Introduction to the course. - Introduction to Internet and World Wide Web. - Domain, host and web servers - Static vs Dynamic Websites - Web 2.0 vs Web 1.0 - Browsers	
2	4 Oct – 8 Oct	- Introduction to HTML. - Comments - First XHTML Example - W3C XHTML Validation Service - Headings - Linking - Images - Marque	Quiz #1
3	11 Oct – 15 Oct	- Video - Special Characters and Horizontal Rules - Lists - Tables - Forms	H.W#1
4	18 Oct – 22 Oct	- Introduction to Cascading Style Sheets (CSS) - Inline Style - Embedded style - Linking External Style Sheet	Assignment #1
5	25 Oct – 29 Oct	- The Elements of CSS Style - Practice on CSS	Quiz #2 H.W #2
6	1 Nov – 5 Nov	- Buying a domain and uploading webpages to internet (practical) - Introduction to Javascript. - Simple script: Displaying a Line of Text in a Web Page - Modifying our simple script - User Input with prompt dialogs	
7	8 Nov – 12 Nov	- Memory concept - Arithmetic - Control Structures - if Selection Statement - if else Selection Statement - While Repetition Statement - Increment and Decrement Operators	Quiz #3 H.W #3
	15 Nov –	Midterm Exam	

	19 Nov		
8	22 Nov – 26 Nov	- Functions - Validations	Project
9	29 Nov – 3 Dec	- Introduction to Extensible Markup Language (XML) - XML Basics - Structuring Data - XML Namespaces - Document Type Definitions (DTDs) - W3C XML Schema Documents - XML Vocabularies	
10	6 Dec – 10 Dec	- Introduction to Apache and localhost - XAMPP Installation - Running XAMPP - Testing Your Setup - Running the Examples Using Apache HTTP Server - Introduction to Database - SQL and MySQL - Basic SELECT Query - Using MySQL Workbench	H.W #4
11	13 Dec – 17 Dec	- WHERE Clause - ORDER BY Clause - Merging Data from Multiple Tables: INNER JOIN - INSERT Statement - UPDATE Statement - DELETE Statement	
12	20 Dec – 24 Dec	- Introduction to PHP - Simple PHP script - Variables, Data types, Constants and Operations - If statements and Loops	Quiz #4 H.W #5
	27 Dec – 31 Dec	New Year 2016	
13	3 Jan – 7 Jan	- PHP (cont.) - Functions - Array - PHP and MySQL	
14	10 Jan – 14 Jan	- Using PHP to Process HTML5 Forms - POST - GET - Login pages	
15	17 Jan – 21 Jan	Review Week	
	24 Jan -28 Jan	Final Exam	