

**University:** Alexandria  
**Faculty:** Science  
**Program:** Computer Science

**Form no. (12)  
Course Specification**

**1- Course Data**

<b>Course Code:</b> CS 210	<b>Course Title:</b> Web Programming and Internet	<b>Academic Year/Level:</b> Second level (First semester)
<b>Specialization:</b> Computer Science	<b>No. of Instructional Units:</b> <b>Lecture</b> 2 <b>Lab</b> 3	

<b>2- Course Aim</b>	<ul style="list-style-type: none"> <li>• This course is designed to encourage in students a sense of interest for Web Design and its application in different contexts</li> <li>• Provide a solid foundation in the major areas of Networks and Internet</li> <li>• Provide education and training of high quality in web Design</li> </ul>
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<b>3- Intended Learning Outcome</b>
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<b>a- Knowledge and Understanding</b>	<p>a1. Describe the main concepts, definitions of web Design</p> <p>a2. Review theories and concepts used in web Design</p> <p>a3. Identify an understanding of the contribution and impacts of web Design in scientific, social, economic, environmental, political and cultural terms.</p> <p>a4. The basic syntax and semantic analysis of web markup languages</p> <p>a5. The basic data types for all web design languages</p> <p>a6. The animation, security and networks concepts</p>
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<b>b- Intellectual Skills</b>	<p>b1. Manipulate and apply appropriate theories, principles and concepts relevant to web Design</p> <p>b2. Critically assess and evaluate the literature within the field of web Design</p> <p>b3 Deduce and interpret information from a variety of sources relevant to web Design</p>
<b>c- Professional Skills</b>	<p><b>c1.</b> Plan, design and execute practical activities using techniques and procedures Appropriate to web Design</p> <p><b>c2.</b> Execute a piece of independent research using <b>web</b>, computer media and techniques;</p>
<b>d- General Skills</b>	<p><b>d1.</b> Develop appropriate effective written and oral communication skills relevant to the specific course of web Design</p> <p><b>d2.</b> Demonstrate the ability to work effectively as part of a group</p> <p><b>d3.</b> Solve problems relevant to web Design using ideas and techniques some of which are at the forefront of the discipline.</p> <p><b>d4.</b> Solve problems relevant to <b>applications in real life</b> in computer science using old and new languages some of which are at the forefront of the discipline;</p>
<b>4- Course Content</b>	<ul style="list-style-type: none"> <li>• Design and implementation of web language interpreter.</li> <li>• Network topologies</li> <li>• OSI model</li> <li>• TCP/IP model.</li> <li>• Client/server model</li> <li>• Network and web security.</li> <li>• Static and dynamic web pages.</li> <li>• HTML / XML</li> <li>• PHP</li> <li>• Java script</li> <li>• Application and projects</li> </ul>

<b>5- Teaching and Learning Methods</b>	Lecturers – Home works - Oral discussion - Quizzes
<b>6- Teaching and Learning Methods for Students with Special Needs</b>	NONE
<b>7- Student Assessment:</b>	
<b>a- Procedures used:</b>	Lecturers – tutorials- homework – oral discussion - Quizzes
<b>b- Schedule:</b>	Mid-Term exam... .... Week 10 Final exam ..... Week 17
<b>c- Weighing of Assessment:</b>	Term work (exam + home works) 20% Lab exam 10% Oral exam 10% Final exam 60%
<b>8- List of References:</b>	Concepts of Computer Networks, J. Sebasta Web Design principles
<b>a- Course Notes</b>	Course notes provided by the Faculty member of Computer Science Division, Math department, to be handled at the beginning of the semester.

<b>b- Required Books (Textbooks)</b>	Concepts of Computer networks, J. Sebastia
<b>c- Recommended Books</b>	
<b>d- Periodicals, Web Sites, ..., etc.</b>	

**Course Instructor:** Dr. Yasser Fouad

**Head of Department:** Prof. Dr. Mahmoud El-Alem.

**Date:** 1/10/2010