



University/Academy: Arab Academy for Science and Technology & Maritime Transport
Faculty/Institute: College of Computing and Information Technology
Program: Computer Science

Form No. (12)
Course Specification

1- Course Data

Course Code: AR115	Course Title: Visual Studies	Academic Year/Level: Year 1 / Semester 1
Specialization:	No. of Instructional Units: 2 hrs lecture 2 hrs Studio	Lecture:

2- Course Aim	<p>This course covers the fundamental and abstract characteristics of the graphic design.</p> <p>Theory of colors: definition and history of color wheel, color meanings, properties of color, working with color, physiological effects of color.</p> <p>Primary elements: visual properties of shapes, transformation of shapes and ordering principles.</p> <p>The elements of interface visual design: usability, visualization, functionality and accessibility.</p> <p>Applications using Adobe Photoshop program.</p>
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3- Intended Learning Outcome:

a- Knowledge and Understanding	<p>Students will be able to demonstrate knowledge of:</p> <p>K3 Tools, practices and methodologies used in the specification, design, implementation and evaluation of computer software systems.</p> <ul style="list-style-type: none">• Identify the fundamental elements which make up the web site interface.• Identify the fundamental elements , definitions of colors and different color wheels.• Identify the fundamental elements of color hue , value and intensity.• identify the fundamentals of different color theories.• Explain and classify different meaning of primary and secondary colors.• Identify the primary elements and explain the visual properties of the point.• Identify the fundamental elements of the line and explain its visual properties.• identify the fundamental elements of the plan and explain its visual properties.• Identify the different types of transformation of a plane and types of additive composition.• Identify the ordering principals and their application of website interfaces.• Recognize the appropriate colors and theories to be used in the web page to satisfy the functional requirements and design concept.• Identify the fundamental elements of interface design.
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b- Intellectual Skills	<p><u>By the end of the course, the student acquires high skills and an ability to understand:</u></p> <p>I5. Make ideas, proposals and designs using rational and reasoned arguments for presentation of computing systems.</p> <ul style="list-style-type: none"> • Innovate through a systematic process of web pages. • Design and investigate a website interface using Adobe Photoshop. • Suggest and design a group of shapes composition. • Design and investigate metaphors website interface using Adobe Photoshop. 								
c- Professional Skills	<p><u>By the end of the course the student will have the ability to:</u></p> <p>P6. Design, implement, maintain, and manage software systems.</p> <ul style="list-style-type: none"> • Use Adobe Photoshop. • Work with selection tools. • Work with colors. • Apply painting and editing techniques. • Prepare and produce website outline using Adobe Photoshop skills. • Use vector tools. • Produce graphical presentation using Adobe Photoshop. • Produce graphical presentation using styles and effects of Adobe Photoshop. • Produce graphical presentation using layers adjustments and filters of Adobe Photoshop. 								
d- General Skills	<p><u>Students will be able to:</u></p> <p>G1. Demonstrate the ability to make use of a range of learning resources and to manage one's own learning.</p> <p>G6. Reveal communication skills, public speaking and presentation skills, and delegation, writing skills, oral delivery, and effectively using various media for a variety of audiences.</p> <ul style="list-style-type: none"> • Work in an interdisciplinary environment and elaborate with others. • Exercise initiative, original thought and independence within a system of personal values. • Listen to and evaluate the opinions and values of others. <p>Carryout self-learning sessions as well as manage time and meet deadlines on an individual level.</p>								
4- Course Content	<table border="1" data-bbox="531 1435 1444 1624"> <tr> <td data-bbox="531 1435 608 1507">1</td> <td data-bbox="608 1435 1444 1507">Demonstrate understanding of the elements of interface visual design.</td> </tr> <tr> <td data-bbox="531 1507 608 1547">2</td> <td data-bbox="608 1507 1444 1547">Use graphic vocabulary.</td> </tr> <tr> <td data-bbox="531 1547 608 1588">3</td> <td data-bbox="608 1547 1444 1588">Apply colour theories and principles of shapes in web designs.</td> </tr> <tr> <td data-bbox="531 1588 608 1624">4</td> <td data-bbox="608 1588 1444 1624">Use computer design compositions.</td> </tr> </table>	1	Demonstrate understanding of the elements of interface visual design.	2	Use graphic vocabulary.	3	Apply colour theories and principles of shapes in web designs.	4	Use computer design compositions.
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2	Use graphic vocabulary.								
3	Apply colour theories and principles of shapes in web designs.								
4	Use computer design compositions.								
5- Teaching and Learning Methods	<p>The course comprises a combination of: Lectures, research assignments, class activities, practical training, and class work.</p>								
6- Teaching and Learning Methods for Students with Special Needs	<ul style="list-style-type: none"> • Students with special needs are requested to contact the college representative for special needs (currently Dr Hoda Mamdouh in room C504) • Consulting with lecturer during office hours. • Consulting with teaching assistant during office hours. • Private Sessions for redelivering the lecture contents. • For handicapped accessibility, please refer to program specification. 								

7- Student Assessment:	
a- Procedures used:	Exams and Individual Projects
b- Schedule:	Week 7 exam Projects Week 16 Final exam
c- Weighing of Assessment:	7 th week exam 30% Projects 20% Lab work 10% Final exam 40%
8- List of References:	
a- Course Notes	None
b- Required Books (Textbooks)	Ching Francis, D.K., Architecture form, space, and order, 2nd Edition, Van Nosrand Reinhold, New York, 1996.
c- Recommended Books	<ol style="list-style-type: none"> 1. Francis DK Ching, Corky Binggeli, <i>Interior Design Illustrated</i>, 2nd Edition, John Wiley & Sons Inc., 2004. 2. Ching Francis D. K., Frank Ching, <i>Architectural Graphics</i>, 3rd Ed., John Wiley & Sons Inc., 2002. 3. Ocvirk, Ottog., <i>Art Fundamentals, Theory & Practice</i>, W. C. Brown Co., 1975. 4. Ambrose, Harris, <i>Colour: In the Sensation Produced by Rays of Light</i>, Lausanne, AVA Publishing, 2005. 5. Porter tom, Goodman Sue, <i>Manual of Graphic Techniques 4</i>, Architectural Press, 1998.
d- Periodicals, Web Sites, ..., etc.	

Course Instructor: Dr Hoda Shaheen

Head of Department:

Dr Samah Senbel

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