

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

<b>Course title</b>	<b>Visual Studies</b>
<b>Course code</b>	<b>AR 115</b>

**Form no. (11a): Knowledge and skills matrix for a course**

<b>Course content</b>	<b>Week study</b>	<b>Knowledge</b>	<b>Intellectual skills</b>	<b>Professional skills (Section)</b>	<b>General skills</b>
Introduction to visual studies and colors.	1	Identify the fundamental elements which make up the web site interface.	Innovate through a systematic process of web pages.	Use Adobe Photoshop.	Carry out self-learning sessic as well as manage time and meet deadlines on an individ level.
Color Theory. - Definition of color - History of color theory - Color wheel - First and second order colors - Warm and cool colors	2	Identify the fundamental elements , definitions of colors and different color wheels.		Work with selection tools.	
Properties of colors. - Hue - Value - Saturation	3	Identify the fundamental elements of color hue , value and intensity.		Work with selection tools.	
Working with colors. - Color harmony - Color theories	4	Identify the fundamentals of different color theories.		Work with colors.	
Color meaning.	5	Explain and classify different meaning of primary and secondary colors.		Apply painting and editing techniques.	
Primary elements 1.	6	Identify the primary elements and explain the visual properties of the		Apply painting and editing techniques. Prepare and produce website	

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- Point - Visual Properties of the point		point.		outline using Adobe Photoshop skills.	
<b>7<sup>th</sup> week exam</b>	7				
Primary elements 2 - Line - Visual Properties of the line	8	Identify the fundamental elements of the line and explain its visual properties.	Design and investigate a website interface using Adobe Photoshop.	Use vector tools. Produce graphical presentation using Adobe Photoshop. Produce graphical presentation using styles and effects of Adobe Photoshop.	Work in an interdisciplinary environment and elaborate w others.
Primary elements 3. - Plane (Shape) - Visual Properties of the Plane - Meanings of shapes	9	Identify the fundamental elements of the plan and explain its visual properties.	Design and investigate a website interface using Adobe Photoshop.	Produce graphical presentation using layers adjustments and filters of Adobe Photoshop.	
Transformation in shapes. - Dimensional / Subtractive / Additive transformation  Additive composition. - Centralized / Linear / Radial / Clustered / Grid Composition.	10	Identify the different types of transformation of a plane and types of additive composition.	Design and investigate a website interface using Adobe Photoshop. Suggest and design a group of shapes composition.	Produce graphical presentation using Adobe Photoshop.	
Ordering Principles. - Axis / Symmetry / Datum / Hierarchy / Rhythm.	11	Identify the ordering principals and their application of website interfaces.	Design and investigate a website interface using Adobe Photoshop.	Produce graphical presentation using Adobe Photoshop.	
<b>12th week exam</b>	12	Recognize the appropriate colors and theories to be used in the web page to satisfy the functional requirements and design concept.	Design and investigate a website interface using Adobe Photoshop.	Produce graphical presentation using Adobe Photoshop.	Carry out self-learning sessic as well as manage time and meet deadlines on an individ level.
The elements of interface design. - Usability	13	Identify the fundamental elements of interface design.	Design and investigate a website interface using Adobe Photoshop.	Produce graphical presentation using Adobe Photoshop.	Exercise initiative, original thought and independence within a system of personal

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- Visualization - Functionality - Accessibility					values.
Students' presentation: Elements of interface design of a website.	14				Work in an interdisciplinary environment and elaborate w others. Carry out self-learning sessic as well as manage time and meet deadlines on an individ level.
Projects and website designs criticism.	15		Design and investigate metaphors website interface using Adobe Photoshop.		Work in an interdisciplinary environment and elaborate w others. Exercise initiative, original thought and independence within a system of personal values. Listen to and evaluate the opinions and values of others. Carry out self-learning sessic as well as manage time and meet deadlines on an individ level.

**Course Instructor**

Name: **Dr Hoda Shaheen**

**Head of Department**

Name: **Dr. Samah Senbel**