

Course Description Template: Photography and Video Techniques

<b>1- Course Name</b>
Photography and Video Techniques
<b>2- Course Code</b>
<b>3- Semester Year</b>
<b>2025-2026</b>
<b>4- Date of Preparation of this Description</b>
11/15/2025
<b>Available Attendance Forms</b>
In-Person
<b>6- Total Study Hours</b>
<b>60</b>
<b>7- Name of Course Coordinator</b>
M.M. Hazem Fadel Abu Sakhr
<b>8- Course Objectives</b>
Learning Objectives
<p>This course aims to equip students with the theoretical and practical skills to handle and produce digital images and their techniques, as well as the computer programs used for editing and modifying digital images within a practical academic framework. It also highlights digital video, its techniques, production, and the computer programs used for editing and modifying digital video within a practical academic framework, enabling students to acquire professional skills in working with digital video.</p> <p>Values</p> <ol style="list-style-type: none"> <li>1. To equip students with skills in handling digital images and videos</li> <li>2. To familiarize them with digital image and video techniques and how to represent them digitally on a computer</li> <li>3. To equip the student with the skill of producing and editing images and videos using the most important computer programs used for this work. To familiarize the student with the latest and most important technologies used for working with digital images and videos</li> </ol>

9 Teaching and Learning Strategies

- Theoretical lectures.
- Visual presentation of theoretical material for better comprehension.
- Practice in producing digital images and videos.
- Practice with computer programs for editing digital images and videos.
- Visual presentation of the most important digital images and videos recently produced by specialists.
- Periodic and semester exams to measure students' comprehension of the theoretical material.
- Practical tasks for students to practice the practical skills of producing and editing digital images and videos.
- Assigning students monthly reports or research papers to develop their research, deduction, and self-learning skills.

10. Course Structure:

First Semester

Assessment Method	Teaching Method	Unit or Topic Name	Required Learning Outcomes	Hours	Week
Presentation Discussion and Visual	Theoretical and Practical Lecture	Introduction to Digital Images	Understanding the concept of digital images	3	01
Discussion and Visual Presentation	Theoretical and Practical Lecture	Understanding pixels in digital images	Understanding the concept of pixels and how they work to display images	3	02
Discussion and Visual Presentation	Theoretical and Practical Lecture	Understanding Vector in digital images	Understanding the concept of Vector and how it works to display images	3	03
Discussion and visual presentation	Theoretical and practical lecture	Digital image representation in binary	How digital images are represented in binary on computer processors	3	04
Discussion and visual presentation	Theoretical and practical lecture	Color systems: HSB, RGB, CMYK	Understanding computer color systems: HSB, RGB, CMYK	3	05
Practical application	Practical lecture	Practical application	Practical application of what we learned above	3	06
Discussion, visual presentation, and exam	Theoretical and practical lecture	Digital image formats: JPEG, PNG, + RAW	Understanding digital image formats and the differences between them, and an exam on several image formats	3	07

Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	Introduction to Digital Cameras and Their Types + GIF, SVG, EPS	Introduction to Digital Cameras and Their Types, as well as an Exam in Several Image Formats	3	08
Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	Image Sensor, Aperture, Shutter, Focal Length	Introduction to Image Sensor, Aperture, Shutter, Focal Length  and the Relationship Between Them and How to Benefit from Understanding Them	3	09
Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	Zoom, Digital Zoom, + Optical and TIFF, AI, PSD	Introduction to the Most Important Differences Between Digital Zoom and Optical Zoom  Technically, and the Advantages of Each	3	10
Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	Digital Photography Skills	Introduction to the Most Important Digital Photography Skills and How to Apply Them During Shooting	3	11
Practical Application	Practical Lecture	Practical Application of Digital Photography	Practical Application of What We Learned About Digital Photography Skills	3	12
Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	Digital Image Editing and Essential Editing Software	Introduction to Digital Image Editing and the Most Important Programs Used for Digital Image Editing	3	13
Practical Application	Practical Lecture	Practical Application of Digital Image Editing (Contrast and Color)	Practical Application of Editing a Group of Images in Photoshop, Focusing on Contrast and Color	3	14
First Semester Exam					15
Second Semester					
Assessment Method	Teaching Method	Unit or Topic Name	Required Learning Outcomes	Hours	Week
Discussion and Visual Presentation	Theoretical and Practical Lecture	Introduction to Digital Video	Understanding the Concept of Digital Video	3	01

Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	<b>Frame , Frame Rate, Time Code, Timeline</b>	Understanding the concept of Frame, Frame Rate, Time Code, and Timeline  and its importance for working with digital video professionally	3	02
Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	<b>Digital Video Format</b>	What are the digital video formats, what are the differences between the formats, and how to benefit from them	3	03
Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	<b>Aspect Ratio  </b>	What is the concept of Aspect Ratio and its importance in working with digital video and images	3	04
Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	<b>Steps for Digital Video Production</b>	Understanding the steps for digital video production and the possibility of applying them during work	3	05
Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	<b>Digital Video Shooting Skills</b>	Understanding digital video shooting skills and the possibility of applying them during work	3	06
Practical Application	Practical Lecture	<b>Practical Application of Digital Video Production</b>	Practical Application of Digital Video Production Based on What We Learned Above	3	07
Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	<b>Introduction to the Origins of Digital Video Editing</b>	Theoretical Introduction to the Origins of Digital Video Editing	3	08
Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	<b>Digital Video Editing and the Most Important Editing Software</b>	Introduction to the Digital Video Editing Process and the Most Important Software Used for Editing	3	09
Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	<b>Digital Video Editing Techniques</b>	Introduction to the Most Important Digital Video Editing Techniques and Their Applicability During Work	3	10
Discussion, Visual Presentation, and Exam	Theoretical and Practical Lecture	<b>The Function and Importance of Digital Video Editing</b>	Understanding the Function of Editing Digital Video and Its Importance:	3	11

Discussion and Visual presentation and examination	Theoretical and practical lecture	most important rules for video editing Digital The	Learn about the most important rules Methods followed during digital video editing and the possibility of applying them during work.	3	12
Discussion, visual presentation, and exam	Theoretical and practical lecture	Mixing and dubbing	Understanding audio mixing and dubbing, and the differences between them.	3	13
Practical application	Practical lecture	Practical application for digital video editing	A practical application for editing previously recorded digital video.	3	14
<b>Second semester exam</b>					<b>15</b>
: 11. Course evaluation					
5. Daily preparation and attendance. 6. Daily, termly, and final exams. 7. Participation, discussion, and asking questions within the classroom. 8. Practical assignments and preparation of reports or research papers.					
12. Educational and teaching resources					
There is no prescribed textbook, and lectures are conducted according to specific syllabus.			Required textbooks (methodology, if applicable)		
<ul style="list-style-type: none"> <li>● Soldier Mohammed Multimedia for Journalism and Media 1st ed., Cairo: Nile Arab Group, 2019.</li> <li>● Qasim Hassan, Production of Audiovisual Materials: Scientific Foundations Al-Mahaniya Al-Arabi for Publishing and Distribution, 2019.</li> <li>● Sharif Ashraf, Electronic Archives in Companies and Government Agencies, Dar Humaithra for Publishing and Distribution Translation, 2023.</li> </ul>			Main references (sources)		
nothing			Recommended supporting books and references (scientific journals, reports)		
<ul style="list-style-type: none"> <li>● The video encyclopedia series on the nikonarabia channel on YouTube.</li> <li>● Do it channel on YouTube.</li> <li>● Books authored by Data Company are available on Their official website</li> <li>● Adobe company blog.</li> <li>● Sony company website.</li> </ul>			Electronic references and websites		

