

TECHNIQUES OF DIGITAL VISUALIZATION

1	Course Title:	TECHNIQUES OF DIGITAL VISUALIZATION	
2	Course Code:	GSR3114	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	3	
6	Semester:	6	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	-	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Ahmet Şinasi İşler	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	sinasi@uludag.edu.tr 0 506 3083931, Uludag Üniversitesi, Güzel Sanatlar Fakültesi, Resim Bölümü, Görükle Kampüsü / BURSA	
17	Website:		
18	Objective of the Course:	This course is designed to understand and increase student's understanding of using digital materials in painting. The aim of this course is to provide the theoretical knowledge and practical skills necessary to conceive, plan, and produce a creative digital painting project.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Explains the concept of digital photography, it's history, benefits and tools.
		2	Takes photographs with a digital camera at different environments.
		3	Describes the necessary points to be considered while using a digital camera and shooting.
		4	Transfers images captured by digital camera to computer.
		5	Takes copies from printer after the necessary arrangements in photos.
		6	Analyzes film and memory cards correctly.
		7	Scans photos and movies according to the technique.
		8	Uses photo editing software.
		9	Shoots video according to the technique.
		10	Archives photos according to the technique.
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	

1	DEVELOPMENT OF DIGITAL PHOTO - History - The concept of digital photography - Overview of digi - Advantages of digital photography - Usage Styles -The equipment used in digital photography			
2	Digital Cameras - Classes of Digital Machines - What is the CCD unit? How does it work? - Resolution of digital camera - Hardware of digital cameras -How digital cameras Work? -Points to be considered when using and shooting digital camera.			
3	Printing Techniques at Digital carriers - Overview of professional photo printers - Inkjet (ink-jet) - Dye with sublimation - Pros cons of printer species - Transfer to computer of pictures - Getting print from digital carrier			
4	PHOTO / FILM SCREENING - Scanner (Scanner) Description task			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical	Resolution / Size settings - Pre-Screening (preview)	14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study	Scanned film / photo and preparation	0	0.00	0.00
Homeworks		0	0.00	0.00
Projects	SCANNING OF PHOTO - Resolution Value	10	5.00	50.00
Field Studies		0	0.00	0.00
Midterm exams	- Scan mode	1	5.00	5.00
Others		0	0.00	0.00
Final Exams	USE - Memory Cards	1	7.00	7.00
Total Work Load				95.00
Total work load/ 30 hr	SD (Secure Digital) - Micro Memory Cards			3.00
ECTS Credit of the Course				3.00
	-Points to be considered when put memory card on Camera			

6	<p>TRANSFER TO COMPUTER of DIGITAL IMAGES</p> <ul style="list-style-type: none"> - Methods of Data Transfer <p>USB Firewire Bluetooth Wireless Wi-fi</p> <ul style="list-style-type: none"> -Points to be considered at transferring images from digital camera <p>PHOTO EDITING</p> <ul style="list-style-type: none"> - Basic Concepts <p>pixel Dot and Dot Pitch (Dot and Dot Pitch) Resolution LPI (Line Per Inch) DPI (everything else) - Image Formats <p>PICT EPS TIFF JPG BMP GIF PNG PSD</p> </p>	
7	Repeating courses and midterm exam	
8	<p>Photo editing software</p> <ul style="list-style-type: none"> - Microsoft Office Picture Manager - Windows Picture and Fax Viewer - Picasa.google.com.tr (Turkish available) - Www.irfanview.com (I have Turkish language package) - www.PhotoScape.com - Adobe Photoshop 	
9	<p>PRINTING of IMAGES</p> <ul style="list-style-type: none"> - Classification of Photo Cards <p>matt Semi-Matte metallic bright</p> <ul style="list-style-type: none"> - Photo Dimensions <ul style="list-style-type: none"> -Preparation of Photos at Digital Media File Format (TIFF, JPEG, etc.). <p>Transferring to Side Memory Units</p>	
10	Photo Shoot or Exif Info	
11	Video Recording	
12	<p>Transfers of Video Images to Computer</p> <ul style="list-style-type: none"> - Multi Media Programmes Features 	
13	<p>Accoording between printing Colors with Screen Colors(screen calibration)</p> <ul style="list-style-type: none"> - Free Monitor Calibration Wizard - Adobe Gamma 	
14	<p>DIGITAL ARCHIVE</p> <ul style="list-style-type: none"> - Purpose and Importance of archiving photos - Digital Archives Programs - Digital Archives Programs Features and Differences - Use of Digital Archives Programs 	

22	Textbooks, References and/or Other Materials:	Dijital Fotoğrafçılar İçin Photoshop-Chip Dergisi Megep Modülleri	
23	Assesment		
TERM LEARNING ACTIVITIES		NUMBE R	WEIGHT
Midterm Exam		1	40.00
Quiz		0	0.00
Home work-project		0	0.00
Final Exam		1	60.00
Total		2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00	
Contribution of Final Exam to Success Grade		60.00	
Total		100.00	
Measurement and Evaluation Techniques Used in the Course			
24	ECTS / WORK LOAD TABLE		

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	4	2	3	3	2	3	4	3	2	2	2	3	0	0	0	0
ÖK2	3	2	2	3	2	2	4	3	2	2	2	4	0	0	0	0
ÖK3	3	2	3	4	2	3	4	2	2	2	2	3	0	0	0	0
ÖK4	2	1	2	3	2	2	3	2	1	1	1	3	0	0	0	0
ÖK5	3	2	3	4	2	3	3	2	2	1	1	3	0	0	0	0
ÖK6	2	3	2	3	2	2	4	2	2	1	1	3	0	0	0	0
ÖK7	2	3	2	3	2	2	4	2	2	1	1	3	0	0	0	0
ÖK8	3	2	3	4	2	2	4	2	2	1	1	4	0	0	0	0
ÖK9	4	2	2	3	2	2	4	3	2	2	1	4	0	0	0	0
ÖK10	3	2	3	4	2	2	4	2	2	1	1	4	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			