

ECTS COURSE INFORMATION FORM

School/Faculty/Institu	te Faculty of A	Arts, Design and Archite	ecture	
Program	B.Sc. in Arc	chitecture	Requir	ed
Course Code	FADA 211			
Course Title in English	Digital Communio	cation 1		
Course Title in Turkish	Dijital İletişim 1			
Language of Instruction	English			
Type of Course	Flipped Learning			
Level of Course	Undergraduate			
Semester	Fall	Desitation:	Labi	Chudio 2
Week	Lecture:	Recitation:	Lad:	Studio:3
Estimated Student Workload	155 hours per ser	mester.		
Number of Credits	6 ECTS			
Grading Mode	Standard Letter G	irade		
Pre-requisites	None			
Expected Prior Knowledge	None			
Co-requisites	None			
Registration Restrictions	Only Undergradua	ate Students		
Overall Educational Objective	To bring architect	tural representation teo	hniques into the	computer realm
Course Description	Mastering digital increasing deman basic 3D modeling purpose, Rhinoce to represent and o modeling and ren The course also for modeling; render the rendered imag presentation tech The application of include image ma 3D modeling and architectural desi	representation method of in architectural pract g and digital represents ros 5 is used as a 3D m express the potential o dering procedures as b ocuses on drawing com ing engines and technid ges we will use both PH iniques. f the techniques will be inipulation, diagrams a graphic platforms to re gns.	s is becoming a c ices and academ ation techniques odeling tool and f architectural de asic elements of mands and interf ques. Finally, in o tooshop and Illu e explicit within a nd modeling. Thu present and expl	crucial tool due to the ia. The course focuses on in architecture. For this AutoCAD as 2d drafting tool asigns - importing, export, digital representation. Face for curves and surfaces order to enhance and compose strator basic vector digital premise, which is, the coursework will use a ress the potential of
Course Description in Turkish	Görsel iletişim çal yapma ve maket t olmak üzere kurg yaratacak bir takı çalışılan nokta, ki geometrilerin, ma üzerine odaklanır ölçülebilir özellikl boyutlu ve 3 boyu üzerinden gösteri boyutlu modellem	lışmaları mimari tasarı teknikleri, mekansal iliş ulanan bir katmanlar s şinin hızlıca üretebilec Izemelerin, renklerin, l ve bunları üretir. Bu te eri üzerine değil aynı z ıtlu hem üretim hem de İmiştir. Autocad üzerin ne ve görselleştirme, Pl	n için güçlü bir si kiler, etkiler, çev eçkisi, tasarım ko aktadır. Tasarım f eği bir tür analiz hareketin; modell emsiller, mekanın amanda kalitesi i anlatım teknikle den teknik çizim, notoshop ve Illus	üreçtir. İçerisinde eskiz vresel ve sosyal stratejiler de onusunda farkındalık farkındalığında erişilmeye biçimidir. Bu analiz, leri, diagramları, eskizleri vs. bileşenlerinin sadece üzerinedir. Ders boyunca 2 eri dijital platformlar Rhinoceros üzerinden 3 trator programları üzerinden

	de görsel üretme ve işleme teknikleri ile öğrencilere dijital giriş dersi olarak planlanmıştır.	tekniklere	e çok yönlü bir
Course Learning Outcomes and Competences	 Upon successful completion of the course, the learner is ex 1. understand the powerful role of digital com architectural representation; 2. represent the existing environment by diagr rendering and graphic presentation qualitatively at 3. express ideas by means of digital graphical method 4. produce the technical drawings; 5. use renderings and graphic visualization in the on hybrid representations. 	ams, ma ams, ma nd quantit ds; digital me	be able to: n techniques for ppings, modeling, atively; dium by means of
Relation to Program Ou	Itcomes and Competences: N=None S=Supportive H=	Highly Re	lated
Program Outcome	s and Competences	Level N/S/H	Assessed by Reviews, HW, Assignment.
1. Ability to read, write to a B2 European Lang	and speak effectively in Turkish and English, equivalent uage Passport Level in English.	S	
2. Ability to question a gather and use data, d environment, and mak	nd interpret ideas considering diverse points of view; evelop concepts related to people, places and the e individual decisions.	S	
3. Ability to use approp drawing techniques, (E communicate the proce	priate graphical methods including freehand and digital CDL advanced) in order to develop ideas in addition to ess of design.	Н	Assignments, Presentations
4. Ability to use fundar place, climate, people, principles in relevant p	nental principles of architectural design considering the society as factors, and simultaneously express present recedents.	S	
 Understanding of an shaped by the climatic, to principles of historic design projects. 	chitectural principles belonging to global and local cultures technological, socioeconomic, cultural factors, in addition preservation while developing architectural and urban	N	
6. Understanding the to between human behav understanding different patterns of different cu	heories and methods used to describe the relationship ior and physical environment; and concurrently t needs, values, behavioral norms, social and spatial Itures.	S	
 Ability to apply various user needs, which incluced conditions and relevant 	ous stages of design processes considering the client and ide space and equipment requirements besides site t laws and standards.	S	
8. Understanding the results systems and their imparts	ole of applied research in determining function, form and act on human conditions and behavior.	N	
9. Understanding of the behavior that withstand and applications of stru	e basic principles of static and dynamic structural d gravity and lateral forces, in addition to the evolution uctural systems.	N	
10. Ability to apply the design projects that air provide healthful enviro	principles of sustainability in architectural and urban m to preserve the natural and historic resources and onments.	N	
11. Ability to apply the such as mechanical, ele principles of accessibili	fundamental principles of building and safety systems ectrical, fire prevention, vertical circulation additionally to ty into the design of buildings.	N	
12. Understanding the components and assem performance, including	basic principles in the selection of materials, products, ablies, based on their characteristics together with their their environmental impact and reuse possibilities.	N	
13. Ability to produce a design phase to design life safety and sustaina	a comprehensive architectural project from the schematic development phase, while integrating structural systems, bility principles.	S	
14. Understanding the preservation, active an orientation, day lighting the use of appropriate	principles of environmental systems such as energy d passive heating and cooling systems, air quality, solar g and artificial illumination, and acoustics; in addition to performance assessment tools.	N	

15. Ability to choose appropriate materials, products and components in the implementation of design building envelope systems	N	
16. Ability to understand the principles and concepts of different fields in	S	Assianments
multidisciplinary design processes and the ability to work in collaboration with	-	, looigi line loo
others as a member of the design team.		
17. Understanding the responsibility of the architect to organize and lead design	N	
and construction processes considering the environmental, social and aesthetic		
issues of the society.		
18. Understanding the legal to responsibilities of the architect of the architect	N	
effecting the design and construction of a building such as public health and		
salety; accessibility, preservation, building codes and regulations as well as user		
10 Ability to understand the ethical issues involved in the design and	N	
construction of buildings and provide services for the benefit of the society. In		
addition to the ability to act with social responsibility in global and local scales		
that contribute to the well being of the society.		
20. Understanding the methods for competing for commissions, selecting	N	
consultants and assembling teams, recommending project delivery methods,		
which involve financial management and business planning, time management,		
risk management, mediation and arbitration.		

Prepared by and Date	İrem Kork	(maz 09.03.2020		
Semester	Fall 2019-	-2020		
Name of Instructor	Sibel Özga	an, Çağlar Yılmaz, Turan Altıntaş, Derya Uzal, Başak Eren, Eda Yeyman		
Course Contents	Week	Торіс		
	1.	Introduction		
	2.	Digital Technical Drafting 1 - Basic terminology, Interface, Drawing tools		
	3.	Digital Technical Drafting 2 - Modifying and manipulating drawings		
	4.	Digital Technical Drafting 3 - Managing and plotting drawing		
	5.	3D Modelling - Basic terminology, Interface, Drawing tools		
	6.	3D Modelling – 2D to 3D		
	7.	3D Modelling – Basic modelling		
	8.	3D Modelling – Modelling, transformations and modifications		
	9.	3D Modelling – Advanced modelling tools		
	10.	Student Presentations		
	11.	Exporting Models, Drafting and Diagramming		
	12.	Rendering - Basic rendering tools, Clay Render		
	13.	Rendering - Atmosphere studies and post-production		
	14.	Post-production and poster design		
	15.	Final Assessment		
	16.	Final Assessment		
Required/Recommen	Recomme	nded Reading:		
ded	Schwartz, L (2004) Adobe Photoshop for VFX Artists, Course Technology PTR, New			
Readings	York.			
	Alspach, T (2009) Illustrator CS4 bible, Wiley Pub., Indianapolis.			
	R McNeel & Associates, (2006) Rhinoceros Level 1 Training Manual, Robert McNeel &			
	Assoc, Seattle.			
	R McNeel	& Associates, (2006) Rhinoceros Level 2 Training Manual, Robert McNeel &		
	ASSUL, Seattle. Chiang C and Alomar D (2009) Rendering Plugin For Designers ASCVIS II S A			
	chiang c.			
Teaching Methods	In-class a programs	applications, Assignments and student presentations related with different and skills.		
	The met	hodology unfolds the use of Digital Communication to a concentual		
	manipulat	tion design should engage from the earliest stages of the design process.		
	Through t	the use of technical drafting and modeling techniques, digital communication		

	also studies rendering and po Across an array of visual repu drafting rendering and graph and information in forms that	ost-processing phase of image and graphic presentation. resentations that include but are not limited to modeling, ic design the methods describe the conveyance of ideas can be read or looked upon.
Homework and Projects	6 assignments and 1 final sub	mission
Laboratory Work	-	
Computer Use	Yes	
Other Activities		
Assessment Methods	 Pre-class quizzes: Assignment1: Assignment2: Assignment3: Assignment4: Assignment5: Assignment6: Final Submissions: 	10 points 5 points 15 points 5 points 15 points 5 points 15 points 30 points (stands for final examination)
Course Administration	Email: <u>yilmazca@mef.edu.tr</u> Student participation will be both submissions including tl final grade. Late submissions 70% attendance are compuls Plagiarism: YÖK Disciplinary R	essential for the visual communication studio. Attending ne Final Portfolio Submission are crucial elements in the will not be accepted. Fory for a successful outcome. Academic Dishonesty and Regulation.

Activity	Vo/Weeks Hours			Calculation	Explanation	
	ks per Semeste r (A)	for the Activity (B)	the Activity Itself (C)	g the Activity Requireme		
Lecture	14	1	3	1	70	A*(B+C+D)
Lab etc.					0	
Midterm(s)					0	A*(B+C+D)
Project, Presentation	6	8	2	1	66	A*(B+C+D)
Final Assignment	1	15	2	1	18	A*(B+C+D)
Total Workload					154	
Workload/25					6,16	
ECTS					6	