



ECTS COURSE INFORMATION FORM

School/Faculty/Institute	Faculty of Arts, Design and Architecture		
Program	B.Sc. in Architecture	Elective	

Course Code	ARC 466			
Course Title in English	Green Strategies			
Course Title in Turkish	YEŞİL STRATEJİLER			
Language of Instruction	English			
Type of Course	Flipped Learning			
Level of Course	Undergraduate			
Semester	Spring			
Contact Hours per Week	Lecture: 3	Recitation:	Lab:	Other:
Estimated Student Workload	125 hours per semester.			
Number of Credits	5 ECTS			
Grading Mode	Standard Letter Grade			
Pre-requisites	None			
Expected Prior Knowledge	None			
Co-requisites	None			
Registration Restrictions	Only Undergraduate Students			
Overall Educational Objective	To learn basic knowledge of sustainability in architectural design and generating an overall awareness to a sustainable way of living.			
Course Description	This elective course aims to create a discussion around sustainability within the context of environmental design principles, low-energy buildings and green strategies. The course framework consists of not only sustainable design but also how we shape the physical environment with the acts and behaviors we commonly use in our everyday lives.			
Course Description in Turkish	Bu ders kapsamında sürdürülebilirlik ilkeleri, mimari tasarımda enerji verimliliği ve çevreyi gözetim tasarımları ilkeleri olarak ele alınmaktadır. Aynı zamanda günlük yaşamımızda sıklıkla kullandığımız davranış şekillerimiz ile fiziksel çevreyi nasıl değiştirdiğimiz üzerine stratejiler tartışılmaktadır (paylaşım ekonomisi, yeniden kullanım, atık geri-dönüşümü, ileri-dönüşüm, su kullanımı, geleceğin gıda üretimi, sürdürülebilir moda vb.)			

Course Learning Outcomes and Competences	<p>Upon successful completion of the course, the learner is expected to be able to:</p> <ol style="list-style-type: none"> 1. Know a basic knowledge of designing energy efficient buildings based on 5 main environmental design principles; 2. Understand about green building guidelines through LEED; 3. Consider the environmental factors in design process, the difficulties and potentials of the energy efficiency, indoor environmental quality and materials; 4. Watch and analyze a sustainability related documentary in a group discussion; 5. Raise social awareness about environmental problems related to current consumption tendencies.
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Relation to Program Outcomes and Competences: N=None S=Supportive H=Highly Related

Program Outcomes and Competences	Level	Assessed by
	N/S/H	Exam, Project, HW, Lab, Presentation, etc.
1. Ability to read, write and speak effectively in Turkish and English, equivalent to a B2 European Language Passport Level in English.	S	
2. Ability to question and interpret ideas considering diverse points of view; gather and use data, develop concepts related to people, places and the environment, and make individual decisions.	S	
3. Ability to use appropriate graphical methods including freehand and digital drawing techniques, (ECDL advanced) in order to develop ideas in addition to communicate the process of design.		
4. Ability to use fundamental principles of architectural design considering the place, climate, people, society as factors, and simultaneously express present principles in relevant precedents.	H	Weekly assignments
5. Understanding of architectural principles belonging to global and local cultures shaped by the climatic, technological, socioeconomic, cultural factors, in addition to principles of historic preservation while developing architectural and urban design projects.	S	
6. Understanding of the theories and methods used to describe the relationship between human behavior and physical environment; and concurrently understanding different needs, values, behavioral norms, social and spatial patterns of different cultures.	S	
7. Ability to apply various stages of design processes considering the client and user needs, which include space and equipment requirements besides site conditions and relevant laws and standards.	N	
8. Understanding of the role of applied research in determining function, form and systems and their impact on human conditions and behavior.	S	
9. Understanding of the basic principles of static and dynamic structural behavior that withstand gravity and lateral forces, in addition to the evolution and applications of structural systems.	N	
10. Ability to apply the principles of sustainability in architectural and urban design projects that aim to preserve the natural and historic resources and provide healthful environments.	H	Research project

11. Ability to apply the fundamental principles of building and safety systems such as mechanical, electrical, fire prevention, vertical circulation additionally to principles of accessibility into the design of buildings.	N	
12. Understanding of the basic principles in the selection of materials, products, components and assemblies, based on their characteristics together with their performance, including their environmental impact and reuse possibilities.	H	Weekly assignments
13. Ability to produce a comprehensive architectural project from the schematic design phase to design development phase, while integrating structural systems, life safety and sustainability principles.	S	
14. Understanding of the principles of environmental systems such as energy preservation, active and passive heating and cooling systems, air quality, solar orientation, day lighting and artificial illumination, and acoustics; in addition to the use of appropriate performance assessment tools.	H	Weekly assignments
15. Ability to choose appropriate materials, products and components in the implementation of design building envelope systems.	S	
16. Ability to understand the principles and concepts of different fields in multidisciplinary design processes and the ability to work in collaboration with others as a member of the design team.	S	
17. Understanding of the responsibility of the architect to organize and lead design and construction processes considering the environmental, social and aesthetic issues of the society.	H	Guest Lecturers
18. Understanding of the legal to responsibilities of the architect of the architect effecting the design and construction of a building such as public health and safety; accessibility, preservation, building codes and regulations as well as user rights.	S	
19. Ability to understand the ethical issues involved in the design and 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.	H	Weekly assignments
20. Understanding of the methods for competing for commissions, selecting consultants and assembling teams, recommending project delivery methods, which involve financial management and business planning, time management, risk management, mediation and arbitration.	N	

Prepared by and Date	MSc. Architect Nazlı Ödevci 13.04.2020	
Semester	Spring 2019-2020	
Name of Instructor	Nazlı ÖDEVÇİ	
Course Contents	Week	Topic
	1.	Introduction to the course and the content
	2.	Outlining the green building principles in six major topics, followed by Leadership in Energy and Environmental Design (LEED) guideline
	3.	Explanation of Sustainable Sites, Water Efficiency, Materials and Resources

	4.	<i>Explanation of Energy Efficiency, Indoor Environmental Quality, Location and Transportation</i>
	5.	In-class study of a small scale green building project
	6.	Discussions over sustainable development: The Natural Step
	7.	Discussions around fast fashion: environmental impacts
	8.	Discussions around fast fashion: ethics
	9.	Discussions around drinkable water
	10.	Discussions around food production and urban farming
	11.	Discussions around sharing economy
	12.	Discussions around waste: Can we reduce waste by knowing the ingredients?
	13.	Final Assessment
	14.	Final Assessment (Group project)
	15.	Final Examination Period
	16.	Final Examination Period
Required/Recommended Readings	Read:	<ol style="list-style-type: none"> 1. Kolektif (2015) - Sürdürülebilir Moda. Editor: Kipöz, Ş. Yeni İnsan Yayınevi, İstanbul 2. Uluengin, M. (2016), Zehirsiz Ev. Modus Kitap, İstanbul 3. Busch, O. (2015), Victims of Style, New York: Selfpassage 4. Busch, O. (2017) Moda Praksisi, Yeni İnsan Yayınevi
	Documentaries:	<ol style="list-style-type: none"> 1. The Story of Stuff / Şeylerin Hikayesi: 20 dk, ABD, 2007 2. The Story of Cosmetics / Kozmetiklerin Hikayesi: 3. The Story of Electronics / Elektroniklerin Hikayesi 4. The Story of Bottled Water / Şişelenmiş Suyun Hikayesi 5. The Plastic Ocean / Plastik Okyanus: 91 dk, ABD 6. Cosmos: A SpaceTime Odyssey, Episode 12: The World Set Free / Kosmos dizisi 12. Bölüm: 47 dk, USA, 2014 7. Man / İnsanoğlu: 4 dk, ABD, 2012 8. The Story of Bakeys Edible Cutlary / Kullan-Ye Kaşıkların Hikayesi: 4 dk, Hindistan, 2016 9. Wake Up Call / Uyandırma Çağrısı: 6 dk, ABD, 2014 10. Taste The Waste / Atığın Tadı: 88 dk, Almanya, 2011 11. Midway Island / Midway Adası 12. Unravel / Sökme: 14 dk, Hindistan, 2012 13. The True Cost / Gerçek Bedel: 92 dk, ABD, 2015 14. The life cycle of a t-shirt / Bir T-shirt'ün hayat döngüsü: 6 dk, ABD 15. Before the Flood: The Göksu River Valley: 8 dk, Turkey, 2017 16. Yedikule Gardens / Yedikule Bostanları: 7dk, Turkey, 2018 17. Power of Community: How Cuba Survived Peak Oil / Halkın Gücü: Küba Petrol Krizini Nasıl Aştı?: 53 dk, ABD, 2006
Teaching Methods	Instructional strategy and expectations for both students and instructional staff that follow from this. Student work modes (independently and/or in teams). Any work with the outside community – geographic or industry sector.	
Homework and Projects	Pre-class reads and documentaries, related 4 tasks, 1 individual research project, 1 group project	

Laboratory Work	-
Computer Use	Yes
Other Activities	Site visit
Assessment Methods	%40 In-Semester Works (active participation to the discussions during class, attendance, After-Class works and tasks) and %30 Middle of Semester Submission, %30 End of Semester Submission
Course Administration	Email: odevcin@mef.edu.tr There is a 70% attendance requirement. Attendance is also recommended for the lectures, site visits and documentary screenings. Students are expected to read the compulsory text/film given before attending to the class and should submit the works on time. Third party submissions are not accepted. Academic Dishonesty and Plagiarism: YÖK Disciplinary Regulation.

ECTS Student Workload Estimation	Activity	No/Weeks	Hours			Calculation	Explanation
		No/Weeks per Semester (A)	Preparing for the Activity (B)	Spent in the Activity Itself (C)	Completing the Activity Requirements (D)		
	Lecture	14	1	3	1	70	A*(B+C+D)
	Lab etc.					0	
	Midterm(s)					0	A*(B+C+D)
	Assingment, Project, Presentation, Jury	14	4	0	0	56	A*(B+C+D)
	Final Examination					0	A*(B+C+D)
	Total Workload					126	
	Total Workload/25					5,04	
	ECTS					5	