



ECTS COURSE INFORMATION FORM

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

Course Code	ARC 202
Course Title in English	Architectural Design IV
Course Title in Turkish	Mimari Tasarım IV
Language of Instruction	English
Type of Course	Flipped Learning, Studio
Level of Course	Undergraduate
Semester	Fall
Contact Hours per Week	Lecture: Recitation: Lab: Studio: 12
Estimated Student Workload	296 hours per semester.
Number of Credits	12 ECTS
Grading Mode	Standard Letter Grade
Pre-requisites	ARC 201
Expected Prior Knowledge	Three semesters of studio work
Co-requisites	None
Registration Restrictions	Only Undergraduate Students
Overall Educational Objective	To translate a functional program that contains public and private components into an architectural system, taking technological and contextual aspects into consideration.
Course Description	<p>Architectural Design IV is a studio course, designed to curate a learning environment, featuring an architectural design project of public and private use in a relatively complex context. The defining elements of the context might include social, physical, historical or political patterns. A further feature is the relatively high fidelity of building technology component in the overall architecture, emergent in the configuration and detailing of the structural system.</p> <p>The studio work is supported by the accompanying Architectural Technology 3 course, where students are supplied with consultancy on their structural systems and materials. Digital modelling platforms are put in use in the design process, moving beyond their previous role as representation components for presentations. The studio groups use a common term to start their analysis work. Students work as teams and individually respectively in the analysis and the main phases, presenting their work to a critical discussion environment in the mid-term and final pin-up sessions.</p>
Course Description in Turkish	<p>Mimari Tasarım 4, kamusal ve özel kullanım mekanlarının mevcut bağlama göre oluşturulan bir program etrafında örgütlendiği bir yapının mimari tasarımını ortaya çıkarmayı hedefleyen bir stüdyo dersidir. Oluşturulan tasarım belirgin bir fiziksel, sosyal, mimari ya da kültürel bağlam içinde yer alır. Kullanılan yapı teknolojisi özellikle strüktürel sistem tasarımı ve malzeme entegrasyonu açısından belirgin ve anlamlıdır. Ortak bir tema çevresinde gruplar halinde başlayan çevresel analiz çalışması bireysel tasarım projesi çalışması ile devam eder ve yapılanlar iki ara ve bir son sergi ile eleştirel tartışma ortamına sunulur. Mimari Teknoloji 3 dersi ile yapılan ortak çalışmalar stüdyoda kullanılır, öğrencilerin strüktürel sistem tasarımını destekler.</p>
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. qualify advanced digital representation techniques of architectural design2. relate site-specific social, cultural and environmental factors into the design process

3. demonstrate competence in selection and integration of structural systems into the architectural design

Relation to Program Outcomes and Competences: N=None S=Supportive H=Highly Related

Program Outcomes and Competences	Level N/S/H	Assessed by
		Reviews, HW, Assignment.
1. Ability to read, write and speak effectively in Turkish and English, equivalent to a B2 European Language Passport Level in English.	N	
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.	N	
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.	H	Project, Assignment Reviews
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	Project, Assignment Reviews
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.	N	
6. Understanding 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.	S	
8. Understanding the role of applied research in determining function, form and systems and their impact on human conditions and behavior.	N	
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.	H	Project, Assignment Reviews
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.	N	
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.	S	
12. Understanding 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.	S	Project, Assignment
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.	N	
14. Understanding 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.	N	
15. Ability to choose appropriate materials, products and components in the implementation of design building envelope systems.	S	Project, Assignment
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.	N	
17. Understanding the responsibility of the architect to organize and lead design and construction processes considering the environmental, social and aesthetic issues of the society.	N	
18. Understanding the legal responsibilities 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.	N	

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.	S	
20. Understanding 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	İrem Korkmaz 09.03.2020	
Semester	Fall 2019-2020	
Name of Instructor	Arda İnceoğlu, Şebnem Yücel, Avşar Karababa, Ali Paşaoğlu, Gamze İşcan, Zeynep Bacınoğlu	
Course Contents	Week	Topic
	1.	Introduction Site Seeing, potentials of the sites, photos, documentation
	2.	Group Work/Research on Subject
	3.	Group Work/Research on Subject
	4.	Group Presentations and Submission Site Analysis & Concept
	5.	Site Analysis & Concept
	6.	Site Analysis & Concept Mid-Term Reviews
	7.	Progress
	8.	Progress
	9.	Progress
	10.	Progress Technology Integration
	11.	Progress Technology Integration
	12.	Progress Mid-Term Reviews
	13.	Progress-Modelling Feedback
	14.	Final Tuning (Modelling, Layouts)
	15.	Final Assessment
	16.	Final Assessment
Required/Recommended Readings	Recommended Reading: Hebel, D.E., Wisniewska, M.H., Heisel, F. (2014) Building From Waste, Birkauer, Basel McDonough, W., Braungart, M. (2002) Cradle to Cradle, Northpoint Press, New York	
Teaching Methods	The course follows the 'Flipped classroom' model, with the in-class studies and studio work. Each Friday at the end of the class students are expected to upload their weekly productions to the shared folder.	
Homework and Projects	1 Research, 1 Preliminary assignment	
Laboratory Work	-	
Computer Use	Yes	
Other Activities	Field Trips	
Assessment Methods	1. %60 Studio Performance 2. %40 Final Submission	
Course Administration	Office: Block A, Floor 5 Email: karababaa@mef.edu.tr Student participation will be essential for the design studio. Attending both reviews including the Final Review are crucial elements in the final grade. 80% attendance is compulsory for a successful outcome.	

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	12	2	210	A*(B+C+D)
Lab etc.					0	
Midterm(s)	2	12	2	2	32	A*(B+C+D)
Assingment, Project, Presentation	1	12	2	2	16	A*(B+C+D)
Final Submission	1	35	3	0	38	A*(B+C+D)
Total Workload					296	
Total Workload/25					11,84	
ECTS					12	