ECTS COURSE INFORMATION FORM

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

Course Code	**ARC 301**			
Course Title in English	**Architectural Design V**			
Course Title in Turkish	**Mimari Tasarım V**			
Language of Instruction	**English**			
Type of Course	**Studio**			
Level of Course	**Undergraduate**			
Semester	**Fall**			
Contact Hours per Week	**Lecture:**	**Recitation:**	**Lab:**	**Studio: 12**
Estimated Student Workload	**240 hours per semester.**			
Number of Credits	**10 ECTS**			
Grading Mode	**Standard Letter Grade**			
Pre-requisites	**ARC 202**			
Expected Prior Knowledge	**Four semesters of studio work**			
Co-requisites	**None**			
Registration Restrictions	**Only Undergraduate Students**			
Overall Educational Objective	**To practice skills in technology integration into an architectural design project as well as developing complex architectural programs in urban context through advanced architectural representations**			
Course Description	**Architectural Design 5 is a studio course where students are expected to develop complex architectural programs emerging through conceptual frameworks in an urban context.** **The course is conducted in coordination with Architectural Technology IV, focused on the integration of building technology components (i.e. structural - environmental system and building material technology) within a spatial organization of different functions. The articulation of component spaces is synchronized with the structural system set up, providing an environment of active experimentation and learning for the participants.**			
Course Description in Turkish	**Mimari Tasarım 5 dersinde öğrencilerin belirli bir kavramsal çerçeve aracılığı ile kentsel bir bağlamda karmaşık programlar geliştirmeleri beklenmektedir. Bu ders, Mimari Teknoloji 4 dersi ile koordinasyon içinde yürütülen bir tasarım stüdyosudur. Ders mimari teknoloji bileşenlerinin, başta strüktürel sistem olmak üzere bir bir mekan örgütlemesi çerçevesinde mimari tasarım projesine entegre edilmesine odaklanır. Farklı kulanım mekanlarının ortak bir bütünde çözülmesi mekan-kurgu-teknoloji kompozisyonu konusunda katılımcılara tecrübe sağlar.**			
Course Learning Outcomes and Competences	**Upon successful completion of the course, the learner is expected to be able to:** **1. initiate complex architectural programs in urban context;** **2. integrate architectural technology and design;** **3. incorporate the appropriate technological components into an architectural design concept in preliminary and development phases;** **4. select and use materials for a specific situation in architectural space;** **5. display skills in organization of spaces within an architectural body that is responsive to its physical and social environment;** **6. apply advanced architectural representations into design process.**			

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

Program Outcomes and Competences	Level	Assessed by
	N/S/H	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.	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.	H	
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.	S	
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
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 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.	H	Project, Assignment
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.	H	
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
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.	S	
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.	H	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.	S	
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.	S	
15. Ability to choose appropriate materials, products and components in the implementation of design building envelope systems.	H	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.	H	
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.	H	
18. 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	

19. 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**	
Name of Instructor	**Burcu Serdar Köknar**	
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** **Group Presentations and Submission**
	4.	**Building Program & Concept**
	5.	**Building Program & Concept**
	6.	**Building Program & Concept** **Mid-Term Reviews**
	7.	**Progress**
	8.	**Progress**
	9.	**Progress**
	10.	**Progress**
	11.	**Progress** **Mid-Term Reviews**
	12.	**Progress**
	13.	**Progress-Modelling Feedback**
	14.	**Final Tuning (Modelling, Layouts)** **Preliminary Submission**
	15.	**Final Assessment**
	16.	**Final Assessment**
Required/Recommended Readings	**Recommended Reading:**	
Teaching Methods		
Homework and Projects		
Laboratory Work	**-**	
Computer Use	**Yes**	
Other Activities	**Field Trips**	
Assessment Methods		
Course Administration	**Office: Block A, Burcu Serdar Köknar, Room 514** **Email: koknarb@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. Late submissions will not be accepted.** **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	0	0	0	0	0	A*(B+C+D)
Lab etc.					0	
Midterm(s)	0	0	0		0	A*(B+C+D)
Assingment, Project, Presentation	14	2	12	2	234	A*(B+C+D)
Final Submission	1	12	3	0	15	A*(B+C+D)
Total Workload					240	
Total Workload/25					9,6	
ECTS					**10**	