

DEPARTMENT OF ARCHITECTURE PROGRAM INFORMATION

Date of establishment: Department of Architecture was established in 1997, and first graduates were awarded their degrees in the year 2001.

Objective:

The purpose of this program is for students to acquire professional qualifications, responsibilities and gain the ability to solve the problems of architecture and urban design by improving their organizational and communication skills with the practical and theoretical aspects of architecture.

Goals:

Our main objective is to educate innovative professionals who are collaborative, productive, and responsible, as well as, capable of interdisciplinary teamwork.

LEARNING OUTCOMES OF THE PROGRAM

Theoretical, Factual
<ol style="list-style-type: none">1. In the basic field related, for architectural design / planning / design activities and research, he/she has the knowledge and understanding, in a local, national and global context, to acquire from various media multidimensional information including discursive, theoretical and factual information, as well as professional service sensitivity in order to be able to reflect this knowledge in academic sharing environment.2. Within this framework, he/she has the knowledge and understanding related to the intellectual, discursive, scientific, technological, aesthetic, artistic, historical and cultural background necessary for the required field.3. She/he has the knowledge and understanding of people and community-oriented, environmentally conscious (natural and built) architectural design / planning / design / research methods of the related field.4. In the related field, he/she has a multidimensional knowledge and understanding of economic, environmental and social sustainability principles and standards, as well as issues on disasters.5. She/he has the knowledge on the principles, laws, regulations and standards related to the field.6. She/he has the knowledge and understanding of institutional and ethical values related to the field.7. She/he has the knowledge and understanding of the position and importance of the related field within historical, geographical, social and cultural context.

Cognitive, Applied
<ol style="list-style-type: none"> 1. She/he has the ability to develop a concept related to the fields of architectural design / planning / design. 2. She/he has the ability to provide a coherence of discourse, theory and practice for architectural design / planning / design activities and research. 3. On the issues of architectural design / planning / design, he/she has the ability to identify facts, potentials, problems, and the necessary research for these elements. 4. She/he employs theoretical / conceptual knowledge, cognitive and practical skills, research methods and techniques related to the field. 5. She/he has the ability to develop alternative constructions and solutions for architectural designs and planning. 6. She/he possesses the skills on interdisciplinary and interactive architectural design / planning / design issues. She/he employs the acquired knowledge, understanding and skills on the interpretation of contextual data, definition of problems and development of alternative architectural designs / planning / design decisions / projects / solutions which exhibit mastery and innovation.

The Ability to Work Independently and Take Responsibility
<ol style="list-style-type: none"> 1. She/he conducts an architectural design / planning / design project independently, plans and conducts research projects for these processes and generates new syntheses. 2. She/he conducts individual studies related to the field independently and takes individual and mutual responsibility in multi-disciplinary, interdisciplinary and transdisciplinary studies. She/he has the necessary self-confidence and competence for that. 3. She/he plans, conducts and takes responsibility on the shared works of an architectural design / planning / design project.

Learning Competence
<ol style="list-style-type: none"> 1. She/he acquires the knowledge and skills of the related field by evaluating with a critical and dialectical (critical, able to generate antithesis and synthesis) approach. 2. She/he focuses on the future, has the motivation and learning skills necessary for personal and professional growth, determines the learning requirements, makes plans for that and applies them. 3. She/he acts with a consciousness of lifelong learning.

Communication and Social Competence

1. She/he informs the related people and institutions on issues concerning the related field, transfers the thoughts and suggestions for solutions in written, orally and visually, and shares knowledge, which is supported by quantitative and qualitative data, with professional and non-professional people.
2. With a consciousness of social responsibility, she/he organizes and applies collaborations and events for the social environment she/he is living in.
3. By speaking a foreign language at least at a European Language Portfolio B1 General Level, she/he follows the developments in the field and communicates effectively with colleagues.
4. She/he interactively uses the information technologies, which the field presents, with computer software at least with Advanced Level of European Computer Driving License.

Field-based Competence

1. In the field of profession, professional application and professional research, she/he acts with a consciousness of understanding and behavior, related to ethics and codes of conducts, as well as social responsibility.
2. During the process of architectural design / planning / design, she/he collects, evaluates and interprets the data, which will form the necessary basis in order to make decisions by considering the possible social, environmental and ethical consequences.
3. She/he has the ability to critically and dialectically evaluate the knowledge of the field. With a professional approach the discipline requires and according to the ethical principles, she/he employs the possessed knowledge, understanding and skills appropriately with professional code of conducts, criteria, standards and legal framework while considering the possible social, environmental and ethical consequences.
4. She/he decides and acts with a knowledge of human value and a respect for human rights, social and cultural rights on this context, as well as with a sensitivity towards the conservation of the natural environment and cultural heritage, and a sense of justice.
5. With a consciousness of the benefits of her/his profession regarding human rights and community and that the profession generates public service, she/he has a necessary sensitivity towards social justice, quality culture, conservation of natural and cultural values, protection of environment, occupational safety and health and legal framework considering professional services and ethical principles, as well as having personal sensitivity towards issues on fair behavior.
6. In the historical era she/he is living in, she/he has the knowledge and awareness of the common and professional problems in terms of local, regional, national and global aspects.

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Teaching & Learning Methods

Teaching and learning methods and strategies are chosen to improve the student's skills such as self learning, life-long learning, observation, teaching others, presentation, critical thinking, teamworking and IT.

Also, to achieve a better learning with students having different learning styles, the program is supported by convenient methodologies given below*:

Teaching and Learning Methods	Major Learning Activities	Tools
Lecture	Listening and interpretation	Classware, multimedia, data projector, computer, overhead projector
Lecture with Discussion	Listening and interpretation, Observation/manipulation situations, critical thinking, question posing	Classware, multimedia, data projector, computer, overhead projector
Tutorial / Structured Exercise	Specific predetermined skill	
Problem Solving	Specific predetermined skill	
Case Study	Specific predetermined skill	
Brainstorming	Observation/manipulation situations, critical thinking, question posing, creative teamwork	
Small Group Discussion	Listening and interpretation, Observation/manipulation situations, critical thinking, question posing	Classware, Multimedia, data projector, computer, overhead projector
Demonstration	Observation/manipulation situations	Tools that allow observation followed by virtual application
Simulation	Observation/manipulation situations, IT Skills	Tools that allow observation followed by virtual application
Seminars	Research skills, writing, reading, IT Skills, Listening and interpretation, Observation/manipulation situations, organizational skills	Classware, multimedia, data projector, computer, overhead projector, specific hardware
Group work	Research skills, writing, reading, IT Skills, critical thinking, question posing, organizational skills, teamwork	Web directories, database, e-mail, online discussion, web-based discussion forums
Fieldwork	Observation/manipulation situations, Research skills, writing, reading	
Laboratory	Observation/manipulation situations, IT Skills, organizational skills, teamwork	Specific hardware

Homework	Research skills, writing, reading, IT Skills	Web directories, database, e-mail
Recitation	Research skills, manipulation situations, question posing, interpretation, presentation	
Worksheets/Surveys	Research skills, writing, reading	
Panel of Experts	Listening and interpretation, Observation/manipulation situations	Classware, multimedia, data projector, computer, overhead projector, specific hardware
Guest Speaker	Listening and interpretation, Observation/manipulation situations	Classware, multimedia, data projector, computer, overhead projector, specific hardware
Student Club Activities / Projects	Observation/manipulation situations, critical thinking, question posing, creative team work, Research skills, organizational skills, writing, reading, specific predetermined skill	

(*) Depending on the course specifications, one or more teaching and learning methods might be implemented.

COURSE CATEGORIES	ECTS
SUPPLEMENTARY COURSES	
AFE 131 Academic English I	4
AFE 132 Academic English II	4
Total	8
BASIC OCCUPATIONAL COURSES	
MATH 131 Calculus I	6
LAW 435 Law of Architects	3
Total	9
EXPERTISE/FIELD COURSE	
FA 102 Architectural Basic Design	6
FA 103 Information Technology for Architects	3
FA 106 Architectural Drawing	6
FA 108 Construction	5
FA 203 Computer Aided Design	3
FA 206 Building Materials	4
FA 207 History of Architecture I	3
FA 208 History of Architecture II	3
FA 307 History of Architecture III	3
ARCH 109 Fundamentals of Architecture	4
ARCH 138 Architectural Presentation Skills	4
ARCH 213 Construction II	6
ARCH 214 Construction Project	6
ARCH 246 Theory of Buildings	5
ARCH 253 Architectural Design I	10
ARCH 254 Architectural Design II	12
ARCH 261 Building Statics	5
ARCH 265 Mechanical & Electrical Building Services	4
ARCH 273 CAD for Architecture	4
ARCH 310 Building Physics	5
ARCH 321 Analysis of Historical Buildings	6
ARCH 345 Architectural Structural Design	5
ARCH 353 Architectural Design III	12
ARCH 354 Architectural Design IV	12
ARCH 418 Architectural Project Management	5
ARCH 419 Contemporary World Architecture	4
ARCH 453 Architectural Design V	12
ARCH 467 Theory & Application of Town Planning	6
ARCH 493 Architectural Design VI	16
ARCH 495 Graduation Thesis	4
Seçmeli 1. ARCH 325 Architectural Surface Modelling Techniques	5
Seçmeli 2. ARCH 327 Advanced Modeling and Animation Techniques	5
Seçmeli 3. ARCH 328 Building Information Modeling (BIM)	5
Seçmeli 4. ARCH 362 History of Town Planning	5
Seçmeli 5. ARCH 432 Modelling and Photography	5
Seçmeli 6. ARCH 447 Urban Renewal and Regeneration	5
Seçmeli 7. ARCH 472 Stone Conservation Technology	5
ARCH 200 Summer Practice I	2
ARCH 300 Summer Practice II	2
Total	222
COURSE ON COMMUNICATION AND MANAGEMENT SKILLS	
HUM 103 Humanities	3
TKL 201 Turkish I	2

TKL 202 Turkish II	2
HTR 301 History of Turkish Revolution I	2
HTR 302 History of Turkish Revolution II	2
Total	11
Total ECTS	250

Level of Qualification:

This program is a first cycle (undergraduate) programme of 240 ECTS credits in the area of Architecture.

Students who complete the program successfully and acquire the program competencies receive a Bachelor's degree in Architecture

Admission Requirements:

In line with the academic and legal procedures of the university, the students who apply for admission into the program should follow the process governed by ÖSYM (Higher Education Council Student Selection and Placement Centre) and succeed in the university entrance examination. Students who have started an equivalent programme in Turkey or abroad may apply for transfer to the program. Application of the student is evaluated before the semester starts considering the credentials of the student and the degree for which s/he is applying. Detailed information regarding admission to the university is available in the university catalogue.

Students, who come to the university from abroad through exchange programmes whose conditions have been drawn by an agreement and approved by the university may take the courses offered in the programme. To take a course, the student should demonstrate that s/he has completed its prerequisite courses or their equivalents. All courses in the programme curriculum are conducted in English.

OCCUPATIONAL PROFILES

Graduates of the department can be employed in public institutions and private sector, and work in different stages of the preparation process of a project, application and control stages of every type of building. Meanwhile, many of our graduates continue their education at the graduate level and receive Masters and Doctorate degrees in the area of architecture and related fields.

GRADUATION REQUIREMENTS:

In order to graduate from the programme, a student is required complete a total of 46 courses including 41 compulsory, 1 free elective and 4 technical elective courses to receive a total of 130 credits and 240 ECTS and obtain a CGPA of at least 2.00/4.00. The list of courses in the curriculum are provided in the table below. Among these

courses, ARCH 492 Graduation Project allows the student to apply the knowledge they have acquired during the program to a real-life architectural project. Moreover, each student is required to work as an intern on a construction site and in an architectural office that has been approved by the department, for a total of 80 working days. This compulsory internship is listed with course codes ARCH 200 and ARCH 300 in the table below.

Polls Applied to students



T.C. YEDİTEPE ÜNİVERSİTESİ Mühendislik ve Mimarlık Fakültesi

Ders Çıktı Değerlendirme Anketi

Please use the following scale to rate how the outcomes are served by this course:

(Note to the instructor: If an outcome is not served by this course, please ask your students to rate it as "NA" before filling out the rest of the evaluation).

NA: Not Applicable (does not serve)

1. Very little 2. Little 3. Moderately 4. Well 5. Very well

Lütfen aşağıdaki puanlama sistemini kullanarak bu dersin çıktılarına nasıl hizmet verdiğini değerlendiriniz:

(Öğretim üyesine not: Öğrencilerinizin anketin geri kalanını değerlendirmeden önce dersinizin hizmet vermediği çıktıları "ID" şeklinde işaretlemelerini sağlayınız).

ID: İlgili değil (hizmet vermiyor)

1. Çok az 2. Az 3. Orta 4. İyi 5. Çok iyi

DERS KODU									
Kod	No			Şube	Dönem		Yıl		
CSE 0	0	0	0	0	Güz	0	0	0	0
BME 1	1	1	1	1	Bahar	1	1	1	1
EE 2	2	2	2	2			2	2	2
GBE 3	3	3	3	3			3	3	3
FDE 4	4	4	4	4			4	4	4
CE 5	5	5	5	5			5	5	5
CHBE 6	6	6	6	6			6	6	6
ME 7	7	7	7	7			7	7	7
SYE 8	8	8	8	8			8	8	8
	9	9	9	9			9	9	9

		NA / ID	ÇOK AZ	AZ	ORTA	İYİ	ÇOK İYİ
i	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems. (Matematik, fen bilimleri ve kendi dalları ile ilgili mühendislik konularında yeterli bilgi birikimi; bu alanlardaki kuramsal ve uygulamalı bilgileri mühendislik problemlerini modelleme ve çözme için uygulayabilme becerisi.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ii	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose. (Karmaşık mühendislik problemlerini saptama, tanımlama, formüle etme ve çözme becerisi; bu amaçla uygun analiz ve modelleme yöntemlerini seçme ve uygulama becerisi.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
iii	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose. (Realistic constraints and conditions may include factors such as economic and environmental issues, sustainability, manufacturability, ethics, health, safety issues, and social and political issues, according to the nature of the design.) (Karmaşık bir sistemi, süreci, cihazı veya ürünü gerçekçi kısıtlar ve koşullar altında, belirli gereksinimleri karşılayacak şekilde tasarlama becerisi; bu amaçla modern tasarım yöntemlerini uygulama becerisi. (Gerçekçi kısıtlar ve koşullar tasarımın niteliğine göre, ekonomi, çevre sorunları, sürdürülebilirlik, üretilebilirlik, etik, sağlık, güvenlik, sosyal ve politik sorunlar gibi öğeleri içerirler).)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
iv	Ability to devise, select, and use modern techniques and tools needed for engineering practice; ability to employ information technologies effectively. (Mühendislik uygulamaları için gerekli olan modern teknik ve araçları geliştirme, seçme ve kullanma becerisi; bilişim teknolojilerini etkin bir şekilde kullanma becerisi.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
v	Ability to design and conduct experiments, gather data, analyze and interpret results for investigating engineering problems. (Mühendislik problemlerinin incelenmesi için deney tasarlama, deney yapma, veri toplama, sonuçları analiz etme ve yorumlama becerisi.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
vi	Ability to work efficiently in intra-disciplinary and multi-disciplinary teams; ability to work individually. (Disiplin içi ve çok disiplinli takımlarda etkin biçimde çalışabilme becerisi; bireysel çalışma becerisi.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
vii	Ability to communicate effectively both orally and in writing; knowledge of a minimum of one foreign language. (Sözlü ve yazılı etkin iletişim kurma becerisi; en az bir yabancı dil bilgisi.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
viii	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself. (Yaşam boyu öğrenmenin gerekliliği bilinci; bilgiye erişebilme, bilim ve teknolojiadaki gelişmeleri izleme ve kendini sürekli yenileme becerisi.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ix	Awareness of professional and ethical responsibility. (Mesleki ve etik sorumluluk bilinci.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
x	Information about business life practices such as project management, risk management, and change management; awareness of entrepreneurship, innovation, and sustainable development. (Proje yönetimi ile risk yönetimi ve değişiklik yönetimi gibi iş hayatındaki uygulamalar hakkında bilgi; girişimcilik, yenilikçilik ve sürdürülebilir kalkınma hakkında farkındalık.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
xi	Knowledge about contemporary issues and the global and societal effects of engineering practices on health, environment, and safety; awareness of the legal consequences of engineering solutions. (Mühendislik uygulamalarının evrensel ve toplumsal boyutlarda sağlık, çevre ve güvenlik üzerindeki etkileri ile çağın sorunları hakkında bilgi; mühendislik çözümlerinin hukuksal sonuçları konusunda farkındalık.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

YEDİTEPE UNIVERSITY - FACULTY OF ENGINEERING AND ARCHITECTURE
INSTRUCTOR EVALUATION FORM

20.5x28.5



YEDİTEPE ÜNİVERSİTESİ - MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ
ÖĞRETİM ÜYESİ DEĞERLENDİRME FORMU

The purpose of this form is to enable you to evaluate the course instructor's performance. Feedback from students is very important for improving the level of education in our Faculty. Hence, please answer the questions objectively. Bu formun amacı dersi veren öğretim üyesinin performansını değerlendirmenizi sağlamaktır. Fakültemizdeki eğitimin kalitesini arttırmak için öğrencilerden gelen geri dönüşümler çok önemlidir. Bu nedenle, lütfen bütün soruları tarafsızca cevaplayınız.

1 1 1 2 0 1 0 7										COURSE									
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9

ABOUT THE STUDENT
ÖĞRENCİ HAKKINDA

1. Letter grade I expect from this course Bu dersten beklediğim harf notu	<input type="radio"/> F	<input type="radio"/> DD/DC	<input type="radio"/> CC/CB	<input type="radio"/> BB/BA	<input type="radio"/> AA
2. The proficiency of my English to follow the course Dersi takip edebilmek için İngilizcemin yeterliliği	<input type="radio"/> Very Poor	<input type="radio"/> Poor	<input type="radio"/> Fair	<input type="radio"/> Good	<input type="radio"/> Very Good
3. My course attendance Derse devamım	<input type="radio"/> <49%	<input type="radio"/> 50-69%	<input type="radio"/> 70-79%	<input type="radio"/> 80-89%	<input type="radio"/> 90-100%
4. Amount of homework assignments and projects I've turned in Yapıp teslim ettiğim ödev ve proje miktarı	<input type="radio"/> <49%	<input type="radio"/> 50-69%	<input type="radio"/> 70-79%	<input type="radio"/> 80-89%	<input type="radio"/> 90-100%
5. Benefits I've gained by doing the homework assignments and projects Ödev ve proje yapmış olmaktan kazanımlarım	<input type="radio"/> Very Poor	<input type="radio"/> Poor	<input type="radio"/> Fair	<input type="radio"/> Good	<input type="radio"/> Very Good
6. Total number of hours I spent on this course per week (including lectures and labs) Bu derse harcadığım haftalık toplam saat (ders ve laboratuvar saatleri dahil)	<input type="radio"/> 1-4 hrs	<input type="radio"/> 5-6 hrs	<input type="radio"/> 7-8 hrs	<input type="radio"/> 9-10 hrs	<input type="radio"/> >10 hrs

ABOUT THE INSTRUCTOR
ÖĞRETİM ÜYESİ HAKKINDA

	Very Poor	Poor	Fair	Good	Very Good
7. Fairness of the grading policy Not vermedeki adaleti	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Quality of the assigned homework Verilen ödevlerin öğreticiliği	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Availability of the supplementary course materials (class-notes, handouts, solutions, etc.) Derse destek materyallerinin varlığı (ders notu, derste verilenler, çözümler, vs.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Ability to generate interest and interaction in class Derse ilgi çekme ve katılım sağlama yeteneği	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. Ability to use the English language İngilizce diline hakimiyeti	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Efficient use of teaching aids (PC, projector, whiteboard, etc.) Eğitime yardımcı araçları verimli kullanımı (PC, projeksiyon cihazı, tahta, vs.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. Informative quality of the "syllabus" handed out at the beginning of the semester Dönemin başında dağıtılan "ders planı"nın bilgilendirme niteliği	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. Clarity of the lectures Dersin anlaşılabilirliği	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. Preparedness for the lectures and organization Derse hazırlıklı geliş ve organizasyonu	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16. Mastery of the course material Dersin konularına hakimiyeti	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17. Clarity of handwriting El yazısının okunabilirliği	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18. Clarity of descriptions, examples and illustrations presented in the lectures Derste verilen tanımlar, örnekler ve şekillerin anlaşılabilirliği	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19. Availability during office hours Ofis saatlerinde ulaşılabilirliği	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20. Efficient and effective use of the lecture time Ders saatini verimli ve etkili kullanımı	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21. Prompt grading and posting solutions Notları ve çözümleri kısa sürede ilan etmesi	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22. Would you choose another course from this instructor? Bu öğretim üyesinden başka ders seçer miydiniz?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If you have additional comments, please use this section
Ekleyeceğiniz yorumlarınız varsa, lütfen bu kısmı kullanınız

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
Architectural Basic Design	FA 102	1	2+4+0	4	6

Prerequisites	-
Language of Instruction	Turkish
Course Level	Bachelor's Degree
Course Type	Compulsory
Course Coordinator	Doç.Dr.Ece Ceylan Baba
Instructors	Doç.Dr.Ece Ceylan Baba, Dr. Didem Boyacıoğlu, Tülin Nilay Yurtsever,
Assistants	
Goals	Comprehension of design principles and elements. Designing with collating, editing, modifying, transforming or creating different organizations creation skills. Examining the concepts that form the basis of architectural design. The development of space-building consciousness by creating a design language.
Content	The applications on a theoretical and visual infrastructure are intended to abstract the visual space and spatial components through the creation of a set of problems for the development of creative thinking and purification of the student from conditioning.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. Competence in visual perception, abstraction and three dimensional thinking.	2,3,4,5	1,3,5	A,B,C
2. Ability of conception, questioning, enhancement, design, production and visualization in scope of the main concepts, principles and elements regarding space.	4,5,7	1,3,5	A,B,C
3. Skill in simultaneous understanding of relationships (reading/decoding) and developing relationships (writing/encoding) in regard to design by enhancing analytical thought.	4,5,6	1,3,5	A,B,C
4. Awareness of space concepts and space generation methods.	2,5	1,3,5	A,B,C

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction to Basic Design themes: concept of design, design: process	
2	Point/Line/Plane/Volume Application 01: Composition with points Application 02: Composition with lines.	
3	Design principles. Gestalt principles. Figure/Background relationship. Application 03: Composition using principle of repetition.	
4	Study of design principles through 2 dimensional transformations. Application 04: Tangram	
5	Study of design principles through 2 dimensional transformations. Application 05: Metamorphosis	
6	Planes: 3 dimensional transformation using planes. Application 06: Metamorphosis model preliminary work	
7	Planes: 3 dimensional transformations using planes. Application 06: Metamorphosis model completion/evaluation.	
8	Planes: Color/Texture/Light Application 07: Texture	
9	Volumes: Solid/Void – 3 dimensional transformation of volumes. Assignment 08: Solid/Void composition through subtraction.	
10	Volumes: Solid/Void – 3 dimensional transformation of volumes.	

	Application 09: Solid/Void composition through addition.	
11	Midterm Project submission/evaluation.	
12	Proportion/Scale. Circulation. Space Organizations: In between spaces, Adjacent spaces, Intersecting spaces, Space within space. Assignment 10: Space organization assignment preliminary work.	
13	Space Organizations: In between spaces, Adjacent spaces, Intersecting spaces, Space within space. Assignment 10: Space organization assignment completion/evaluation.	
14	Final Project preliminary work/critique.	

RECOMMENDED SOURCES

Textbook	<ul style="list-style-type: none"> CHING Francis D.K., <i>Architecture: Form, Space and Order</i> (UK: John Wiley & Sons Inc., 1996)
Additional Resources	<ul style="list-style-type: none"> ANGELIL Mark, HEBEL Dirk, <i>Deviations: Designing Architecture, a Manual</i> (Basel: Birkhauser, 2008) BIELEFELD Bert, <i>Basics / Design Ideas</i> (Basel: Birkhauser. 2007) ITTEN Johannes, <i>Design and Form -The Basic Course at the Bauhaus and Later</i> (NY:Van Nostrand Reinhold Company, 1976)

MATERIAL SHARING

Documents	
Assignments	
Exams	

ASSESSMENT

IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	%20
Homework		
Project (Assignment)	10	%30

Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)	1	%50
Contribution of Final Examination to Overall Grade		%50
Contribution of In-term Studies to Overall Grade		%50
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	6	84
Workload outside the classroom (research and reviews)	14	4	56
Quiz			
Homework	2	6	12
Presentation/Seminars			
Midterm	1	6	6
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	4	4
Total work load			162
Total work load / 25			6.48

ECTS of the course			6
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COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards				X	
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.				X	
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes			X		
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					X
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout				X	
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments			X		
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the					

	preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					

26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Information Technology for Architects	FA 103	1	1+0+2	2	3

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	
Assistants	
Goals	Understanding the basic concept of geometric thinking and the importance of information technologies in architectural studies, actualizing 2D and 3D drawing in digital environment and learning basic presentation skills to prepare the digital drawing.
Content	Experiments on geometric thinking, 2D and 3D drawings through computer programs particularly with Google Sketchup.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. Ability to figure and convey in 2D and 3D in design process	3,5,7	1,2,3	A, D
2. Ability to draw 2D and 3D through computer	3,5,7	1,2,3	A,D
3. Ability to convey ideas through the usage of digital presentation techniques.	3,5,7,13	1,2,3	A,D
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	THE IMPORTANCE OF INFORMATION TECHNOLOGIES IN ARCHITECTURE	Textbook
2	FONDAMENTALS OF GEOMETRIC THINKING AND INTRODUCTION TO SKETCH-UP SOFTWARE	Textbook
3	2D DRAWINGS THROUGH SKETCH-UP	Textbook
4	3D DRAWINGS THROUGH SKETCH-UP I	Textbook
5	3D DRAWINGS THROUGH SKETCH-UP II	Textbook
6	3D DRAWINGS THROUGH SKETCH-UP II	Textbook
7	3D DRAWINGS THROUGH SKETCH-UP IV	Textbook
8	3D DRAWINGS THROUGH SKETCH-UP V	Textbook
9	USING AND CREATING NEW COMPONENTS	Textbook
10	DIMENSIONING, LAYERS	Textbook
11	MIDTERM I	
12	VISUALISATING THE FINAL DRAWINGS	Textbook
13	INTRODUCTION TO DIGITAL PRESENTATION TECHNIQUES	Textbook
14	GENERAL DISCUSSION	

RECOMMENDED SOURCES	
Textbook	Köksal, A. T. Sketchup, Pusula Yayıncılık, 2012 Roskes, B, Google SketchUp Cookbook, , O'Reilly, 2009
Additional Resources	

MATERIAL SHARING	
Documents	

Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	40
Homework		
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)	1	60
Contribution of Final Examination to Overall Grade		60
Contribution of In-term Studies to Overall Grade		40
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	13	4	52
Workload outside the classroom (research and reviews)			
Quiz			
Homework		2	

Presentation/Seminars			
Midterm			
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	4	4
Total work load			56
Total work load / 25			2.24
ECTS of the course			3

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design				x	
6	Design skills: Ability to apply basic architectural principles in building,					

	interiors and layout					
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments	x				
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans	x				
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with					

	an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Architectural Drawing	FA 106	1	2+2+0	3	6

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	
Assistants	
Goals	It is aimed to make the students draw according to the principals and rules of technical drawing in valid all over the world.
Content	Within the context of this course the project of a house with a couple spaces will be worked by starting from the drawings of geometric forms and objects. The house project will be drawn in terms of application project with furnishing of wet spaces and sizes as well. Practices over drawings of objects, house plan and sections of them will be made by students.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1) Student, gains the ability to percept and draw basic and complicated geometrical forms.	3,5,6,13	1, 5	A, C
2) Student, learns technical drawing; a universal tool for drawing and reading projects, surveying and designing.	3,5,6,13	1, 5	A, C
3) Student, gains the capability of 2 and 3 dimensional presentation by the presentation of basic building elements of an exemplar project with plans, sections and elevations.	3,5,6,13	1, 5	A, C

4) Student, gains the theoretical knowledge of technical drawing in relation with its connections and collaborations with other disciplines.	3,5,6,13	1, 5	A, C
5) Student, becomes capable of creating 2 and 3 dimensional designs, architectural compositions. Comprehends visual perception and arrangement techniques.	3,5,6,13	1, 5	A, C
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction to the course. Introduction to orthographical projection. Project reading and drawing; Introduction to drawing environment, tools and their use, freehand drawing.	
2	Projection. Coordinates and projection methods, Drawing planes. Inclined axonometric (Cavalier); Use of drawing tools, drawing, hatching and dotting techniques. Three-dimensional practice	
3	Projections of dots, lines and planes. Concept of plan, section and elevation (Military perspective); surveying from a model with the help of two-way expression technique, three dimensional readout.	
4	Developing the concept of plan, section and elevation. Perpendicular axonometric (Isometric); Line dialect, thickness, depth, distance, section and expression of materials.	
5	Comprehending the surfaces of the objects, 3 dimensional readout in drawing plane; Working with plan, section and elevations, dimensioning techniques.	
6	Midterm I; In-term Portfolio Evaluation	
7	Introduction of basic building elements on a 1/100 scale project. Foundation and roof; Working with 1/100 scale plan, section and elevations. Dimensioning techniques.	

8	Definition and application of building elements on a 1/50 scale project. Symbols; 1/50 Plan study, Military perspective practice. Symbol dialect.	
9	Definition and application of building elements on a 1/50 scale project. Parallel Perspective, (Inclined Axonometric) Cavalier; 1/50 scale section, elevation study, Cavalier perspective practice.	
10	Definition and application of building elements on a 1/50 scale project. Parallel Perspective, (Perpendicular Axonometric) Isometric; 1/50 scale elevation study, Isometric perspective practice.	
11	Midterm II; In-term Portfolio Evaluation	
12	Review of building elements on 1/50 scale project; 1/50 Project study	
13	Review of building elements on 1/50 scale project; 1/50 Project study	
14	Make-up Exam, Review of building elements on 1/50 scale project; 1/50 Project study, practice and general review.	
15		

RECOMMENDED SOURCES	
Textbook	<ul style="list-style-type: none"> . Mimarlıkta Teknik Resim. Prof.Dr.Orhan Şahinler . İzdüşümler. Prof.Dr.Latife Gürer . Mimaride İzdüşüm ve Çizim Yöntemleri. Prof.Dr.Çetin Türkçü . Çizimlerle Bina Yapım Rehberi. Francis D.H. Ching .
Additional Resources	<ul style="list-style-type: none"> . Manual of Graphic Techniques 4, Tom Porter . Architectural Drawing, John Willey & Sons . Graphic Thinking for Architects and Designers, P.Lesau

MATERIAL SHARING	
Documents	
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE

Mid-terms	2	15
Homework	1	30
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other	1	15
Final Exam (Final Project)	1	40
Contribution of Final Examination to Overall Grade		40
Contribution of In-term Studies to Overall Grade		60
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	5	70
Workload outside the classroom (research and reviews)	14	2	28
Quiz			
Homework	14	3	42
Presentation/Seminars			
Midterm	2	5	10
Project	5	1	5
Laboratory			
Field survey			
Others			

Final exam (Final Project)	1	5	5
Total work load			160
Total work load / 25			6,4
ECTS of the course			6

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.				4	
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design				4	
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout			3		
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as					

	climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans			3		
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and					

	building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Computer Aided Design	FA 203	2	1+0+2	2	3

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	
Assistants	
Goals	Drawing and modelling 2d and 3d architectural drawings on computer.
Content	Using Computer Aided Design on architectural projects, drawings and 3 dimensional modelling.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. Ability to apply AutoCAD software to architectural drawings and projects	1,3,4,5,6,7,12,13, 27	1,2,3,6	A,C
2. Ability to have graphic communication skills	3, 4, 5, 6, 12,13,	1,2,3,6	A,C
3. Ability to have design skills	1,3,4,5,6	1,2,3,6	A,C
4. Ability to provide and examine technical documentation	2, 4, 7, 28	1,2,3,6	A,C
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction of AutoCAD programme and its interface	
2	Using 2d drawing commands 1	Drawing Basic Plan
3	Using 2d drawing commands 2	Drawing Staircase
4	Using modify tools 1	House Plan
5	Using modify tools 2	Bathroom Plan
6	Dimension tools	Kitchen Plan
7	General overview	
8	Midterm	
9	Using reference and readymade blocks	Plan-Section
10	Generating 2d project	Stair section
11	Introduction to 3d drawing tools	3d objects
12	Using 3d drawing modelling tools 1	2 Floor House
13	Using 3d drawing modelling tools 1	3d U-Shape Stair
14	Using 3d modifying tools	3d Spiral Stair
15	Overview	

RECOMMENDED SOURCES	
Textbook	
Additional Resources	<ul style="list-style-type: none"> . Baykal, G., 2009, Her Yönüyle AutoCAD 2010, ALFA Yayıncılık, İstanbul. . Baykal, G., Öğütü, M., 2010, Her Yönüyle AutoCAD 2010, ALFA Yayıncılık, İstanbul. . Baykal, G., 2011, Her Yönüyle AutoCAD 2011, ALFA Yayıncılık, İstanbul. . Baykal, G., 2012, Her Yönüyle AutoCAD 2012, ALFA Yayıncılık, İstanbul. . Omura, G., 2009, Mastering AutoCAD 2009 & AutoCAD LT 2009, ALFA Yayıncılık, İstanbul.

MATERIAL SHARING	
Documents	AutoCAD introduction DVD, Tutorial DVD's.
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	%30
Homework	2	%10
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)	1	%60
Contribution of Final Examination to Overall Grade		%60
Contribution of In-term Studies to Overall Grade		%40
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	3	42
Workload outside the classroom (research and reviews)	14	1	14

Quiz			
Homework	2	10	20
Presentation/Seminars			
Midterm	1	3	3
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	3	3
Total work load			82
Total work load / 25			3,28
ECTS of the course			3

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills			X		
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards		X			
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					X
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes			X		
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design,				X	

	architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout				X	
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments		X			
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects		X			
13	Human behaviors: Understanding the interaction between physical environment and humans			X		
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					

20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					X
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					

35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					
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COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
Building Materials	FA 206	1	2+0+0	2	4

Prerequisites	-
Language of Instruction	English
Course Level	Undergraduate
Course Type	Compulsory
Course Coordinator	
Instructors	Prof.Dr. Volkan GÜNAY; volkan.gunay@yeditepe.edu.tr
Assistants	
Goals	
Content	

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve	4, 13, 16, 18, 20, 22, 25, 34	1, 2, 3	A, D

engineering problems.			
Ability to work efficiently in intra-disciplinary and multi-disciplinary teams; ability to work individually.	4, 13, 16, 18, 20, 22, 25, 34	1, 2, 3	A, D
Ability to communicate effectively both orally and in writing; knowledge of a minimum of one foreign language.	4, 13, 16, 18, 20, 22, 25, 34	1, 2, 3	A, D
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction to Materials and Engineering	
2	Bondings, Structure and Properties of Materials	Lecture notes
3	Mechanical Properties and Testing of Materials	Lecture notes
4	Testing of Building Materials	Lecture notes
5	Metallic Materials and Alloys	Lecture notes
6	Wood and Timber	Lecture notes
7	Cement and Concrete	Lecture notes
8	Cement and Concrete – Midterm 1	Lecture notes
9	Clay-based Ceramics (Bricks and Tiles)	Lecture notes
10	Holiday	Lecture notes
11	Ceramics	Lecture notes
12	Glasses	Lecture notes
13	Polymeric Materials	Lecture notes

14	Composite Materials – Midterm 2	Lecture notes
15	Materials Recycling	Lecture notes

RECOMMENDED SOURCES		
Textbook	Materials Science and Engineering, W.D. Callister,Jr, D.G. Rethwisch, 9th Edition, Wiley, 2015.	
Additional Resources	Introduction to Materials Science for Engineers, J.F. Shackelford, 7th Edition Prentice Hall, 2009. Lecture notes will be given by the Lecturer	

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ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	%30
Homework		
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)	1	%40
Contribution of Final Examination to Overall Grade		

Contribution of In-term Studies to Overall Grade		
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	2	28
Workload outside the classroom (research and reviews)	10	3	30
Quiz	2	2	4
Homework			
Presentation/Seminars			
Midterm	2	5	10
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	5	5
Total work load			77
Total work load / 25			3,08
ECTS of the course			3

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5

1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					

16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					

31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
History of Architecture I	FA 207	2	2+0+0	2	3

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Basic Career
Course Coordinator	Assist. Prof. Gözde ÇELİK
Instructors	Assist. Prof. Gözde ÇELİK
Assistants	
Goals	Introduction to the architectural analysis of ancient architectures and cities in their cultural and physical contexts.

Content	Development of monumental and minor architecture from prehistory to Late Antiquity in the Mediterranean Sea, Far East and Near East.
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Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1) Ability to analyze historical-cultural aspects behind every architecture.	1,2,3,4,8,9,10, 12, 13, 14, 25	1,2,3	A
2) Ability to analyze architectural types and urban spaces	1,2,3,4,8,9,10, 12, 13, 14, 25	1,2,3	A
3) Ability to sketch architectural elements of studied buildings.	1,2,3,4,8,9,10, 12, 13, 14, 25	1,2,3	A
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction to the history of architecture	
2	Prehistory in Europe and Anatolia	
3	Mesopotamian Civilization-the rise of cities	
4	Ancient Egypt	
5	The Bronze Age in the Aegean Sea and Asia Minor	
6	Polis and Acropolis	
7	The Greek Temple, The Hellenism: beyond the dualism Greeks-Barbarians	
8	MID TERM EXAM	
9	Pompeii and Rome <i>Caput Mundi</i>	

10	Imperial Rome	
11	Constantinople: History and monuments	
12	Byzantine Architecture; Historical background.	
13	MAKE-UP EXAM, Hagia Sophia and S. Sergius and Bacchus	
14	Review of all the subjects discussed	

RECOMMENDED SOURCES		
Textbook	-Kostof, Spiro. <i>A History of Architecture : Settings and Rituals</i> . New York: Oxford University Press, 1995.	
Additional Resources	<p>- Akdeniz, M.G., <i>Tarih Öncesi ve İlkçağ Mimarlığı</i>, İstanbul: İdeal Kültür, 2016.</p> <p>-Bridge, N., <i>Mimarlık 101</i>. İstanbul: Say, 2017.</p> <p>-Borden, D. ve Elzanowski, J. ve diğ., <i>Mimarlık</i>. İstanbul: NTV, 2009.</p> <p>-Cragoe, C.D., <i>Binalar Nasıl Okunur?</i> İstanbul: YEM, 2011.</p> <p>-Jones, D., <i>Architecture: The Whole Story</i>. London: Thames & Hudson, 2014.</p> <p>-Hasol, D., <i>Ansiklopedik Mimarlık Sözlüğü</i>. İstanbul: YEM, 1998.</p> <p>-Lefas, P., <i>Architecture a Historical Perspective</i>. Berlin: Jovis, 2014.</p> <p>-Martin, R., <i>Greek Architecture</i>. Milan: Electa Architecture, 2003.</p> <p>-Melvin, J., <i>...izimler, Mimarlığı Anlamak</i>. İstanbul: YEM, 2007.</p> <p>-Mutlu, B., <i>Mimarlık Tarihi Ders Notları</i>. İstanbul: Mimarlık Vakfı, 2016.</p> <p>-Müller, W., Vogel, G., <i>Mimarlık Atlası I</i>. İstanbul: YEM, 2012.</p> <p>-Norberg-Schulz, C., <i>Architecture: Meaning and Place</i>. New York: Rizzoli International Publications, 1988.</p> <p>-Özer, B., <i>Kültür, Sanat, Mimarlık</i>. İstanbul: YEM, 2000.</p> <p>-Pile, J., <i>A History of Interior Design</i>. London: Laurence King Publishing, 2009.</p> <p>-Roth, Leland M., <i>Mimarlığın Öyküsü</i>, İstanbul: Kabalcı Yayınevi, 2000.</p> <p>-Ward-Perkins, J. B., <i>Roman Architecture</i>, Milan: Electa Architecture, 2004.</p>	

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ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	50,00%
Homework		
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)	1	50,00%
Contribution of Final Examination to Overall Grade		50,00%
Contribution of In-term Studies to Overall Grade		50,00%
Total		100,00%
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (15 weeks x total work hours)	15	2	30
Workload outside the classroom (research and reviews)	15	2	30

Quiz			
Homework			
Presentation/Seminars			
Midterm	1	2	2
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	2	2
Total work load			64
Total work load / 25			2,56
ECTS of the course			3

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills				X	
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards			X		
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.		X			
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes		X			
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design,					

	architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					X
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					X
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.			X		
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects			X		
13	Human behaviors: Understanding the interaction between physical environment and humans			X		
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures			X		
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					

20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.			X		
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					

35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					
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COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
History of Architecture II	FA 208	3	2+0+0	2	3

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	Assist. Prof. Gözde ÇELİK
Instructors	Assist. Prof. Gözde ÇELİK
Assistants	
Goals	Provide a basic critical understanding of major developments in architecture.
Content	The course surveys the examples from the middle age, pre-colonial world architecture until the Enlightenment Period.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
Provide a basic critical understanding of major developments in architecture	2,5,8,9,10,11,12,14,19,25,	1, 2, 3, 7	A

To get an ability of criticizing the contemporary and future architectural works	5,8,9,10,11,12,14,19,25	1, 2, 3, 7	A
Get to understand Historical buildings	8,9,10,11, 19, 25	1, 2, 3, 7	A
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction to the course; Concept of History	
2	Romanesque Architecture; Historical background, basic architectural principles, monasteries, church plan types	
3	Gothic Architecture; Historical background, basic architectural principles, examples of Gothic churches and other buildings	
4	Indian Architecture; Architecture in Indian subcontinent before Mongolian Kingdoms Meso-America Architecture; Mayas, Aztecs, Incas before Columbus	
5	Far-east Architecture; Chinese and Japanese architecture before Colonialism	
6	Islamic Architecture; Historical background, basic architectural principles, Umayyad, Abbasids	
7	Anatolian Turkish Architecture: The Seljuk's Historical background, basic architectural principles, Seljuk cities, mosques, tombs, madrasas, caravanserais	
8	MID TERM EXAM	
9	Ottoman Architecture; Historical background, basic architectural principles, early Ottoman architecture	

10	Ottoman Architecture; Classical Ottoman Architecture, Master Architect Sinan	
11	Renaissance Architecture; Historical background, basic architectural principles, Early Renaissance	
12	Renaissance Architecture; High and Late Renaissance in Italy, Mannerism	
13	MAKE-UP EXAM Baroque Architecture; Historical background, basic architectural principles, building examples	
14	Baroque Architecture; Baroque palaces, parks, Rococo architecture in France and Germanic countries	

RECOMMENDED SOURCES	
Textbook	---
Additional Resources	<ul style="list-style-type: none"> . Fletcher, S. B., A History of Architecture on the Comparative Method, Athlone Press, London, 1989. . Giedion, S., Space, Time and Architecture, Harvard University Press, Cambridge, 1963. . Gombrich, E. H., The Story of Art, Phaidon Press, London, 2003. . Jones, D., Architecture: The Whole Story, Thames&Hudson, 2014. . Kostof, S., A History of Architecture: Settings and Rituals, Oxford University Press, New York, 1995. . Kuban, D., Çağlar Boyunca Türkiye Sanatının Anahatları, YKY, 2012. . Kuban, D., Selçuklu Çağında Anadolu Sanatı, YKY, 2002. . Lefas, P., Architecture a Historical Perspective, Jovis, Berlin, 2014. . Mutlu, B., Mimarlık Tarihi Ders Notları, Mengitan Matbaacılık, İstanbul, 1996. . Nuttgens, P. J., The Story of Architecture, Phaidon Press, London, 1997. . Norberg-Schulz, C., Architecture: Meaning and Place, Rizzoli International Publications, New York, 1988. . Ögel, S., Anadolu'nun Selçuklu Çehresi, Akbank, 1994. . Roth, L.M., Mimarlığın Öyküsü, Kalcı, İstanbul, 2014.

MATERIAL SHARING	
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ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	50
Homework		
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)	1	50
Contribution of Final Examination to Overall Grade		50
Contribution of In-term Studies to Overall Grade		50
Total	100	100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	15	2	30
Workload outside the classroom (research and reviews)	15	2	30
Quiz			-
Homework			-
Presentation/Seminars			

Midterm	1	2	2
Project			-
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	2	2
Total work load			64
Total work load / 25			2,56
ECTS of the course			3

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards				x	
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.		x			
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes		x			
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design			x		
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					

7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					X
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					X
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					X
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.				X	
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects			X		
13	Human behaviors: Understanding the interaction between physical environment and humans			X		
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					X
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems			X		
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					

22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.			x		
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
History of Architecture III	FA 307	4	2+0+0	2	3

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	Assist. Prof. Gözde ÇELİK
Instructors	Assist. Prof. Gözde ÇELİK
Assistants	-
Goals	Provide a basic critical understanding of major developments in modern architecture from the Enlightenment Period until today.
Content	The course covers the developments in history of architecture from the Enlightenment Period until today in chronological order, with the help of supplementary written and visual documents.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
Provide a basic critical understanding of major developments in architecture	2,5,8,9,10,11, 14,19,25	1, 2, 3, 7	A
To get an ability of criticizing the contemporary and future architectural works	2,5, 8,9,10,11, 14,19,25	1, 2, 3, 7	A
Get to understand Historical buildings	8,9,10,11, 14,19,25	1, 2, 3, 7	A

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction	
2	Architecture During the Age of Enlightenment; Neo-classic examples	
3	Industrial Revolution; Historicism: Revivalism, Eclecticism	
4	Revivalist Architecture; Neo-Classic examples, Neo-Greek, Neo-Roman, Neo-Renaissance	
5	Late Ottoman Architecture; Tulip period, westernization and Tanzimat period	
6	Arts & Crafts and Art Nouveau Architecture; Historical background, basic architectural principles,	
7	Chicago School, The Early twentieth century: Expressionism, Constructivist Architecture, ArtDeco	
8	MID TERM EXAM	
9	Birth of Modernism, Rationalism, De Stijl, Bauhaus, Expressionism	
10	F.L.Wright	
11	Le Corbusier and Purism, International Style	
12	Mies van der Rohe	
13	MAKE UP EXAM Brutalism, Post Modern Architecture	
14	High-Tech Architecture, Deconstructivism	

RECOMMENDED SOURCES	
Textbook	--
Additional Resources	<p>-Fletcher, S. B., A History of Architecture on the Comparative Method, Athlone Press, London, 1989.</p> <p>-Giedion, S., Space, Time and Architecture, Harvard University Press, Cambridge, 1963.</p> <p>-Gombrich, E. H., The Story of Art, Phaidon Press, London, 2003.</p> <p>-Jones, D., Architecture: The Whole Story, Thames&Hudson, 2014.</p> <p>-Kostof, S., A History of Architecture: Settings and Rituals, Oxford University Press, New York, 1995.</p> <p>-Lefas, P., Architecture a Historical Perspective, Jovis, Berlin, 2014.</p> <p>-Mutlu, B., Mimarlık Tarihi Ders Notları, Mengitan Matbaacılık, İstanbul, 1996.</p> <p>-Nuttgens, P. J., The Story of Architecture, Phaidon Press, London, 1997.</p> <p>-Norberg-Schulz, C., Architecture: Meaning and Place, Rizzoli International Publications, New York, 1988.</p> <p>-Roth, L.M., Mimarlığın Öyküsü, Kabalcı, İstanbul, 2014.</p>

MATERIAL SHARING	
Documents	
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	50
Homework		

Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)	1	50
Contribution of Final Examination to Overall Grade		50
Contribution of In-term Studies to Overall Grade		50
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (15 weeks x total work hours)	15	2	30
Workload outside the classroom (research and reviews)	15	2	30
Quiz			-
Homework			-
Presentation/Seminars			
Midterm	1	2	2
Project			-
Laboratory			-
Field survey			
Others			
Final exam (Final Project)	1	2	2
Total work load			64

Total work load / 25			2,56
ECTS of the course			3

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards				x	
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design			x		
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					x
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.			x		
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					x

11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.				x	
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					x
13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures				x	
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems			x		
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of			x		

	production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
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32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Architectural Presentation Skills	ARCH 138	2	1+2+0	2	4

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	
Assistants	
Goals	The course aims to give the student an understanding of how diagrams, drawings, models are used as tools of representation of an architectural idea/project, as an integral part of the process of designing and understanding architecture.
Content	The course is based on four assignments, each focusing on a different mode of architecture representation: diagram/concept and conceptual model, orthographic projection, axonometric projection, final layout. An introductory lecture for each mode provides an exploration into the architectural contemporary practice.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. Student acquires the ability to develop critical thinking and evaluate different modes of architecture representation.	2,4	1,2,3,4	A,C
2. Student acquires the ability to reach and assess relevant information about contemporary architectural researches/projects.	2,3,4,12	1,2,3,4	A,C
3. Student develops skills in representation on contemporary architectural projects.	2,3,4,6	1,2,3,4	A,C
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion		

Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E: Internship
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COURSE CONTENT		
Week	Topics	Preparation
1	Introduction - “The Architecture I like” Workshop	
2	1 st Assignment Lecture: diagram/concept and conceptual model	
3	In-class workshop	
4	In-class workshop	
5	Submission 1 st Assignment 2 nd Assignment Lecture: orthographic projection	
6	In-class workshop	
7	In-class workshop	
8	Submission 2 nd Assignment 3 rd Assignment Lecture: axonometric projection	
9	In-class workshop	
10	In-class workshop	
11	Submission 3 rd Assignment 4 th Assignment Lecture: layout	
12	In-class workshop	
13	In-class workshop	
14	Submission 4th Assignment	

RECOMMENDED SOURCES	
Textbook	VVAA, <i>Program Diagrams</i> , Damdi, Seoul, 2011. Mi-Young, P., <i>Architectural Model. Lead to Design</i> , Damdi, Seoul, 2010.

	VVAA, <i>Conceptual Diagrams</i> , Damdi, Seoul, 2011.
Additional Resources	Architectural Magazines: Domus, Casabella, Volume, Abitare, El croquis

MATERIAL SHARING	
Documents	Contact the course instructor for lecture handouts
Assignments	4
Exams	4 Midterm Evaluations

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	4	100%
Homework		
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)		
Contribution of Final Examination to Overall Grade		
Contribution of In-term Studies to Overall Grade		
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)

Course Duration (14 weeks x total work hours)	14	3	42
Workload outside the classroom (research and reviews)	4	4	16
Quiz			
Homework			
Presentation/Seminars	4	10	40
Midterm			
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)			
Total work load			98
Total work load / 25			3,92
ECTS of the course			4

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards				x	
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.				x	
4	Research skills: Ability to obtain relevant information, assessment,			x		

	recording and apply during the architectural processes					
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout			x		
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects			x		
13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					

19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
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33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety					

	and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
Construction II	ARCH 213	3	2+2+0	3	6

Prerequisites	-
Language of Instruction	Turkish-English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	Lec. Sadrettin Soylu; Lec. Esra Karahan; Lec. Pınar Çalışır
Assistants	
Goals	Obtaining the required knowledge for transition between concept and construction within the frame of a simple reinforced concrete structure
Content	Detailed planning of a reinforced concrete structure, assisted by lectures on structural concepts and details of relevant examples.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
Command on design, performance and architectural integration aspects of reinforced structural systems.	3,4, 22, 25	1,3,5,7	A,C,D
Ability to design and visualize a structural system with integrated structural elements	3,4, 22, 25	1,2,5	A,C,D

Ability to produce detail drawings of integral elements of a building (e.g. walls, posts, beams, roof)	3,4, 22, 25	1,2,3,5	A,C,D
Capability of designing a simple reinforced structure from concept to detail level	3,4, 22, 25	1,2,3,4,5,6,7	A,D
Ability to integrate the structural system within the building system	3,4, 22, 25	1,2,4,5,7	A,C,D
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	INTRODUCTION to Architectural Structures, concept, definitions, pioneer projects, Introduction to Concrete Structures	-
2	-LOADS on Structures (vertical, lateral) -Structural FORCES, Structural Equilibrium -BEARING ELEMENTS (bearing walls, columns, foundations): concept, principles, materials, design, examples -Concrete as a building material	Collecting visual examples of structural stability
3	-Reinforced Concrete Structures: concept, principles, materials, design, examples, studio session	Basic research on reinforced concrete structures
4	-Reinforced Concrete Structures: Foundation Design, studio session	Completing the studio homework
5	-Reinforced Concrete Structures: Slab design, studio session	Completing the studio homework
6	Mid-term Exam	general
7	-Reinforced Concrete Structures: Hollow Slab design, studio session	Completing the studio homework, Work on term project

8	-Reinforced Concrete Structures: Staircase design, studio session	Completing the studio homework, Work on term project
9	-Reinforced Concrete Structures: Staircase design & Detailing, studio session	Completing the studio homework, Work on term project
10	-Reinforced Concrete Structures: Roof Structure Design, studio session	Completing the studio homework, Work on term project
11	-Reinforced Concrete Structures: Roof Structure Design, studio session	Completing the studio homework, Work on term project
12	Mid-term Exam	general
13	-Reinforced Concrete Structures: System Details, studio session	Completing the studio homework, Work on term project
14	-Reinforced Concrete Structures: System Details, studio session	Completing the studio homework, Work on term project
15		

RECOMMENDED SOURCES

Textbook	<ul style="list-style-type: none"> Deplazes A.(ed.), Constructing Architecture-Materials, Processes, Structures, Birkhäuser,Basel,
Additional Resources	<ul style="list-style-type: none"> MacDonald A J., Structure and Architecture, Architectural Press, 2001 2005 N., Ching F., Building Construction Illustrated, John Wiley&Sons, 2008 Türkçü Ç., Yapım: İlkeler, Malzemeler, Yöntemler, Çözümler, Birsen YE, 2010 Yücesoy L., Temeller, Duvarlar, Döşemeler, YEM, 2004

MATERIAL SHARING

Documents	Contact the course coordinator for lecture hand-outs and documentary videos
Assignments	Weekly studio assignments
Exams	2 Midterm exams and 1 Final Assignment

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	30
Homework	6	20
Project (Assignment)	1	40
Laboratory		
Field survey		
Seminars/presentations		
Other	1	10
Final Exam (Final Project)		
Contribution of Final Examination to Overall Grade		60
Contribution of In-term Studies to Overall Grade		40
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	12	4	48
Workload outside the classroom (research and reviews)	14	4	48
Quiz			
Homework			
Presentation/Seminars			
Midterm	2	4	8

Project	1	22	22
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	4	4
Total work load			138
Total work load / 25			5,52
ECTS of the course			6

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.			x		
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes				x	
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in					

	conjunction with other environments					
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11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
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15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					x
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design				x	

	systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					X
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
Construction Project	ARCH 214	4	2+2+0	3	6

Prerequisites	-
Language of Instruction	English
Course Level	Undergraduate
Course Type	
Course Coordinator	
Instructors	Şükriye Gülçin Soyak; gulcinsoyak@gmail.com
Assistants	
Goals	Students learn and practice to design detailed construction documents of a building. Architects often face numerous different detailing tasks during the design process. The key takeaways from this course are the main principles of detail production and improving skills of problem solving.
Content	Construction documents of the project include; 1/50 plans and sections, 1/20 system details, staircase details, 1/5-1/2 details from specific parts of the building. The projects are drawn and discussed during the class.

COURSE CONTENT		
Week	Topics	Preparation and Drawings
1	Preliminary lecture on the course.	
2	Design specifications for RC structures.	
3	Detailing foundations, basement floor and waterproofing	Foundation section with drainage 1/5
4	Pad, strip or raft foundation	Foundation plan and sections

		for with or without basement floor
5	Reinforced Concrete Floors (floors with beams, ribs, or waffle floors)	Formwork plan and sections for floor with beams
6	Floor structures and ground/upper level floor construction	Formwork plan and sections for ribbed floor
7	Staircases - Term project 1st draft submission	
8	Staircases structural approach	Staircase plans (Term project evaluation)
9	Staircases, balustrades, finishings	Staircase sections and details
10	Roof structures: type and choice of roof structures	Roof plan
11	Roof structures	Roof sections
12	Detailing Roofs	Roof details
13	Heat insulation details on walls and roofs - Term project 1st draft submission	
14	Wall openings, windows and doors	1/20 and 1/2 plans, sections
15	Bathroom plans and sections (shop drawings), Detailing specific parts of the building	1/20 plan, sections

RECOMMENDED SOURCES	
Textbook	Yapım, Çetin Türkçü; Yapı, Sedat Hakkı Eldem,
Additional Resources	Fundamentals of Building Construction, Edward Allen, Up 1948-2008 Uygulama Projesi Atölyesi Kayıt Defteri, Orhan Şahinler, Handouts and pps documents by the lecturer

MATERIAL SHARING	
Documents	
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms		
Homework		%20
Project (Assignment)	2	%40
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)		
Contribution of Final Examination to Overall Grade		%40
Contribution of In-term Studies to Overall Grade		%60
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	15	4	60
Workload outside the classroom (research and reviews)	15	3	45
Quiz			
Homework			
Presentation/Seminars			
Midterm	2	10	20
Project	1	22	22
Laboratory			

Field survey			
Others			
Final exam (Final Project)			
Total work load			147
Total work load / 25			5,88
ECTS of the course			6

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					

9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					

24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
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30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
Architectural Design I	ARCH 253	3	4+4+0	6	10

Prerequisites	FA 106
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	Inst. Mehmet Umut Deniz; mehmet.deniz@yeditepe.edu.tr
Assistants	
Goals	Students will study architectural research, site planning and topographical issues, issues regarding climate, how to present an architectural presentation using manual techniques, usage of architectural scales, human proportions, vehicular access, basic architectural programming, proper model making techniques, use of building materials, architectural elements and typical structural and mechanic services.
Content	Design of a house in various locations of Turkey. 1/200 Environmental Design, 1/100 Building Design (plans, 2 sections, and 4 elevations), 1/50 (plans, sections and elevations), 1/500 Site Model, 1/100 Model

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1)Ability to develop research skills in accordance with the architectural design	4,6,13,14,18	3,5	A, C
2)Ability to use architectural design skills	4,6,13,14,18	5	B, C
3)Ability to find, to analyze and to synthesize precedents	4,6,13,14,18	1,2,3	B, C
4)Ability to understand the effect of human behaviors	4,6,13,14,18	5	C

5)Site Conditions	4,6,13,14,18	5,6	B,C
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction to the course	Research assignments to students
2	How houses are organized, designed Film screenings. Introduction to Site planning, functional requirements of the house	Student case study presentations. 1:200 site plan and 1:100 sketch study assignments.
3	One on one critiques on each 1:100 projects	Students will be encouraged to prepare not only plans but also sections
4	One on one critiques on each 1:100 projects	Physical model making will be demanded.
5	One on one critiques on each 1:100 projects	
6	Midterm Jury	1:100 project plan, elevation, section, axonometric and model 1:200 site plan with shadows
7	Expanding the scale to 1:50. Materials and construction issues to be addressed	How to professionally use ink, pencil and markers.
8	1:50 projects, one one one crit.	3D hand drawing techniques and perspectives revisited
9	1:50 projects, one one one crit.	Structural requirements and dwg techniques.
10	1:50 projects, one one one crit.	Stone as material of Aegean Architecture.
11	1:50 projects, one one one crit.	Mechanical and electrical requirements of a house.
12	Presentation critiques, Ways to	Presentation techniques on how to use

	enhance product presentation. How to make a design readable and understandable.	color.
13	FINAL EXHIBITION & CLOSING JURY	1:100 and-or 1:200 Site plan 1:50 Plans-section-colored and shaded elevations 1:100 axonometric with environment, Perspective and final model with sturdy base. NO COMPUTER.
14	Week 15 reserved for contingency, holidays, maybe 2 nd jury-disasters etc.	Research assignments to students
15	Introduction to the course	

RECOMMENDED SOURCES

Textbook	
Additional Resources	<ul style="list-style-type: none"> . Cengiz Bektaş. Türk evi . Nail Çakırhan projeleri . Great Buildings Online-http://greatbuildings.com/gbc/buildings.html . Building Construction Illustrated. F.D.K Ching . Neufert-Ernst Neufert . American Graphic Standards. Wiley&sons . Graphic thinking for designers. P.Lasseau . Projeler/Yapılar 1: Konutlar, YEM Yayın, 2010. . Anderson, J., 2011; Mimari Tasarım, Mimarlık Temelleri Dizisi, , Literatür Yayınları. . Anderson, J., 2011; Sunum Teknikleri, Mimarlık Temelleri Dizisi, Literatür Yayınları, 2011. . Ganshirt, C., 2007; Tools for Ideas: Introduction to Architectural Design, Birkhaeuser Verlag AG, Basel,

MATERIAL SHARING

Documents	Books and Periodicals
Assignments	6
Exams	2+1

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	60
Homework	6	40
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)	1	40
Contribution of Final Examination to Overall Grade		40
Contribution of In-term Studies to Overall Grade		60
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	8	112
Workload outside the classroom (research and reviews)	14	6	84
Quiz			
Homework	14	3	42
Presentation/Seminars	1	10	10
Midterm	2	10	20
Project			
Laboratory			

Field survey	1	10	10
Others			
Final exam (Final Project)	1	10	10
Total work load			288
Total work load / 25			11,52
ECTS of the course			12

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes				x	
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					x
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					

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11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects				x	
13	Human behaviors: Understanding the interaction between physical environment and humans				x	
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site				x	
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
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34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION

Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Architectural Design II	ARCH 254	4	4+4+0	6	12

Prerequisites	ARCH 253
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	
Assistants	
Goals	It is aimed to make the students have ability design at the project which is at more progressive function and scale supporting by construction and structural courses they succeeded in after Project I.
Content	Generally, designing's of the Project concerning large spaces like cultural house and passenger scaffold building on a site are addressed. This course includes layout plan (in 1/200 scale), plans, sections, views and the model with site (in 1/100 Scale). At the same time natural and cultural analyzes of the site with its environment are expected from students.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. To analyze and 'read' an urban context and design accordingly a building and open spaces	2,3,6	1,2,3,4,5,7	B,C
2. To use concept/diagrams to express the main idea of the project.	2,3,6	1,3,4,5	B,C
3. To use the hand model as a tool to design.	2,3,6	1,3,4,5	B,C
4. To apply the basic architectural principles to a building and open space.	2,3,6	1,3,5	B,C
5. To present a project according to an appropriate layout.	2,3,6	1,3,5	B,C

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction	
2	Survey of the project area. Seminar: Diagram and Model.	
3	Seminar: A methodological approach. First diagrams/models.	
4	workshop	
5	Seminar: Art and culture centers. workshop	
6	Preparation of the midterm jury	
7	MID TERM 1	
8	workshop	
9	workshop	
10	workshop	
11	workshop	
12	MID TERM 1	
13	workshop	
14	Pre-exam review	

RECOMMENDED SOURCES

Textbook	-
Additional Resources	<ul style="list-style-type: none"> “Haliç’te Seyrüsefer”, Ali AKYILDIZ, İş Bankası Kültür Yayınları, ISBN:9789944881166 “Kıyı Yapıları ve Limanlar”, (Planlama ve Tasarım Teknik Esasları) DİTİ, TC. Ulaştırma Bakanlığı Demiryolları, Limanlar, Hava Meydanları İnşaat Genel Müdürlüğü

MATERIAL SHARING	
Documents	-
Assignments	-
Exams	-

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	30
Homework		
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		30
Final Exam (Final Project)	1	40
Contribution of Final Examination to Overall Grade		40
Contribution of In-term Studies to Overall Grade		60
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD

	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	8	112
Workload outside the classroom (research and reviews)	14	8	112
Quiz	-	-	-
Homework	-	-	-
Presentation/Seminars	4	3	12
Midterm	2	8	16
Project	-	-	-
Laboratory	-	-	-
Field survey	2	8	16
Others	6	3	18
Final exam (Final Project)	1	8	8
Total work load			294
Total work load / 25			11,76
ECTS of the course			12

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards			X		
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-				X	

	drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout			X		
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
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17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and					

	related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
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35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Building Statics	ARCH 261	3	3+0+0	3	5

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	Cem Kum
Assistants	
Goals	The objective of the course is to provide fundamental theoretical and practical knowledge on loads, forces, and the Newtonian laws of motion which influence the behavior of structures under the said loads and forces; and thus provide a strong infrastructure for future structural analysis and design courses.
Content	Classification of loads, and forces; laws of motion; types of supports; free body diagrams; shear and moment diagrams; truss analysis techniques; centroids; moments of inertia and parallel axes theorem; introduction to mechanics of materials.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
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1. Ability to understand the philosophy of the analysis and design real life structural components such as trusses, beams, frames, and simple machines	1,2,3,4,12,19,22,25	1, 2, 3	A, C, D
2. Understanding the concept of static equilibrium and the usage of necessary tools for analysis and design of non-deformable systems	2,4,12,19,22	1, 2, 3	A, C, D
3. Ability to choose suitable materials in accordance with the type of the structure	2,3,4,12,19,25	1, 2, 3	A, C, D
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Orientation, fundamental definitions, vector & scalar quantities, types of forces	
2	Types of loads & supports, unit systems, Newton's Laws	
3	Graphical, trigonometric, and static analysis & resolution of force systems	
4	Analysis of determinate and indeterminate structures	
5	Shear & moment diagrams, deflection curves	
6	Shear & moment diagrams, deflection curves cont'd	
7	Truss analysis by method of joints	
8	Truss analysis by method of sections	
9	Mid-term test 1	
10	Theory & application of distributed forces – First moment of area	
11	Theory & application of distributed forces – Second moment of area	
12	Theory & application of distributed forces – Parallel Axes Theorem	
13	Strength of Materials - Elastic & plastic deformation, Young's Modulus	

14	Strength of Materials –Stress & strain, Hooke’s Law	
15	Mid-term test 2	

RECOMMENDED SOURCES		
Textbook		
Additional Resources	<ul style="list-style-type: none"> · VECTOR MECHANICS FOR ENGINEERS – STATICS, 7th edition · Ferdinand P. BEER, E. Russell JOHNSTON Jr., Elliot R. EISENBERG, McGraw Hill Corp. · INTRODUCTION TO STRUCTURAL MECHANICS · P. ANDERSEN, G. M. NORDBY, Ronald Press · ENGINEERING MECHANICS · S. P. TIMOSHENKO, D. H. YOUNG, McGraw Hill Corp. · THEORY OF STRUCTURES · S. P. TIMOSHENKO, D. H. YOUNG, McGraw Hill Corp. · INTRODUCTION TO STRESS ANALYSIS 	

MATERIAL SHARING	
Documents	
Assignments	
Exams	Midterm and Final exam

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	
Homework		
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		

Other		
Final Exam (Final Project)	1	
Contribution of Final Examination to Overall Grade		
Contribution of In-term Studies to Overall Grade		
Total		
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	3	42
Workload outside the classroom (research and reviews)	13	1	13
Quiz			
Homework	1		15
Presentation/Seminars			
Midterm	1		15
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1		30
Total work load			107
Total work load / 25			4,6
ECTS of the course			5

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills		x			
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					x
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.				x	
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes				x	
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects			x		

13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					x
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells				x	
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.		x			
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					

28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Mechanical & Electrical Building Services	ARCH 265	4	2+0+0	2	4

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)

Course Type	Compulsory
Course Coordinator	
Instructors	Inst. Cengiz Gökçe
Assistants	
Goals	To introduce mechanical and electrical systems for buildings in general.
Content	<ul style="list-style-type: none"> Water, Clean and Dirty Water Systems for Buildings, Boilers, HVAC. Grounding, Fuses, Electrical Switches, Circuit-Breakers, Electrical Motors. Importance of Lighting, Lighting Equipments, Lighting Control

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. Mechanical, electrical and lighting principles are given to the students to improve their ability to create functioning architectural projects.	22,24	1,2,3,5	A
2. Student, learns about the main elements of a building such as transformers, boiler houses, HVAC, lighting systems.	22, 24	1,2,3,5	A
3. Student, gains the ability to lead an all-round building project with the information given in the course.	22, 24	1,2,3,5	A
4. Student, gains the knowledge of designing properly priced standardized mechanical, electrical and lighting projects.	22, 24	1,2,3,5	A
5. Student, learns the use of standardized mechanical and electrical machines, tools and equipment as an instrument for increasing spatial quality.	22, 24	1,2,3,5	A
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation

1	Properties of water, water resources, water purification	
2	Clean water systems for buildings, production methods of electricity, electrical magnitudes	
3	Hot water systems for buildings, boiler and boiler types, electrical switches, non-conductors	
4	Boiler house and boiler house design criteria, lighting, parameters for good lighting	
5	Solar and geothermal energy, lamp types	
6	Midterm I	
7	Dirty water systems for buildings, water purification systems, grounding, electrical powers	
8	Pumps, compressors, lamp types, lighting control	
9	Main principles of electrical, lighting and mechanical projects	
10	Project studies	
11	Midterm II	
12	Ventilation for buildings, power factor, electrical motor and generators, drainage systems for buildings	
13	HVAC for buildings, types, choosing criteria and positioning principles, elevators	
14	HVAC, emergency lighting, ups	

RECOMMENDED SOURCES

Textbook	Building Mechanical Systems; Sanitation; TSE, ASHARE; Course Notes
Additional Resources	<ul style="list-style-type: none"> Electrical Handbook; Electrical Engineering; Elektrotechnik; Aydınlatmanın Esasları; Public Lighting; Lighting Management; Essential Lighting; TSE and International Norms Course Notes

MATERIAL SHARING

Documents	
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	35
Homework		
Project (Assignment)	1	15
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)	1	50
Contribution of Final Examination to Overall Grade		50
Contribution of In-term Studies to Overall Grade		50
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	4	56
Workload outside the classroom (research and reviews)	12	2	24
Quiz			
Homework	3	8	24

Presentation/Seminars			
Midterm			
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	4	4
Total work load			108
Total work load / 25			4,32
ECTS of the course			4

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building,					

	interiors and layout					
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with					5

	an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					5
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
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30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
CAD for Architecture	ARCH 273	3	1+0+2	2	4

Prerequisites	-
Language of Instruction	Turkish and English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	
Assistants	
Goals	2D and 3D building modelling on computer with Revit Architecture
Content	Using special architectural CAD application software in architectural presentations and projects

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. To draw an architectural project in 2D	3,5,6,27	1, 2, 5	A, C, D
2. To draw an architectural project in 3D	3,5,6,27	1, 2, 5	A, C, D
3. To draw the pre-calculated load-bearing system project of an architectural project	3,5,6,27	1, 2, 5	A, C, D
4. To model any site with surveyed topography in 2D and 3D	3,5,6,27	1, 2, 5	A, C, D
5. To design a project by its mass study	3,5,6,27	1, 2, 5	A, C, D
6. To arrange the landscape of a project and design the site plan	3,5,6,27	1, 2, 5	A, C, D
7. To prepare an architectural project to be applicable according to its standards	3,5,6,27	1, 2, 5	A, C, D

8. To prepare a photo-realistic presentation of a project	3,5,6,27	1, 2, 5	A, C, D
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	About the basics of special architecture applications, and an introduction to Revit Architecture and user interface	
2	Basic drawing and editing commands	Drawing and editing in 2D
3	Building design grids and walls	Drawing grids and walls
4	Doors, windows and openings	Drawing doors, windows and openings
5	Floor slabs and ceilings	Drawing floor slabs and ceilings
6	Roof and its components	Drawing roofs and roof components
7	Stairs basics	Drawing staircases
8	Stairs, ramps and railings	Drawing stair components, ramps and railings
9	Structural elements	Drawing structural elements
10	Site design and building components	Drawing a site and building components
11	MIDTERM	
12	Dimensioning, text elements and layouts	Project layout with all elements
13	Mass modelling	Mass modelling for design
14	Presentation techniques	Presenting a Project and rendering
15		

RECOMMENDED SOURCES

Textbook	-
Additional Resources	<ul style="list-style-type: none"> . Baykal, G., 2008, Revit Architecture 2009, Pusula Yayıncılık, İstanbul. . Baykal, G., 2012, Revit Architecture 2013, Pusula Yayıncılık, İstanbul. . Aubin, P; Learning, T, D, 2010, Mastering Autodesk Revit Building,

MATERIAL SHARING	
Documents	
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	30
Homework	1	10
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)		60
Contribution of Final Examination to Overall Grade		60
Contribution of In-term Studies to Overall Grade		40
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD

			(HOURS)
Course Duration (14 weeks x total work hours)	14	4	56
Workload outside the classroom (research and reviews)			
Quiz			
Homework	2	15	30
Presentation/Seminars			
Midterm	1	2	2
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	2	2
Total work load			90
Total work load / 25			3.5
ECTS of the course			4

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					x

4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design				x	
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout				x	
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
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16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					

18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
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21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
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23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					x
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
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33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					

34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
Building Physics	ARCH 310	6	2+0+0	2	5

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	Prof.Dr. Leyla Dokuzer Öztürk, Prof. Dr. Neşe Yüğrük Akdağ, Prof. Dr. Gülay Zorer Gedik
Assistants	
Goals	Introduction the building physics elements; the relationship between these elements and architectural design for achieving optimal solutions in terms of building physics.
Content	Physical environment concept, building physic elements; light, heat and sound. Architectural lighting design principles, daylighting, efficient use of energy, general knowledge about heat, humidity and condensation, solar and wind control in buildings, noise control in buildings, room acoustics.

Learning Outcomes	Program Learning	Teaching	Assessment
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	Outcomes	Methods	Methods
1. Building physics criteria and requirements related to comfort, health, and energy efficiency.	4, 13, 16, 18, 20, 22, 25, 34	1, 2, 3	A, D
2. Assessment of buildings in terms of building physics.	4, 13, 16, 18, 20, 22, 25, 34	1, 2, 3	A, D
3. Ability to improve the comfort conditions in buildings in terms of building physics.	4, 13, 16, 18, 20, 22, 25, 34	1, 2, 3	A, D
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship		

COURSE CONTENT

Week	Topics	Preparation
1	Information about building physics, architectural acoustic, building acoustic-room acoustic, sound and its components, national and international regulations, standards and limit levels according to noise control.	-
2	The propagation of noise in outdoor and indoor environments and its control, the reflection and absorption of sound, fundamental principles of airborne and structure borne noise control in buildings.	Lecture notes
3	Fundamental acoustical design principles in music and speech functioned halls, acoustic criteria and optimum values for halls of varied functions.	Lecture notes
4	Reverberation time, sound level, first reflections, acoustic defects and precautions.	Lecture notes
5	Heat, thermal energy and temperature. Thermal energy transport. Conduction, Convection, Radiation. The Greenhouse Effect. Thermal comfort parameters. Heat and moisture transfer in building envelope.	Lecture notes
6	Condensation; surface condensation, interstitial Condensation, precautions against condensation.	Lecture notes
7	Climatic Building Design; utilization and protection of solar radiation.	Lecture notes
8	Quiz, Midterm 1	Lecture notes

9	Wind around building and natural ventilation.	Lecture notes
10	Light spectrum, reflection, absorption and transmission of light, introduction of materials, examples for reflection and transmission characteristics of chromatic and achromatic surfaces.	Lecture notes
11	Mean illuminance and the related factors, illuminance measurements, lamps and luminaires, efficient energy usage, lighting quality.	Lecture notes
12	Lighting quality, lighting design.	Lecture notes
13	Lighting design, parameters for daylight illuminance, room depth limitation, no-sky line definition, daylight factor, determination of the required window glass area.	Lecture notes
14	Quiz, Midterm 2	Lecture notes

RECOMMENDED SOURCES

Textbook	<ul style="list-style-type: none"> · prEN 17037, Daylight of Buildings, 2016. · CIBSE, Daylighting and Window Design, Lighting Guide LG10: 1999. · EN 12464-1: 2011. Light and lighting - Lighting of work places. Part 1, Indoor Work. February 2010. · IESNA, Lighting Handbook, 10. Edition, 2011. · Harris, D. A., Noise Control Manual for Residential Buildings, McGraw Hill, 1997. · Cavanaugh, W. J., Architectural Acoustics, John Wiley & Sons, 1999. · Karabiber, Z., Yüğrük Akdağ, N., Erdem Aknesil, A., Yalıtım-Isı-Nem-Ses-Su, Makine Mühendisleri Odası Yayınları, İstanbul, 2005. · G. Zorer, Yapılarda Isısal Konfor, YÜ Yayın No: 264, Mimarlık Fakültesi Yayın No: MF-MİM 92.045, YTÜ Mimarlık Fakültesi Baskı İşliği, 26 sayfa, 1992. · Watson&Labs, Climatic Building Design, McGraw-Hill Book Company, 1983. · Givoni B., Man Climate and Architecture, Applied Science, Publishers Ltd., London.
Additional Resources	<ul style="list-style-type: none"> · International Lighting Vocabulary (http://eilv.cie.co.at/) · Aydınlatma Sözlüğü (http://www.yfu.com/aydinlatmasozlugu.aspx) · Dokuzer Öztürk, L., Lecture notes. · Zorer Gedik, G., Lecture notes. · Yüğrük Akdağ, N., Lecture notes.

MATERIAL SHARING

Documents	Lecture notes.
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	%45
Homework	2	%15
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)	1	%40
Contribution of Final Examination to Overall Grade		%100
Contribution of In-term Studies to Overall Grade		%40
Total		%60
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	2	28
Workload outside the classroom (research and reviews)	14	4	56
Quiz	2	3	6
Homework			

Presentation/Seminars			
Midterm	2	2	4
Project			
Laboratory			
Field survey			
Others	14	2	28
Final exam (Final Project)	1	2	2
Total work load			124
Total work load / 25			4,96
ECTS of the course			5

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					5
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building,					

	interiors and layout					
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans					5
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					5
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					5
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					5
21	Life safety: Understanding the basic principles of life safety systems with					

	an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					5
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					5
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					5
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Contemporary World Architecture	ARCH 319	5	2+0+0	2	4

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree
Course Type	Compulsory
Course Coordinator	
Instructors	Assist. Prof. Dr. Moira Valeri
Assistants	
Goals	The course aims to give the student a basic critical understanding of some of the crucial events in the 20th and 21st centuries that have shaped our understanding and approach to architecture.
Content	The course puts emphasis on the discussion on buildings, researches and books of individual architects that have exerted significant influences on the development of architecture, through lectures, short film documentaries, in-class discussions, assigned readings.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1) Student acquires the ability to develop critical thinking and evaluate opposing views.	2,4	1,2,3,4	A,B,C
2) Student acquires the ability to reach and assess relevant information about contemporary architectural researches/projects.	1,2,4	1, 3,4	A,B,C
3) Student, develops skills in communication on contemporary architectural researches/projects.	1,2,4	1, 3,4	A,B,C

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction – “The Architecture I Like”	
2	Documentary	
3	L’Esprit Nouveau	
4	Bauhaus	
5	The International Style	
6	Form vs Content – Italian Architecture in the ‘30s.	
7	Movie	
8	Colin Rowe – Five Architects	
9	Mid-Term	
10	Utopias	
11	(Post)modern, metropolis and media	
12	Uncanny Architecture	
13	Architecture in the dünya çapında media time	
14	Documentary	
15	-	

RECOMMENDED SOURCES	
Textbook	Students are expected to read some assigned readings to be done prior to class and these readings will provide students with some backgrounds for in-class discussion.
Additional	Le Corbusier, <i>Towards an architecture</i> , Paris 1923.

Resources	<p>Gropius, W., <i>The New Architecture and The Bauhaus</i>, 1935.</p> <p>Hitchcock, H.R., Johnson, P., <i>The International Style</i>, NY 1932.</p> <p>Rowe, C., <i>The Mathematics of the ideal Villa and Other Essays</i>, MIT Press 1987.</p> <p>Rossi, A., <i>The Architecture of the City</i>, Milano, 1966.</p> <p>Venturi, R., Izenour, S., Scott-Brown, D., <i>Learning from Las Vegas</i>, MIT Press 1970.</p> <p>Vidler, T., <i>The Architectural Uncanny: Essays in the Modern Unhomely</i>, MIT Press, 1992.</p> <p>Koolhaas, R., Mau, B., <i>SMLXL</i>, 010 Rotterdam, 1995.</p>
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MATERIAL SHARING	
Documents	Contact the course instructor for lecture handouts
Assignments	Homework "The Architecture I Like"
Exams	1 Midterm Evaluation and Final Evaluation

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	40%
Homework		
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other	1	10%
Final Exam (Final Project)	1	50%
Contribution of Final Examination to Overall Grade		100%
Contribution of In-term Studies to Overall Grade		50%
Total		50%

Course Category	Expertise/Field Courses
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ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD(HOURS)
Course Duration (14 weeks x total work hours)	14	2	28
Workload outside the classroom (research and reviews)	14	3	42
Quiz			
Homework	1	10	10
Presentation/Seminars	1	2	2
Midterm	1	2	2
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	2	2
Total work load			86
Total work load / 25			3,44
ECTS of the course			4

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills			x		

2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards				x	
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes			x		
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and					

	understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project					

	management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
Analysis of Historical Buildings	ARCH 321	7	1+2+0	2	6

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	Prof. Ayşe Gülçin Küçükkaya
Assistants	-
Goals	Negotiation and investigation on “conservation” concept with the examination of historical buildings to create the awareness on conservation values and to use analytic recording techniques, investigation conservation problems using contemporary conservation techniques for the restoration of this architectural heritage.
Content	<ul style="list-style-type: none"> • Conservation Ethics • Conservation Terminology, • History of Conservation

	<ul style="list-style-type: none"> • Conservation Techniques • Conservation Charters
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Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. Awareness of professional and ethical responsibility on architectural conservation issues.	4,6,11	1, 2, 3, 4,5,6, 7	A, C
2. Information and awareness about architectural conservation studies in the world	1,2,4	1, 2, 3, 4,5,6, 7	A, C
3. Adequate knowledge in architectural conservation subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to solve architectural conservation problems.	1,2,4	1, 2, 3, 4,5,6, 7	A, C
4. Ability to identify, formulate, and solve complex architectural conservation problems; ability to select and apply proper analytical survey methods for this purpose.	1,2,4,6,11	1, 2, 3, 4,5,6, 7	A, C
5. Ability to record a complex construction to apply modern conservation methods. For this purpose, environmental documentation may include into conservation ethic according to the nature of the current historical settlements.	1,2,4,6,11	1, 2, 3, 4,5,6, 7	A, C
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction	
2	What is Architectural Conservation? & ICCROM	
3	Conservation Terminology	
4	Site work for Analytical Survey	

5	History of Conservation Decision and Ethics	
6	Hand Recording	
7	Mid-term Exam I	
8	Hand Recording	
9	INTERNATIONAL Conservation Organizations	
10	International and Conservation Charters http://www.kvmgm.gov.tr/ana-sayfa/1-35580/20110919.html	
11	Conservation Decisions and Legislation in Turkey http://www.restoraturk.com/restorasyon-incelemeleri-mimari-inceleme/253-turkiyede-koruma-yasalarinin-tarihsel-gelisimi-uzerine-bir-inceleme.html	
12	Causes of Deterioration	
13	Mid-term Exam II	
14	Workshop	

RECOMMENDED SOURCES	
Textbook	. Ahunbay, Z., 1996, Tarihi Çevre Koruma ve Restorasyon, YEM Yayıncılık, İstanbul.
Additional Resources	. Küçükkaya, A. G., 2004, Yapı Taşlarının Tahrip Nedenleri, Bozulma Şekilleri ve Restorasyon Yöntemleri, <i>Birsen Yayınevi, İstanbul</i> , www.ICCROM.org and www.ICOMOS.org , www.unesco.org

MATERIAL SHARING	
Documents	Documentary, movie, presentation
Assignments	Hand recording, seminar, workshop
Exams	Mid-term exam, final exam

ASSESSMENT

IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	%10+%40
Homework	-	-
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations	1	%10
Other		
Final Exam (Final Project)	1	%40
Contribution of Final Examination to Overall Grade		60%
Contribution of In-term Studies to Overall Grade		40%
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	3	42
Workload outside the classroom (research and reviews)	16	3	48
Quiz	1	20	20
Homework	-	-	-
Presentation/Seminars	1	20	20
Midterm	1	2	2
Project	-	-	-
Laboratory	-	-	-

Field survey	2	3	6
Others	-	-	-
Final exam (Final Project)	1	2	2
Total work load			140
Total work load / 25			5,6
ECTS of the course			6

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					x
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					x
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					x
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					x
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					

9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					X
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					

24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
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33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Architectural Surface Modelling Techniques	ARCH 325	5-6-7-8	3+0+0	3	5

Prerequisites	-
Language of Instruction	English
Course Level	Undergraduate
Course Type	Elective
Course Coordinator	
Instructors	
Assistants	
Goals	Modelling of 2D and 3D designs in a computer aided program.
Content	<ul style="list-style-type: none"> •Surface modeling in architectural design •History of NURBS modeling •Understanding surface modeling concept •Introduction to 3D terminology •Comparing Bézier curves, B-splines, and NURBS objects •Creating guides and snaps •Curve degree, curve and surface continuity •Curve and surface analysis •Extruding, lofting, sweeping, projecting curve on surface •Trimming and splitting •Creating a parametric data and parametric structure •Intersect a surface with a solid model •Establishing architectural structure systems with NURBS modeling •An approach industrial model

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
Drawing an architectural project in 2D.	3, 5, 6, 27	1, 2, 5	A, C, D
Modelling an architectural project in 3D.	3, 5, 6, 27	1, 2, 5	A, C, D
Drawing a surveyed site in 2D and modelling the given site in 3D.	3, 5, 6, 27	1, 2, 5	A, C, D

Designing an architectural project starting from its initial proposed form.	3, 5, 6, 27	1, 2, 5	A, C, D
Drawing the site plan of an architectural project.	3, 5, 6, 27	1, 2, 5	A, C, D
Preparing an architectural project according to standards, suitable for future constructions.	3, 5, 6, 27	1, 2, 5	A, C, D
Preparing a photo-realistic presentation of an architectural project.	3, 5, 6, 27	1, 2, 5	A, C, D
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Explanation of surface modeling in architectural design and its historical progress.	
2	Understanding surface modeling concept and its steps.	
3	Explaining the difference between surface modelling and parametric design.	
4	Introduction to 3D terminology and comparing Bézier curves, B-splines, and NURBS objects.	
5	Creating guides and snaps.	
6	Curve degree, curve and surface continuity.	
7	Curve and surface analysis, creating A-Class surfaces.	
8	Extruding, lofting, sweeping, projecting curve on surfaces.	
9	MIDTERM	
10	Introduction to parametric modelling.	
11	Creating a parametric data and parametric structure.	
12	Intersecting a surface with a solid model.	
13	Establishing architectural structure systems with NURBS modeling.	
14	An approach industrial modelling.	

RECOMMENDED SOURCES	
Textbook	-
Additional Resources	-

MATERIAL SHARING	
Documents	-
Assignments	-
Exams	-

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	40
Homework	5	20
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)	1	40
Contribution of Final Examination to Overall Grade		40
Contribution of In-term Studies to Overall Grade		60
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD

			(HOURS)
Course Duration (14 weeks x total work hours)	14	4	56
Workload outside the classroom (research and reviews)	14	3	42
Quiz	2	4	8
Homework	5	2	10
Presentation/Seminars			
Midterm			
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	4	4
Total work load			120
Total work load / 25			4,80
ECTS of the course			5

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					x

4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					x
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout				x	
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the					

	natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					x
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					

34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Advanced Modeling and Animation Techniques	ARCH 327	5-6-7-8	3+0+0	3	5

Prerequisites	-
Language of Instruction	English
Course Level	Undergraduate
Course Type	Elective
Course Coordinator	
Instructors	
Assistants	
Goals	Advanced techniques for 3D modelling and animation of architectural designs.
Content	<ul style="list-style-type: none"> •Overview of modeling technologies •Understanding topology •Preparing storyboard of model and analyzing •Introduction to polygon modeling •Defining High-Res and Low-Res model •Converting patch to polygon model •Approaching organic modeling and re-topology •Loft and terrain •Basic keyframe animation •Controlling curves of animation and graph editor •Path animation and constraints •Dynamic simulation

	<ul style="list-style-type: none"> •Using slate material editor •Environment and HDR settings •Lighting and rendering settings •Compositing and color correction
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Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
Drawing an architectural project in 2D.	3, 5, 6, 27	1, 2, 5	A, C, D
Modelling an architectural project in 3D.	3, 5, 6, 27	1, 2, 5	A, C, D
Drawing a surveyed site in 2D and modelling the given site in 3D.	3, 5, 6, 27	1, 2, 5	A, C, D
Designing an architectural project starting from its initial proposed form.	3, 5, 6, 27	1, 2, 5	A, C, D
Drawing the site plan of an architectural project.	3, 5, 6, 27	1, 2, 5	A, C, D
Preparing an architectural project according to standards, suitable for future constructions.	3, 5, 6, 27	1, 2, 5	A, C, D
Preparing a photo-realistic presentation of an architectural project.	3, 5, 6, 27	1, 2, 5	A, C, D
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Overviewing of modeling technologies.	
2	Understanding topology and its techniques, preparing storyboard for modelling and its analysis.	
3	Introduction to polygon modeling, defining High-Res and Low-Res models.	
4	Converting patches or NURBs to polygon models.	
5	Approaching organic modeling and re-topology techniques.	

6	Loft and terrain applications.	
7	Basic key frame animation application.	
8	Controlling curves of animation and graph editor.	
9	MIDTERM	
10	Path animation and constraints.	
11	Dynamic simulation and using slate material editor.	
12	Adjusting Environment and HDR settings.	
13	Adjusting lighting and rendering settings.	
14	Compositing and color correction for final presentations.	

RECOMMENDED SOURCES	
Textbook	-
Additional Resources	-

MATERIAL SHARING	
Documents	-
Assignments	-
Exams	-

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	40
Homework	5	20
Project (Assignment)		
Laboratory		
Field survey		

Seminars/presentations		
Other		
Final Exam (Final Project)	1	40
Contribution of Final Examination to Overall Grade		40
Contribution of In-term Studies to Overall Grade		60
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	4	56
Workload outside the classroom (research and reviews)	14	3	42
Quiz	2	4	8
Homework	5	2	10
Presentation/Seminars			
Midterm			
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	4	4
Total work load			120
Total work load / 25			4,80
ECTS of the course			5

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					x
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					x
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout				x	
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					

13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					X

28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Building Information Modeling (BIM)	ARCH 328	5-6-7-8	3+0+0	3	5

Prerequisites	-
Language of Instruction	English
Course Level	Undergraduate

Course Type	Elective
Course Coordinator	-
Instructors	-
Assistants	-
Goals	Modelling of architectural designs in 2D and 3D using Building Information Modelling techniques and their presentation.
Content	<ul style="list-style-type: none"> •Understanding BIM and the architectural element hierarchy •Defining architectural element hierarchy •Adding walls, doors and windows •Adding plumbing fixtures and other components •Linking AutoCAD DWG files •Working with Footprint and Extrusion Roofs •Adding railings and extensions to stairs •Using Orientation, Project North and True North •Defining Text and Dimension styles •Creating Worksets •Adding new families •Using reference planes, parameters, and constraints •Defining in place mass model •Plotting and creating a PDF •Materials, lights and render settings

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
Drawing an architectural project in 2D.	3, 5, 6, 27	1, 2, 5	A, C, D
Modelling an architectural project in 3D.	3, 5, 6, 27	1, 2, 5	A, C, D
Drawing a surveyed site in 2D and modelling the given site in 3D.	3, 5, 6, 27	1, 2, 5	A, C, D
Designing an architectural project starting from its initial proposed form.	3, 5, 6, 27	1, 2, 5	A, C, D
Drawing the site plan of an architectural project.	3, 5, 6, 27	1, 2, 5	A, C, D
Preparing an architectural project according to standards, suitable for future constructions.	3, 5, 6, 27	1, 2, 5	A, C, D
Preparing a photo-realistic presentation of an architectural project.	3, 5, 6, 27	1, 2, 5	A, C, D
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6:		

	Teamwork; 7:Technical excursion
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship

COURSE CONTENT		
Week	Topics	Preparation
1	Understanding BIM and the architectural element hierarchy.	
2	Defining architectural element hierarchy, adding walls, doors and windows.	
3	Adding plumbing fixtures and other components.	
4	Linking AutoCAD DWG files	
5	Working with Footprint and Extrusion Roofs.	
6	Adding railings and extensions to stairs.	
7	Using Orientation, Project North and True North.	
8	Defining Text and Dimension styles, creating Worksets.	
9	MIDTERM	
10	Adding new families.	
11	Using reference planes, parameters, and constraints.	
12	Defining in place mass model.	
13	Plotting and creating a PDF	
14	Materials, lights and render settings.	

RECOMMENDED SOURCES	
Textbook	-
Additional Resources	-

MATERIAL SHARING	
Documents	-
Assignments	-
Exams	-

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	40
Homework	5	20
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)	1	40
Contribution of Final Examination to Overall Grade		40
Contribution of In-term Studies to Overall Grade		60
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	4	56
Workload outside the classroom (research and reviews)	14	3	42
Quiz	2	4	8

Homework	5	2	10
Presentation/Seminars			
Midterm			
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	4	4
Total work load			120
Total work load / 25			4,80
ECTS of the course			5

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					x
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					x

6	Design skills: Ability to apply basic architectural principles in building, interiors and layout				x	
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					

21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					X
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

aCOURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
Architectural Structural Design	ARCH 345	5	2+2+0	3	5

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	Öğr. Gör. Mehmet Umut DENİZ
Instructors	Öğr. Gör. Mehmet Umut DENİZ, Öğr. Gör. Cem YÜCEL
Assistants	M. Çağlayan İNCE, Birsen STERLER, Burçin BAŞYAZICI
Goals	Comprehension of the role of structural systems in architecture through a spatial design-based scope.
Content	Evaluation and Design of Structural Systems in Architecture

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1) Student, gains the ability to explain, use and compare and contrast the existing architectural structures	3,4,13,16,19,22	1,3,5,7	A,C,D
2) Student, develops effective visual communication of structural concepts	3,4,13,16,19,22	1,2,6	A,C,D
3) Student, gains the ability to reach and assess relevant information about structural designs	3,4,13,16,19,22	1,2,3,6	A,C,D
4) Student, gains the ability to design and model a structural system that responds to vertical and horizontal forces	3,4,13,16,19,22	1,2,3,4,5,6,7	A,D

5) Student, gains the ability to integrate the structural system within the building shell	3,4,13,16,19,22	1,2,4,7	A,C,D
6) Student, gains the ability to design and implement a sustainable structural system	3,4,13,16,19,22	1,2,4,5	A,C,D
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	INTRODUCTION to Architectural Structures, concept, definitions, pioneer projects	-
2	-LOADS on Structures (vertical, lateral) -Structural FORCES, Structural Equilibrium -BEARING ELEMENTS (bearing walls, columns, foundations): concept, principles, materials, design, examples Modelling Studio: Design a rigid surface using spaghetti sticks	Collecting visual examples of structural stability
3	NATURE as a source of role models. Biologically inspired design, Biomimetics, Structural Interpretations Modelling Studio: Design a biologically inspired architectural structure	Collecting visual examples of bio-motivated structures-completing the model
4	-Masonry Structures: concept, principles, materials, design, examples Modelling Studio	Completing the model
5	-Reinforced Concrete Structures: concept, principles, materials, design, examples Modelling Studio	Completing the model
6	Mid-term Exam	-
7	-Timber Structures: concept, principles, materials, design,	Completing the

	examples Modelling Studio / Announcement of Termworks	model
8	-Timber Structures: concept, principles, materials, design, examples Modelling Studio	Completing the model-initial work on term project
9	-Steel Structures: concept, principles, materials, design, examples Modelling Studio	Completing the model-initial work on term project
10	-Steel Structures: concept, principles, materials, design, examples Modelling Studio	Completing the model-initial work on term project
11	-High-rise Structures: concept, principles, design, examples Modelling Studio	Work on term project
12	TENSILE SURFACES(membrane, cable net, tensegrity) Modelling Studio	Work on term project
13	CONTEMPORARY STRUCTURES: seminar on actual examples, contemporary structures Modelling Studio	Work on term project
14	Model making - Term work Project	Work on term project
15		

RECOMMENDED SOURCES	
Textbook	<ul style="list-style-type: none"> · Silver P., McLean W., Architekturtechnologie, DVA, Hamburg, 2009-Statmann · MacDonald A J., Structure and Architecture, Architectural Press, 2001
Additional Resources	<ul style="list-style-type: none"> · Deplazes A.(ed.), Constructing Architecture-Materials, Processes, Structures, Birkhäuser,Basel, 2005 N.,Handbuch Material Technologie,avedition Ludwigsburg Verlag für Architektur und Design, 2003 · Ching F., Building Construction Illustrated, John Wiley&Sons, 2008 · Janberg N., Structurae: International Database for Structures, http://en.structurae.de/index.cfm, online 2013

MATERIAL SHARING	
Documents	Contact the course coordinator for lecture hand-outs and documentary videos
Assignments	2 Assignments in biomimetics and structural analysis
Exams	Midterm and Final Assignment

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	25%
Homework	2	25%
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other		
Final Exam (Final Project)	1	50%
Contribution of Final Examination to Overall Grade		50%
Contribution of In-term Studies to Overall Grade		50%
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	4	56

Workload outside the classroom (research and reviews)	14	1	14
Quiz	1	10	10
Homework	2	10	20
Presentation/Seminars	1	4	4
Midterm	1	22	22
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)		1	10
Total work load			136
Total work load / 25			5,44
ECTS of the course			5

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.			3		
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes				4	

5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
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11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans			3		
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments				4	
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and					5

	application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					5
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					

35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					
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COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
Architectural Design III	ARCH 353	5	4+4+0	6	12

Prerequisites	ARCH 254
Language of Instruction	Turkish-English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	Prof. Dr. Nihal Şenlier
Assistants	
Goals	Teaching the architectural approaches to the students to design the projects of Public Buildings (such as Boutique Hotel, Houses for the Elderly, Town Hall etc), and producing the architectural projects in scales that the topic requires.
Content	Students are required to make the analysis and investigations within a 2-4 ha chosen urban area; and then prepare scenarios and architectural programs, produce the 1/1000 site plans, 1/100 plans-sections and facades, 1/20 system details and perspectives.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
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1. Student, gains the ability to organize spaces of different uses within a whole system and present according to architectural principles	3,4, 6, 29	1,3,4,5,6,7	A,B,C
2. Student, develops effective visual communication of architectural concepts	3,4	1,3,4,5,6,7	A,B,C
3. Student, gains the ability to reach and assess relevant information about contemporary architectural designs	4, 6	1,3,4,5,6,7	A,B,C
4. Student, gains the ability to integrate the structural system within a complex spatial system	19, 29,	1,2,3,4,5,6,7	A,B,C
5. Student, develops skills in communication on technical work	13,	1,2,3,4,5,6	A,B,C
6. Student, gains the ability to design and implement a sustainable architectural design concept	16, 19	1,2,3,4,5,6,7	A,B,C
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction	
2	Site Analysis, documentation, survey	
3	Site analysis + Synthesis	
4	1/5000 Master Plan Schema and Area Selection for the project	
5	Group Presentations for Analysis	
6	1/500 and 1/1000 parallel works	
7	1/1000 Site Plan works and Scenarios	
8	Drawing Exam	
9	1/1000 Site Plan and 1/200 Design for Housing Blocks +model	

10	1/200 plan-section-facade drawings + model	
11	Midterm Jury2	
12	1/200 plan-section-facade drawings + model works	
13	1/200 -1/100-1/20 scale drawing and model	
14	Work on Final Submission	

RECOMMENDED SOURCES

Textbook	<ul style="list-style-type: none"> · YEM; Projeler-Yapılar-Konutlar; İstanbul, 2014 · Brawne M., Architectural Thought: The Design Process and Expectant Eye, Architectural Press, London, 2003 · Duran, S.C.; Yüksek Yoğunluklu Konutlar, İstanbul, 2009 · MacDonald A J., Structure and Architecture, Architectural Press, 2001 · Parfect, M.; Planning for Urban Quality, Routledge 1997 · Urban, F.; Slab and Tower-Histories of Global Mass Housing, Routledge 2012
Additional Resources	<ul style="list-style-type: none"> · Heathcode, D.; Barbican-Penthouse Over the City, London 2012 · Constructing Architecture-Materials, Processes, Structures, Birkhäuser,Basel, 2005 · Alterman,R.; Neighbourhood Regeneration, London, Mansell,1991

MATERIAL SHARING

Documents	Contact the course coordinator for lecture hand-outs
Assignments	Homework as drawings and models for each studio session
Exams	2 Midterm Jury Evaluations (drawing exam + jury evaluation), in-studio performance evaluation and Final Assignment Jury Evaluation

ASSESSMENT

IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	25%
Homework		
Project (Assignment)		
Laboratory		
Field survey		

Seminars/presentations		
Other	14	25%
Final Exam (Final Project)	1	50%
Contribution of Final Examination to Overall Grade		50%
Contribution of In-term Studies to Overall Grade		50%
Total		50%
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD

	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	8	112
Workload outside the classroom (research and reviews)	14	8	112
Quiz	-	-	-
Homework	-	-	-
Presentation/Seminars	4	3	12
Midterm	2	8	16
Project	-	-	-
Laboratory	-	-	-
Field survey	2	8	16
Others	6	3	18
Final exam (Final Project)	1	8	8
Total work load			294
Total work load / 25			11,76
ECTS of the course			12

COURSE'S CONTRIBUTION TO PROGRAM

No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					5
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					5
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					5
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					5
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					5
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					5
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					5
13	Human behaviors: Understanding the interaction between physical					5

	environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					5
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					5
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					5
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					5
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					5
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					5
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					5
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					

28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					5
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
Architectural Design IV	ARCH 354	6	4+4+0	6	12

Prerequisites	ARCH 353
Language of Instruction	Turkish-English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	Prof. Dr. Nihal Şenlier
Instructors	Prof. Dr. Nihal Şenlier Öğr. Gör. Tümay TÜRKMEN

Assistants	
Goals	Teaching students to build up the necessary skills for making analysis in scales of urban design, developing a master plan schema and designing the architectural projects within the chosen area for a sustainable / livable mass housing projects
Content	Making the necessary analysis for a chosen urban area of 20-30 ha and producing a master plan schema; and then for a selected 7-10 ha portion of this area making the density and other calculations, producing the 1/1000 site plans, 1/100 plan sections and facades and 1/20 system details and 3D visuals for a mass housing settlement project.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
7. Student, gains the ability to organize spaces of different uses within a whole system and present according to architectural principles	3,4, 6, 29	1,3,4,5,6,7	A,B,C
8. Student, develops effective visual communication of architectural concepts	3,4	1,3,4,5,6,7	A,B,C
9. Student, gains the ability to reach and assess relevant information about contemporary architectural designs	4, 6	1,3,4,5,6,7	A,B,C
10. Student, gains the ability to integrate the structural system within a complex spatial system	19, 29,	1,2,3,4,5,6,7	A,B,C
11. Student, develops skills in communication on technical work	13,	1,2,3,4,5,6	A,B,C
12. Student, gains the ability to design and implement a sustainable architectural design concept	16, 19	1,2,3,4,5,6,7	A,B,C
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction	
2	Site Analysis, documentation, survey	
3	Site analysis + Synthesis	
4	1/5000 Master Plan Schema and Area Selection for the project	
5	Group Presentations for Analysis	
6	1/500 and 1/1000 parallel works	
7	1/1000 Site Plan works and Scenarios	
8	Drawing Exam	
9	1/1000 Site Plan and 1/200 Design for Housing Blocks +model	
10	1/200 plan-section-facade drawings + model	
11	Midterm Jury2	
12	1/200 plan-section-facade drawings + model works	
13	1/200 -1/100-1/20 scale drawing and model	
14	Work on Final Submission	

RECOMMENDED SOURCES	
Textbook	<ul style="list-style-type: none"> · YEM; Projeler-Yapılar-Konutlar; İstanbul, 2014 · Brawne M., Architectural Thought: The Design Process and Expectant Eye, Architectural Press, London, 2003 · Duran, S.C.; Yüksek Yoğunluklu Konutlar, İstanbul, 2009 · MacDonald A J., Structure and Architecture, Architectural Press, 2001 · Parfect, M.; Planning for Urban Quality, Routledge 1997 · Urban, F.; Slab and Tower-Histories of Global Mass Housing, Routledge 2012
Additional Resources	<ul style="list-style-type: none"> · Heathcode, D.; barbican-Penthouse Over the City, London 2012 · Constructing Architecture-Materials, Processes, Structures, Birkhäuser,Basel, 2005 · Alterman,R.; Neighbourhood Regeneration, London, Mansell,1991

MATERIAL SHARING	
Documents	Contact the course coordinator for lecture hand-outs
Assignments	Homework as drawings and models for each studio session
Exams	2 Midterm Jury Evaluations (drawing exam + jury evaluation), in-studio performance evaluation and Final Assignment Jury Evaluation

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	25%
Homework		
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other	14	25%
Final Exam (Final Project)	1	50%
Contribution of Final Examination to Overall Grade		50%
Contribution of In-term Studies to Overall Grade		50%
Total		50%
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	8	112
Workload outside the classroom (research and reviews)	14	8	112

Quiz	-	-	-
Homework	-	-	-
Presentation/Seminars	4	3	12
Midterm	2	8	16
Project	-	-	-
Laboratory	-	-	-
Field survey	2	8	16
Others	6	3	18
Final exam (Final Project)	1	8	8
Total work load			294
Total work load / 25			11,76
ECTS of the course			12

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					5
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					5
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					5
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design,					5

	architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					5
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					5
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					5
13	Human behaviors: Understanding the interaction between physical environment and humans					5
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					5
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					5
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					5
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					5
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					5
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					5

20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					5
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					5
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					

35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					
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COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
History of Town Planning	ARCH 362	5-6-7-8	3+0+0	3	5

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Elective
Course Coordinator	
Instructors	Assoc. Prof. Dilek Özdemir Darby
Assistants	
Goals	The aim of this course is to provide a brief review of the historical evolution of towns and cities and their major morphological components - such as streets, squares, market areas- from the earliest cities to the mid-20 th century, with reference to social, economic, and spatial concerns.
Content	Learning the history of the city through written and visual material; conducting a study based upon a morphological component of a city, and then presenting the findings.

Learning Outcomes	Program Learning	Teaching Methods	Assessment Methods
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	Outcomes		
1) Ability to analyse the causalities behind the economic, social and spatial development of cities from a historical perspective	2,5,18	1,2,3	A
2) Ability to analyse the characteristics of the spatial components – streets, squares, of the city	1,2,3,5,7,12,18	1,2,3	A,C
3) Ability to assess public open spaces in cities with reference to scale, proportion and spatial qualities	1,2,3,5,7,12,18	1,2,3,6	A, C
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Ancient Cities (3000 BC-700 BC) of Egyptian, Mesopotamian and Harappan civilizations	Lecture notes
2	Greek City States	Lecture notes
3	Rome and the Empire	Lecture notes
4	Medieval cities	Lecture notes
5	Medieval cities	Lecture notes
6	Renaissance and Baroque cities	Lecture notes
7	Midterm exam	Lecture notes
8	Industrial Revolution and industrial cities	Lecture notes
9	Early Utopians, post-industrial city, and great exhibitions	Lecture notes
10	City Beautiful Movement	Lecture notes
11	Presentations	Lecture notes
12	A Documentary Film on the Industrial Revolution and Industrial Cities of England	Lecture notes

13	Twentieth century Urban Utopians and Architects – I (Ebenezer Howard, Frank Lloyd Wright)	Lecture notes
14	Twentieth century Urban Utopians and Architects – II (Soria y Mata, Le Corbusier, Doxiadis)	Lecture notes

RECOMMENDED SOURCES

Textbook	<p>Benevolo, L. (1980) <i>The History of the City</i>, MIT Press, Cambridge.</p> <p>Gallion, A.B. (1950) <i>The Urban Pattern: City Planning and Design</i>, Van Nostrand Company, London.</p> <p>Girouard, M. (1985) <i>Cities and People: A Social and Architectural History</i>, Yale University Press, New Haven and London</p> <p>Hall, P. (1992) <i>Urban and Regional Planning</i>, Routledge, London.</p> <p>Zucker, P. (1966) <i>Town and Square: From the Agora to the Village Green</i>, Columbia University Press, New York</p>
Additional Resources	<p>Buder, S. (1969) "Ebenezer Howard: the genesis of a town planning movement", <i>A.I.P. Journal</i>, Vol.35, No.5, pp.390-398.</p> <p>Fishman, R. (1977) <i>Urban Utopias in the Twentieth Century: Ebenezer Howard, Frank Lloyd Wright, and Le Corbusier</i>, Basic Books Inc., New York.</p> <p>Gideon, S. (1942) <i>Space, Time and Architecture</i>, Harvard University Press, Cambridge.</p> <p>Goist, P.D. (1974) "Patrick Geddes and the city", <i>A.I.P. Journal</i>, Vol.40, No.1</p> <p>Morris, A.E.G. (1996) (3rd ed.) <i>The History of Urban Form</i>, Longman.</p> <p>Pirenne, H. (1990) <i>Ortaçağ Kentleri: Kökenleri ve Ticaretin Canlanması</i>, İletişim Yayınları, İstanbul.</p> <p>Wycherley, R.E. (1986) <i>Antik Çağda Kentler Nasıl Kuruldu?</i>, Arkeoloji ve Sanat Yayınları No.3, Ufuk Matbaası, İstanbul.</p>

MATERIAL SHARING

Documents	BBC documentary titled as "How We Built Cities?"
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	30
Homework		
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations	1	20
Other		
Final Exam (Final Project)	1	50
Contribution of Final Examination to Overall Grade		50
Contribution of In-term Studies to Overall Grade		50
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	3	42
Workload outside the classroom (research and reviews)	14	3	42
Quiz			
Homework			
Presentation/Seminars	1	42	42
Midterm	1	2	2
Project			
Laboratory			

Field survey			
Others			
Final exam (Final Project)	1	2	2
Total work load			130
Total work load / 25			5,2
ECTS of the course			5

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes				X	
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles				X	

9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans				X	
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					

24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Architectural Project Management	ARCH 418	7	1+2+0	2	5

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	
Assistants	
Goals	The aim of the course is to teach students the techniques that are used for identifying problems and managing projects in various phases of the project life cycle such as feasibility, design – planning, construction and operation.
Content	In this concept emphasis will be given to project organization and contracting systems (Traditional, Design and Build, Construction Management, Management Contracting and Build-Operate-Transfer type projects), project evaluation and financing, time management techniques (Gantt, CPM, PERT), classification of costs, budgeting, quantity take off, estimation, project monitoring and control (traditional system vs. earned value project management, characteristics of efficient control systems), acceleration and tradeoffs between time cost and quality parameters.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. Increased level of student knowledge in construction management.	26, 27, 30, 31, 35	1, 2, 3	A,C
2. Increased level of student knowledge as to how a typical construction managed.	26, 27, 30, 31	1, 2, 3,	A, C

3. Understanding the main principles of construction management.	26, 27, 30, 31, 35	1, 2, 3, 6	A
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7: Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D: Quiz, E: Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Practical Introduction to Construction Management	
2	What is a project? Effective Project Management Principles	
3	Essential Aspects of Construction Management	
4	Tender and Procurement Stage	
5	Cost Estimation and Cost Management	
6	Scheduling and Programming (1)	
7	Mid-Term Exam #1	
8	Scheduling and Programming (2) / Case Study	
9	Construction Contract Management (1)	
10	Construction Contract Management (2)	
11	Mid-Term Exam #2	
12	Case Studies (Project Management Principles, Contract Management)	
13	Construction Site Planning and Management	
14	Construction Site Administration Systems	

RECOMMENDED SOURCES	
Textbook	
Additional	. FTA - Federal Transit Administration, 2006, Construction Project Management

Resources	<p>Handbook, USA</p> <ul style="list-style-type: none"> . Davidson, J., 10 Minute Guide to Project Management, MacMillan USA . BSI British Standards, 2006, Guide to Project Management in Construction . William R. Duncan, A Guide to the Project Management Body of Knowledge, Project Management Institute, Newtown Square, PA, USA 1996 . Thomsett, M. C., The Little Black Book of Project Management, Amacom Books, New York . DRBF Practices and Procedures, Seattle, WA, USA 2007 . O'Brian, J.J.; Plotnick, F.L., CPM in Construction Management, McGraw Hill, New York . Köksal, T., Küresel İnşaat Hukuku, 2010, Adalet Yayınevi, Ankara . FIDIC – International Federation of Consulting Engineers, Suite of Constructon Contracts (Red, Yellow, Silver, MDB Books) (1999 Edition), Geneva, Switzerland . The FIDIC Contracts Guide, Lausanne, Switzerland, 2000
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MATERIAL SHARING	
Documents	
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	% 45
Homework	-	-
Project (Assignment)	-	-
Laboratory	-	-
Field survey	-	-
Seminars/presentations	-	-
Other	1	% 10
Final Exam (Final Project)	1	% 45
Contribution of Final Examination to Overall Grade		% 45
Contribution of In-term Studies to Overall Grade		% 55

Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	4	56
Workload outside the classroom (research and reviews)	14	4	56
Quiz	-	-	-
Homework	-	-	-
Presentation/Seminars	1	4	4
Midterm	2	2	4
Project	-	-	-
Laboratory	-	-	-
Field survey	-	-	-
Others	-	-	-
Final exam (Final Project)	1	2	2
Total work load			136
Total work load / 25			4,88
ECTS of the course			5

COURSE'S CONTRIBUTION TO PROGRAM		
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)

		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					

15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control				X	
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project				X	
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					

30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement				X	
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture				X	
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice				X	

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Modelling and Photography	ARCH 432	5-6-7-8	3+0+0	3	5

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree
Course Type	Elective
Course Coordinator	
Instructors	

Assistants	
Goals	Course aims to teach the techniques of model making for project presentation. Students will make a model of a designed building with architectural importance then prepare an educational presentation explaining the project by its architectural drawings and model photography and also the physical model itself.
Content	Building upon a theoretical basis (material examples, application methods), application of different materials and techniques on a variety of model making assignments.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. Skill to express spatial concepts and ideas in a three dimensional way through the use of models and ability to generate forms.	2,4, 5, 6	1,3,5	A,B,C
2. Understanding of how to increase creativity by experimenting.	5, 6	1,3,5	A,B,C
3. Knowledge of the different architectural model types, materials and techniques.	4, 5, 6	1,3,5	A,B,C
4. Ability to choose suitable materials in accordance with the type and aim of the model. Skill to cut, form and bind different model making materials in a proper way.	5, 6	1,3,5	A,B,C
Ability to use model images as 2 dimensional tools, through enhancement of model photography.	5	1,3,5	A,B,C
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation

1	<p>Introduction to modelling, a discussion with students about model making. Giving information about the scope of the course and its operation.</p> <p>Modelling materials and its types. Explaining the materials to be brought to the next lesson.</p>	
2	<p>Material 1 – Cardboard: properties of the material, techniques of cutting, forming and combining and its examples.</p> <p>Practice 1 – Cardboard</p>	
3	<p>Practice 1 – Cardboard: continue to apply, discussion of modelling in the studio.</p> <p>Explaining the materials to be brought to the next lesson.</p>	
4	<p>Material 2 – Polystyrene foam: properties of the material, techniques of cutting, forming and combining and its examples.</p> <p>Practice 2 – Polystyrene foam</p>	
5	<p>Practice 2 – Polystyrene foam: continue to apply, discussion of modelling in the studio.</p> <p>Explaining the materials to be brought to the next lesson.</p>	
6	<p>Material 3 – Metal/Wire: properties of the material, techniques of cutting, forming and combining and its examples.</p> <p>Practice 3 – Metal/Wire</p>	
7	<p>Practice 3 – Metal/Wire: continue to apply, discussion of modelling in the studio.</p> <p>Explaining the materials to be brought to the next lesson.</p>	
8	<p>Material 4 – Plaster: properties of the material, techniques of cutting, forming and combining and its examples.</p> <p>Practice 4 – Plaster</p>	
9	<p>Practice 4 – Plaster: continue to apply, discussion of modelling in the studio.</p> <p>Explaining the materials to be brought to the next lesson.</p>	
10	Mid-term: Modelling	
11	<p>Material 5 – Composite: introducing to the other material like plastic and timber; its properties, techniques and giving them examples.</p> <p>Practice 5 – Composite: Modelling with the chosen materials, taking photos of the models and preparing an album with them.</p>	
12	Practice 5 – Composite: continue to apply, taking photos of the models and preparing an album with them.	

13	Practice 5 – Composite: continue to apply, taking photos of the models and preparing an album with them.	
14	Discussion about the final models and general evaluation.	

RECOMMENDED SOURCES

Textbook	<ul style="list-style-type: none"> . DUNN Nick, <i>Architectural Modelmaking</i> (London: Laurence King Publishing, 2010) . MILLS Criss B., <i>Designing with Models: A Studio Guide to Making and Using Architectural Design Models</i> (New Jersey: John Wiley and Sons Inc., 2005) . SCHILLING Alexander, <i>Basics: Modelbuilding</i> (Berlin: Birkhaeuser, 2006)
Additional Resources	<ul style="list-style-type: none"> . LIM Joseph, <i>Bio-structural: Analogues in Architecture</i> (Amsterdam: BIS Publishers, 2009) . MORRIS Mark, <i>Models: Architecture and the Miniature</i> (UK: John Wiley & Sons Ltd., 2006) . VYZOVITI Sophia, <i>Folding Architecture: Spatial, Structural and Organizational Diagrams</i> (Amsterdam: BIS Publishers, 2003-2010)

MATERIAL SHARING

Documents	
Assignments	
Exams	

ASSESSMENT

IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	%20
Homework		
Project (Assignment)	5	%30
Laboratory		
Field survey		
Seminars/presentations		
Other		

Final Exam (Final Project)	1	%50
Contribution of Final Examination to Overall Grade		%50
Contribution of In-term Studies to Overall Grade		%50
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	4	56
Workload outside the classroom (research and reviews)	14	3	42
Quiz			
Homework	2	6	12
Presentation/Seminars			
Midterm	1	8	8
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	24	24
Total work load			136
Total work load / 25			5,44
ECTS of the course			5

COURSE'S CONTRIBUTION TO PROGRAM

No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards				X	
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes			X		
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					X
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout				X	
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical					

	environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
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23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					

28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Urban Renewal and Regeneration	ARCH 447	5-6-7-8	3+0+0	3	5

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Elective

Course Coordinator	
Instructors	Assoc. Prof.Dr. Ayşe Dilek Darby
Assistants	
Goals	Studying the characteristics of the urbanization process in Europe and the US after the World War II; analyzing the large-scale urban renewal and regeneration projects in the western world; studying housing provision and the urbanization dynamics in Turkey; making comparisons between the urban renewal and regeneration projects in Turkey and Europe.
Content	Urbanization process in Europe, housing provision in Europe and Turkey; urban renewal and regeneration projects in Europe and Turkey

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. Students can conduct academic research and present by using the appropriate graphic communication skills	1,2,3,4,7	1,2,3, 4, 6	C,D,
2. Students can evaluate urban renewal and regeneration projects implemented in the Western world	8,9,11,12	1,2,3, 4, 6	C,D,
3. Students have the ability to evaluate the urbanization dynamics and housing provision in Turkey	10	1,2,3, 4, 6	C,D,
4. Students can compare urban renewal and regeneration projects implemented in Europe and Turkey	2, 12,16	1,2,3, 4, 6	C,D,
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation

1	Introduction to the course, The backdrop- I: Economic problems and the City in the Western world	
2	The backdrop - II: New urban economies in Europe and the US Urban policy and the Changing City	Lecture notes
3	Urban change and emergent urban forms in European and US cities	Lecture notes
4	Transforming the image of the city Tourism, leisure and culture-led regeneration	Lecture notes
5	Mid-term	
6	Social and Community Issues, Urban regeneration and social sustainability	Lecture notes
7	Housing-led regeneration and gentrification The evaluation of the successes and the failures of the urban regeneration projects in Europe	Lecture notes
8	Urbanization and housing experience in Turkey	Lecture notes
9	New laws related to urban regeneration and renewal projects in Turkey and implementation problems	Lecture notes
10	Student presentations: Urban renewal and regeneration projects in Turkish cities	
11	Student presentations: Urban renewal and regeneration projects in Turkish cities	
12	Student presentations: Large scale urban (re)development projects in Europe – part I	
13	Student presentations: Large scale urban (re)development projects in Europe – part II	
14	Review of the course	General review

RECOMMENDED SOURCES	
Textbook	Colantonio, A. & Dixon, T. (2011) <i>Urban Regeneration and Social Sustainability: Best Practice from European Cities</i> , Wiley-Blackwell.
	Couch, C., Fraser, C. and Percy, S. (2003) <i>Urban Regeneration in Europe</i> , Blackwell.
	Hall, T. (2006) (3 rd ed.) <i>Urban Geography</i> , Routledge, London and New York.
	<i>Large Scale Urban Development Projects in Europe</i> (2007) Institute for Urban Planning and Development for the Ile-de-France-Region.
	Özdemir, D. (2010) (ed.) <i>Kentsel Dönüşümde Politika, Mevzuat, Uygulama: Avrupa Deneyimi, İstanbul Uygulamaları</i> , Nobel Publishing, Ankara

	<p>Özden, P. (2008) <i>Kentsel Yenileme</i>, İmge Publishing, İstanbul</p> <p>Tallon, A. (2010) Tallon, A. (2010) <i>Urban Regeneration in the UK</i>, Routledge, London</p> <p><i>Journal of Urban Regeneration and Renewal</i></p>
Additional Resources	

MATERIAL SHARING	
Documents	
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	20
Homework		
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations	1	50
Other		
Final Exam (Final Project)	1	30
Contribution of Final Examination to Overall Grade		30
Contribution of In-term Studies to Overall Grade		70
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	3	42
Workload outside the classroom (research and reviews)	14	6	84
Quiz			
Homework			
Presentation/Seminars	1	1	1
Midterm	1	1	1
Project			
Laboratory			
Field survey			
Others			
Final exam (Final Project)	1	1	1
Total work load			130
Total work load / 25			5,2
ECTS of the course			5

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					X
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					X

3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					X
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					X
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design	X				
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout	X				
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					X
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					X
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					X
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					X
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.				X	
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					X
13	Human behaviors: Understanding the interaction between physical environment and humans	X				
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures	X				
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.	X				
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					X
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate	X				

	precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site	X				
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems	X				
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.	X				
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits	X				
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells	X				
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems	X				
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.	X				
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.	X				
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control	X				
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project	X				
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect	X				
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)	X				
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement	X				
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture	X				
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the	X				

	employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration	X				
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies	X				
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice	X				

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
Architectural Design V	ARCH 453	7	4+4+0	6	12

Prerequisites	ARCH 354
Language of Instruction	Turkish-English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	
Instructors	
Assistants	
Goals	Delivering an integrated design project featuring spatial organization of multiple functions and the design of a wide-span structural system.
Content	Studio work based on lectures, modelling and visualizations on a design project, featuring a complex system of spaces

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
4) Student, gains the ability to organize spaces of different uses within a whole system and present according to architectural principles	3,4, 6, 29	1,3,4,5,6,7	A,B,C
5) Student, develops effective visual communication of architectural concepts	3,4	1,3,4,5,6,7	A,B,C
6) Student, gains the ability to reach and assess relevant information about contemporary architectural designs	4, 6	1,3,4,5,6,7	A,B,C
7) Student, gains the ability to integrate the structural system within a complex spatial system	19, 29,	1,2,3,4,5,6,7	A,B,C
8) Student, develops skills in communication on technical work	13,	1,2,3,4,5,6	A,B,C
9) Student, gains the ability to design and implement a sustainable architectural design concept	16, 19	1,2,3,4,5,6,7	A,B,C
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Presentations on Site Analysis	-
2	Student's Presentations about the site, 1/1000 Site Plan Analysis	Preliminary research on project site
3	1/1000 Site Plan Work	Preliminary research on project topic
4	1/1000, 1/500 Models	Completing the model and drawings
5	1/500 scaled Models	Completing the model and drawings

6	Midterm Jury 1	Preparing for jury presentations
7	1/500 modelling/visualizations	Completing the model and drawings
8	1/500, 1/200 scaled modelling/visualizations	Completing the model and drawings
9	1/200 scaled modelling/visualizations	Completing the model and drawings
10	1/200 scaled modelling/visualizations	Completing the model and drawings
11	Midterm Jury 2	Preparing for jury presentations
12	1/200 scaled modelling/visualizations	Completing the model and drawings
13	1/100 scaled modelling/visualizations	Completing the model and drawings
14	Work on Final Submission	Completing the model and drawings

RECOMMENDED SOURCES

Textbook	<ul style="list-style-type: none"> Gür Ş.Ö., Mekan Örgütlemesi, Gür, İstanbul, 1996 Brawne M., Architectural Thought: The Design Process and Expectant Eye, Architectural Press, London, 2003 Silver P., McLean W., Architekturtechnologie, DVA, Hamburg, 2009-Statmann MacDonald A J., Structure and Architecture, Architectural Press, 2001
Additional Resources	<ul style="list-style-type: none"> Deplazes A.(ed.), Constructing Architecture-Materials, Processes, Structures, Birkhäuser,Basel, 2005 Ching F., Building Construction Illustrated, John Wiley&Sons, 2008

MATERIAL SHARING

Documents	Contact the course coordinator for lecture hand-outs
Assignments	Homework as drawings and models for each studio session
Exams	2 Midterm Jury Evaluations, in-studio performance evaluation and Final Assignment Jury Evaluation

ASSESSMENT

IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	25%

Homework		
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations		
Other	14	25%
Final Exam (Final Project)	1	50%
Contribution of Final Examination to Overall Grade		50%
Contribution of In-term Studies to Overall Grade		50%
Total		100%
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	8	112
Workload outside the classroom (research and reviews)	14	6	84
Quiz			
Homework	14	3	42
Presentation/Seminars	1	10	10
Midterm	2	10	20
Project			
Laboratory			
Field survey	1	10	10
Others			

Final exam (Final Project)	1	10	10
Total work load			288
Total work load / 25			11,52
ECTS of the course			12

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					5
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					5
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					5
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					

10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans					5
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					5
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					5
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					

25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					5
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDITS	ECTS
Theory and Application of Town Planning	ARCH 467	6	2+2+0	3	6

Prerequisites	-
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Elective
Course Coordinator	
Instructors	Assoc. Prof.Dr. Ayşe Dilek Darby
Assistants	
Goals	Introduction to urban design, teaching basic principles of urban design; conducting a site analysis in a historical neighbourhood and designing an open space (a square, a park, etc) according to a concept
Content	Learning the fundamentals of urban design by conducting a site analysis in an historical urban neighbourhood.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
Ability to analyse the components of the urban environment	2.5.6, 18	1.2.3.5.6.7	D
Ability to participate in the project as a part of the team and learn collaboration skills	7	1.2.3.5.6.7	B
Ability to implement graphic presentation techniques of hand-drawing and computer technologies	1, 3	5,6,	B
Ability using the appropriate examples to design and develop an urban design project.	4, 12	5,6	B
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Basic parameters of a site analysis; SWOT Analysis of the site analysis process	
2	Cognition, perception and mental maps of the city; building places and defining spaces (transition from public to private space)	Classwork
3	Technical Excursion	
4	Transportation and parking	Classwork
5	Urban open spaces: space and enclosure, squares and pedestrian areas	Classwork
6	Urban open space (continued): squares and pedestrian areas	Classwork
7	Preliminary jury for the site and SWOT analysis	
8	1st jury	
9	Design principles for parks and open spaces - I	
10	Design principles for parks and open spaces - II	Quiz
11	Classwork	Classwork
12	Sketch problem	
13	Preliminary jury on proposals for Moda	Classwork
14	2nd jury	
15		

RECOMMENDED SOURCES	
Textbook	<p>Biddulph, M. (2007) <i>Introduction to Residential Layout</i>, London: Elsevier</p> <p>GLC (1980) <i>An introduction to Housing Layout</i>, London: The Architectural Press.</p> <p>Erpi, F. (1980) <i>Urban Traffic Planning</i>, METU, Ankara.</p> <p>Gehl, J. and Gemzoe, L (2000) <i>New City Spaces</i>, Danish Architectural Press, Copenhagen</p>

	<p>Marcus, C. C and Francis, C. (eds) (1998) <i>People Places: Design Guidelines for Urban Open Space</i>, Van Nostrand Reinhold, New York</p> <p>Larice, M. And Macdonald, E. (2007) <i>The Urban Design Reader</i>, Routledge.</p> <p>Untermann, R. and Small, R. (1977) <i>Site Planning for Cluster Housing</i>, Van Nostrand Reinhold</p> <p>Carmona, M., Heath, T., Öc, T. and Tiesdell, S. (2003) <i>Public Places – Urban Spaces: A Guide to Urban Design</i>, Architectural Press, Elsevier.</p>
Additional Resources	<p>Ersoy, M. <i>Kentsel Alan Kullanım Normları</i>, ODTÜ, Ankara</p> <p>Krier, R. (1984) <i>Urban Space</i>, Academy Editions, London.</p> <p>Reid, G.W. (1987) <i>Landscape Graphics</i>, New York: Watson-Guption Publications.</p> <p>http://www.carfree.com; http://www.carfree.com/cpix/category.html</p>

MATERIAL SHARING	
Documents	
Assignments	
Exams	

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	1	10
Homework		
Project (Assignment)	1	40
Laboratory		
Field survey		
Seminars/presentations		
Other	1	10
Final Exam (Final Project)		40

Contribution of Final Examination to Overall Grade		40
Contribution of In-term Studies to Overall Grade	1	60
Total	1	100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	4	56
Workload outside the classroom (research and reviews)	14	4	56
Quiz			
Homework			
Presentation/Seminars			
Midterm	1	1	1
Project	2	10	20
Laboratory			
Field survey	4	2	8
Others			
Final exam (Final Project)	1	3	3
Total work load			144
Total work load / 25			5,76
ECTS of the course			6

COURSE'S CONTRIBUTION TO PROGRAM		
		Contribution (1=lowest, 5

No	Program Learning Outcomes	highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills			X		
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					X
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					X
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					X
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					X
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					X
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					X
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					X

13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					X
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
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34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
Stone Conservation Technology	ARCH 472	5-6-7-8	3+0+0	3	5

Prerequisites	-
Language of Instruction	English

Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Elective
Course Coordinator	
Instructors	Prof. Ayse Gülçin Küçükkaya
Assistants	-
Goals	The geology of ancient building stone, causes of deterioration and restoration methods are examined.
Content	The causes of deterioration of the deteriorated ancient building stones (Internal, External - Atmospheric effects and humidity, Thermal, Biodeterioration) and restoration methods (Surface consolidation, internal reinforcement, treatment of cracks) Non-destructive new morphological research techniques (endoscopy, different light and sound analysis techniques) are examined.

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. Awareness of professional and ethical responsibility on stone conservation issues.	11,25	1, 2, 3, 4,5,6, 7	A, C
2. Information and awareness about stone conservation studies in the world	1,2,4,11,25	1, 2, 3, 4,5,6, 7	A, C
3. Adequate knowledge in architectural stone conservation subjects pertaining to the relevant discipline; ability to use theoretical and applied information in stone conservation area, to solve architectural conservation problems.	4,6,11,25	1, 2, 3, 4,5,6, 7	A, C
4. Ability to identify, formulate, and solve complex stone conservation problems; ability to select and apply proper analytical survey methods for this purpose.	4,6,11,25	1, 2, 3, 4,5,6, 7	A, C
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Petrography of Stone Building Material	
2	Petrography of Stone Building Material	
3	Natural Stone as a Building Material	
4	Causes of Stone Deterioration	
5	Causes of Stone Deterioration	
6	Causes and Deterioration	
7	Mid-term Exam I	
8	Restoration Technology	
9	Restoration Technology	
10	Seminar	
11	Seminar	
12	Seminar	
13	Exam II	
14	Workshop	

RECOMMENDED SOURCES	
Textbook	. Ahunbay, Z. , 1996, Tarihi Çevre Koruma ve Restorasyon, YEM Yayıncılık, İstanbul, Küçükaya, A. G. , 2004, Yapı Taşlarının Tahrip Nedenleri, Bozulma Şekilleri ve Restorasyon Yöntemleri, <i>Birsan Yayınevi, İstanbul</i>
Additional Resources	. www.ICCROM.org and www.ICOMOS.org , www.unesco.org

MATERIAL SHARING	
Documents	Documentary, film, slide show
Assignments	Hand recording, seminar, workshop

Exams	Mid-term exam, final exam
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ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	%10+%40
Homework		
Project (Assignment)		
Laboratory		
Field survey		
Seminars/presentations	1	%20
Other		
Final Exam (Final Project)	1	%40
Contribution of Final Examination to Overall Grade		%60
Contribution of In-term Studies to Overall Grade		%40
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	3	42
Workload outside the classroom (research and reviews)	14	4	56
Quiz	1	12	12
Homework	-	-	-
Presentation/Seminars	1	20	20
Midterm	1	3	3

Project	-	-	-
Laboratory	-	-	-
Field survey	-	-	-
Others	-	-	-
Final exam (Final Project)	1	3	3
Total work load			136
Total work load / 25			5,44
ECTS of the course			5

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					x
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					x
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					x
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					x
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in					

	conjunction with other environments					
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
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10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					x
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					
13	Human behaviors: Understanding the interaction between physical environment and humans					
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
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18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					
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21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design					

	systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					X
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					
28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
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34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					

COURSE INFORMATION					
Course Title	CODE	SEMESTER	T+P+L HOUR	CREDİTS	ECTS
Architectural Design VI	ARCH 493	8	4+4+0	6	16

Prerequisites	ARCH 453
Language of Instruction	English
Course Level	Bachelor's Degree (First Cycle Programmes)
Course Type	Compulsory
Course Coordinator	Prof. Dr. Nihal ŞENLİER
Instructors	Prof. Dr. Halit Yaşa ERSOY
Assistants	Çağlayan İNCE
Goals	The main aim of the final semester of the design sequence is to focus on a design work which proves that the students have reached to a level of proficiency both in terms of professional quality and in terms of knowledge of architecture.
Content	<p>Graduation Project is the final step towards professional practice. Therefore, in this final project the students are expected to deal with the complexities of architecture and develop ideas which consider the fundamental problematic of architectural practice such as theory, program, technology and site. The following criteria should be considered in the design of the buildings and environment at a general level:</p> <ul style="list-style-type: none"> • Context analysis • Organization of movement and main transportation artery, • Organization of spaces, • Organization of activities, • Creation of sense of place, • Consideration of climate, topography, landscape and history, • Service, circulation and vehicle access • Site specific ideas and solutions • Flexible use of space and program • Continuity between interior and exterior space

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
1) To develop the project by doing a research on the examples about architectural processes and buildings parallel to the program.	4,5,6,12,13, 17, 26, 29	1,2,3,5	C
2) To design comprehensively based on fundamental architectural knowledge and by considering the environmental systems, load-bearing systems, sustainability, formal composition systems.	4,5,6,12,13,16, 17, 18, 19, 26, 29	1,2,3,5	A,B,C
3) To design the program of the project with a critical thinking system considering the site conditions and human behavior.	12,13,16, 17, 18, 19, 26, 29	1,2,3,5,6,7	C
4) To design the project individually and present it to a jury.	2,3, 4,	2,3,5	B
5) To work in a group during excursions, model works, homework, preparations and presentations.	2,4,5,6,7	1,2,3,5,6,7	C
Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Seminar, 5: Project, 6: Teamwork; 7:Technical excursion		
Assessment Methods:	A: Testing, B: Jury, C: Homework, D:Quiz, E:Internship		

COURSE CONTENT		
Week	Topics	Preparation
1	Introduction of the topic and site	
2	Presentation of site analysis and research	
3	WORKSHOP	
4	WORKSHOP	
5	WORKSHOP	
6	1.MID-TERM JURY	

7	SKETCH PROBLEM (09.00-13.00) / WORKSHOP (14.00-18.00)	
8	WORKSHOP	
9	WORKSHOP	
10	SKETCH PROBLEM (09.00-13.00) / WORKSHOP (14.00-18.00)	
11	2. MID-TERM JURY	
12	WORKSHOP	
13	WORKSHOP	
14	Preparation for the end jury	

RECOMMENDED SOURCES	
Textbook	-
Additional Resources	-

MATERIAL SHARING	
Documents	-
Assignments	-
Exams	-

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-terms	2	25
Homework (Sketch Problem)	1	10
Project (Assignment)		
Laboratory		
Field survey		

Seminars/presentations	1	5
Other	1	20
Final Exam (Final Project)	1	40
Contribution of Final Examination to Overall Grade		40
Contribution of In-term Studies to Overall Grade		60
Total		100
Course Category	Expertise/Field Courses	

ECTS / STUDENT WORK LOAD			
	NUMBER	DURATION (HOURS)	TOTAL WORK LOAD (HOURS)
Course Duration (14 weeks x total work hours)	14	8	112
Workload outside the classroom (research and reviews)	14	8	112
Quiz	-	-	-
Homework	1	8	8
Presentation/Seminars	4	8	32
Midterm	2	8	16
Project	14	8	112
Laboratory	-	-	-
Field survey	2	5	10
Others	-	-	-
Final exam (Final Project)	1	8	8
Total work load			410
Total work load / 25			16,4
ECTS of the course			16

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution (1=lowest, 5 highest)				
		1	2	3	4	5
1	Speaking and writing skills: Effective reading, writing, listening and speaking skills					
2	Critical thinking skills: Ability to develop clear and open questions, use abstract ideas to express ideas, evaluate opposing views, reach to the well-examined results and test them with similar criteria and standards					x
3	Graphic communication skills: Ability to formally express each stage of planning and design process with various techniques including hand-drawings and information technologies to create appropriate presentations.					X
4	Research skills: Ability to obtain relevant information, assessment, recording and apply during the architectural processes					x
5	Stylistic composition systems: Understanding the creation, development and implementation processes of two and three dimension design, architectural composition, and visual perception and organization in urban design					x
6	Design skills: Ability to apply basic architectural principles in building, interiors and layout					x
7	Team work skills: Ability to enhance individual skills and take on different roles through identification and work as a member of the design team , in conjunction with other environments					x
8	Western architecture: Comprehending the rules of architecture, landscape and urban design, and also the climatic, technological, socio-economic and cultural factors which shape these principles					
9	Non-western architecture: Comprehending the principles of West architecture in non-western landscape and urban design as well as climatic, technologic, social - economic and other factors shaping these principles.					
10	National and regional architecture: Comprehending the effects of national traditions and historical heritage in national and vernacular architecture including local architecture, landscape and urban design.					
11	Architectural conservation and restoration: Having awareness of the protection of historical areas as well as the basic principles for the documentation of historical monuments and buildings for the preparation of their restoration projects.					
12	The ability of utilization from the examples: The ability to discover examples that are appropriate to program and form, concerning the composition and development of architectural and urban projects					x

13	Human behaviors: Understanding the interaction between physical environment and humans					x
14	Cultural differences: Comprehending the needs, behaviors, social and spatial patterns which characterize different cultures					
15	Accessibility: The ability to design buildings and establishments that are appropriate to the lives of various disabled people.					
16	Sustainable design: Conservation of artificial sources which also include naturally and culturally significant buildings and spaces, regarding the role of sustainability in the architectural and urban design decisions and understanding the formation of healthy buildings and establishments					x
17	Organizing an architectural building program: The ability to evaluate an architectural project with a comprehensive program, according to the design criteria concerning the client, user requirements, appropriate precedents, space and equipment requirements, site conditions and related laws and standards					x
18	Site Conditions: Ability to design settlement and building considering the natural and artificial properties of site					x
19	Structural systems: Understanding the behavioral principles of standing structures with vertical and horizontal forces and the development and application of contemporary load-bearing systems					x
20	Environmental systems: Understanding the basic principles of lighting, acoustics, air-conditioning and energy use in the design of environmental systems.					x
21	Life safety: Understanding the basic principles of life safety systems with an emphasis on the topic of emergency exits					
22	Building Shell Systems: Understanding the materials and basic design systems and correct application types of building shells					
23	Building service systems : Understanding the basic design principles of building service systems composing, plumbing , electric , vertical circulation, communication, security and fire safety systems					
24	Integration ability of building systems: Ability of evaluation, selection and integration of building service systems, environment, security and building shells in building design.					
25	Construction materials and applications: Understanding the principles and standards of building materials and components in terms of production and applications.					
26	Control of cost estimate: Within the framework of the design project; understanding the basics of finance, building economy and cost control					
27	Technical documentation: On the purpose of survey and construction; to have an ability of a complete and accurate technical description and documentation of the project					

28	The role of the customer in architecture: Understanding the responsibility of analyzing the requirements of the owner and customer as an architect					
29	Comprehensive design ability: Ability to improve and evaluate an architectural project with comprehensive program from graphical design to system details (Structural and environmental systems, security, etc.)					x
30	The administrative role of the architect: Understanding the duty of tasking, contracting, personnel management, consultants, project delivery methods and service agreement					
31	Architectural practice: Understanding issues of office organization, business planning, marketing, financial management, project management, risk mitigation, the basic principles of leadership and the profession of issues affecting the globalization, outsourcing, project delivery, expanding practice that support the profession of architecture					
32	Professional development: Understanding the role of the internship in professional development, and mutual rights and responsibilities of the employer and the trainee					
33	Leadership: Understanding the pioneer role of the architect in the process of project and design for contract administration					
34	Legal responsibilities: Understanding the legal responsibilities of the architect in building design and construction such as public health, safety and well-being, property rights, zoning and housing regulations, user rights which affect architectural studies					
35	Ethics and Professional Judgment: Understanding the ethical issues that are related to the professional adjudication in architectural design and practice					