General Information	Subject name, code and number of credits	ARCH211, Architectural Construction, 6 ECTS	
	Department	Architecture and Design Department	
	Program	Bachelors	
	Academic semester	Fall 2025	
	Subject teacher(s)	Sevinj Hasanova	
	E-mail:	Hasanova.sevinj@khazar.org	
	Lecture room/Schedule	Khazar University, Neftchilar campus	
	Counseling hours	At times agreed upon with students	
Prerequisites	-		
Language of instruction			
Type of subject (compulsory, elective)	Compulsory		
Textbooks and	1. "Building design and constr	ruction handbook", Frederick S. Merritt, editor,	
additional literature	Jonathan T. Ricketts, editor		
	•	concepts to design. Second Edition Malcolm	
	Millais. New York-2005		
		source book for architects and structural engineers.	
	Andrew W. Charleson - 2005	•	
	_	book" R. Chudley and R. Greeno, sixth edition,	
	2006 5 "Porry's Introduction To C	onetweeten Of Duddungs" Stanban Enquitt and	
	•	onstruction Of Buildings" Stephen Emmitt and	
	Christopher A. Gorse- First published 2005 by Blackwell Publishing Ltd 6. "Building Construction Illustrated" Francis D.K. Ching/ fifth edition-2014		
	7. Vitruvius: "The ten books on architecture" by Vitruvius Pollio -1914		
	8. Muradov V., Səmədov R. Birmərtəbəli sənaye binalarının memarlıq		
	konstruksiyaları. Bakı, 2015.		
	9. Muradov V.H. Mülki binaların memarlıq konstruksiyaları. Bakı, 2013.		
	10. Казбек-казиев З. А. Архитектурные конструкции. М., 2006		
	11. Маклаковой Т. Г. Конструкции общественных зданий, М., 2000		
Course description	Construction is a general term meaning the art and science of forming objects, systems, or organizations. Structural elements are taken into account in the design of architectural buildings according to their purpose. Single module system. By developing the structural perception of architecture students during design, mastering knowledge about constructive connections and constructive elements, which are an integral element of architecture, and applying free and correct solutions in constructive requirements at the design stages.		
Course objectives	The course objectives for architectural design vary based on the specific program and educational institution. However, here are common objectives that many architectural design courses aim to achieve:		
	constructions along with a general design methodolog	and practical knowledge on the use of modern traditional and advanced technologies during the traditional and in this process to get acquainted and rules and constructive elements of the project requirements.	

		ability to think creatively	y, critically, and spatially, enabling arious architectural challenges.	
	To impart know	ologies, enabling studen	e: materials, structural systems, and its to design structures that are	
Results of teaching (learning).	Studying the structural elements of a building and knowing the purpose and purpose of each architectural element is essential for every architectural student. Some of the key outcomes expected from a successful architectural design course are:			
	To get acquainte architectural cor	ed with the theoretical and astructions.	l practical foundations of	
	3. Construction tec materials, system	 Technology-based knowledge of construction, materials and structures. Construction technology includes various technical knowledge, methods, materials, systems and practices used in the design, construction and maintenance of buildings and other built structures. Understand the main structural systems, technologies and methods which are being used in building construction. Be familiar with the factors impacting the choice of the structural system; physical properties, cost and durability and materials characteristic responding to the sustainability issues. 		
	physical proper			
	 6. Ability to design architectural projects that meet both aesthetic and technical requirements. It involves the application of engineering principles, architectural practice, and advances in materials science, construction techniques, and sustainable practices to create safe, functional, efficient, and aesthetically pleasing spaces. 7. Concepts about the architectural - constructive elements of the building. Students acquire knowledge about architectural and structural elements (foundations, walls, columns, beams and girders, trusses, arches and covering panels, etc.) to be considered during design, and become free, confident and accurate in space planning, structural integrity, material selection during design, they will be able to find solutions. 			
Teaching methods	Lecture		students about the topic.	
-	Group discussion			
Practical Practical exercises an		Practical exercises are d	actical exercises are done to improve the knowledge and	
	exercises skills students have learned during lectures. Analysis of a Discussions are held periodically based on question-and answer, quick-solve small-scale tasks to understand the state of the stat		<u> </u>	
		extent to which students have mastered the topics theoretically and at what level they can practically perform the task given by thinking like an architect.		
Assessment	Components	Date/deadline	Components	
1 199099HICHU	Presentation	Daw waumic	10	
	(research)		10	
	(research)			

Attendance	5
Activity	15
Midterm exam	30
Final exam	40
Conclusion	100

Rules (Teaching policy and conduct)

Lecture, seminar, presentation

The student should search based on the topics surrounding the topic, and the topic should be analyzed in depth. A presentation should be prepared based on the conducted research. Sources cited in the analysis should be listed accordingly in the reference list. The presentation should be in the Word program, the tasks related to the project should be prepared in the AutoCad program or with hand graphics.

The assignment must be submitted by the student.

The purpose of this task is to form and develop the skills of future architects to conduct small studies, design and present architectural and construction projects taking into account the main architectural elements and basic architectural solutions to be considered during the design.

Duration:

Presentations must be made during each training session. Each student is given 10 minutes for the presentation.

Midterm exam

Test questions and graphic assignment based on the topics taught during the semester.

Exception: If the student informs the dean of the faculty in advance that he/she will not be able to participate in the exam due to valid reasons (related to family status and health) or submits any related documents (application or reference), only in this case the student can take the exam again.

Attendance

The maximum score for class attendance is 5 points. The number of points is based on: if the student attends all classes in the subject during the semester, he is given 5 points. If the total number of lessons missed during the semester for the subject exceeds the prescribed limit of 25% (illness, family situation, etc.), the student is not admitted to the exam session and a certain decision is made about it.

The procedure for completing the course

The student's knowledge is evaluated with a maximum of 100 points. an overall success rate of 60% and above is considered to complete the course. A student with a deficit can take this subject again in the next semester or the next year.

Violations of examination rules

During mid-term and final exams, students are prohibited from disrupting the course of the exam and making transfers. The exam work of the student who does not follow this rule will be canceled and the student will be excluded from the exam with a grade of 0 (zero).

Rules of conduct of the student

A student is not allowed to violate the University's internal disciplinary rules and use a mobile phone.

Note: The topic will be held in the form of lectures and exercises. In each lesson,

students will be given theoretical information about design theory, types of buildings and facilities, types of buildings, etc. - architectural construction and architectural elements in project design, and discussions will be held on the topic. - In each class, the student will be required to present research and design according to the given task, and based on this, the student will be evaluated with 1 point each time, and at the end of the semester (assignment), he will receive a full point - 15 points as an activity score. Otherwise, the student will be given 0 points for each unprepared class day.

		unprepared class day.			
	Table (subject to change)				
Week	Date	Topics of the subject	Tutorial/Assignments		
1.		General information about buildings and structures. 1. Classification of buildings according to their purpose. 2. Basic requirements for buildings. 3. Structural elements of the building rules of attachment to division axes.	1. "Building design and construction handbook" Frederick S. Merritt, editor, Jonathan T. Ricketts, editor.—6th ed.2001 / page 1.4 to 2.32 2."Building construction handbook" Sixth edition,R. Chudley		
	Questions and discussions based on the lecture topic. Research assignment.	and R. Greeno -2006 page 2 to 60			
2.		Review and discussion of research and obtained data based on the lecture topic and assigned task. Work on the project.	Practical work		
3.		The main structural elements of buildings and their purpose. 1. Basic constructive elements 2. Carrier and protective structures. 3. To the load-carrying basket, which ensures the spatial rigidity and stability of the building.	1."Building Structures" From concepts to design. Second Edition Malcolm Millais. New York-2005 page 1 to 12		
		4. Modern construction methods affecting the building and its constructive solution importance Verification of knowledge and research based on lecture and assignment material.	2."Building Construction Illustrated" Francis D.K. Ching fifth edition- 2014 / part 1÷2.		

8.	Drawing the structural scheme of load-bearing walls. Midterm exam	2014 / part 5.
7.	Walls and separate supports. 1. Classification of walls, requirements for them. 2. Masonry systems of walls. Architectural and structural elements of the building. 3. Deformation seams. Also supports. Finishing works of wall surfaces. 4. Balcony, loggia, bay windows	1."Barry's Introduction To Construction Of Buildings" Stephen Emmitt and Christopher A. Gorse- First published 2005 by Blackwell Publishing Ltd. page 126 to 248 2."Building Construction Illustrated" Francis D.K. Ching fifth edition-
6.	Verification of knowledge and research about the types of foundations and their basic requirements. Preparation of the cross-section of the project, showing the constructive elements.	Practical work
3.	Verification and discussion of acquired knowledge about structural elements that ensure spatial rigidity and stability of the building, load-bearing and protective structures.	Stephen Emmitt and Christopher A. Gorse- First published 2005 by Blackwell Publishing Ltd. page 14 to 70 3."Building Construction Illustrated" Francis D.K. Ching fifth edition- 2014 / part 3.
5.	Basics and foundations. 1. General information about soils. 2. Basic requirements for the foundations. 3. Natural and artificial bases. 4. Types of foundations, constructions. 5. Waterproofing of foundations and basement walls.	1."Building construction handbook" Sixth edition,R. Chudley and R. Greeno -2006 page 183 to 205 2."Barry's Introduction To Construction Of Buildings"
4.	Drawing floor plans taking into account the main structural elements of the building.	Practical work

9.	1. Types of coating 2. Beamed and be elements. 3. Rules for provious coverings. 4. Requirements Drawing of the company of the control of the	oors and Slabs ngs and their requirements. eamless coverings, structural iding sound insulation in for floors, their types. onstructional cover plan and ject according to its purpose.	1."Barry's Introduction To Construction Of Buildings" Stephen Emmitt and Christopher A. Gorse- First published 2005 by Blackwell Publishing Ltd. page 81 to 115 2."Building Construction Illustrated" Francis D.K. Ching fifth edition- 2014 / part 4÷6÷7.
10.	the main cor	ledge and presentations about astructional elements of ectural buildings.	Practical work
11.	1. General inform requirements for Sloping shapes o 3. General inform mansard. 5. Covers of pitcl 6. Structures of v roofs. Internal an of the survey.	nation about roofs, them. Types of roofs. f roofs. nation about attic and hed roofs, their details. rentilated and non-ventilated ad external the organization	1."Barry's Introduction To Construction Of Buildings" Stephen Emmitt and Christopher A. Gorse- First published 2005 by Blackwell Publishing Ltd. page 251 to 330 2. "Building Construction Handbook" R. Chudley and R. Greeno page 434.
12.		constructive elements and ns of the task project.	Practical work
13.	them. 2. Elements of states solution. 3. Constructions large elements.	Stairs. of stairs, requirements for airs, their constructive of stairs with small and . Ramp, lift, escalators.	 "Building Construction Illustrated" Francis D.K. Ching fifth edition-2014 / part 9. "Building Construction Handbook" R. Chudley and R. Greeno page 597.
	Construction	onal solution of stairs.	3."Barry's Introduction To Construction Of Buildings" Stephen Emmitt and Christopher

		A. Gorse- First published 2005 by Blackwell Publishing Ltd. page 453 to 519
14.	Constructional solution and drawing of the assignment project based on the type and purpose of the staircase	Practical work
15.	Doors and windows. 1. Requirements for windows. 2. Window elements of different materials. 3. Structural details of windows. 4. Types and structural details of doors. Constructive details of doors and windows.	1."Building Construction Illustrated" Francis D.K. Ching fifth edition- 2014 / part7÷8. 2. "Building Construction Handbook" R. Chudley and R. Greeno page 339 ÷ 369. 3."Barry's Introduction To
		Construction Of Buildings" Stephen Emmitt and Christopher A. Gorse- First published 2005 by Blackwell Publishing Ltd. page 335 to 475
	Final exam	

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Memarlıq və dizayn departamentinin rəhbəri