

<b>Main information</b>	Name of subject, code and the number of credits	ARCH210, Typology of Buildings and Structures, 6 ECTS
	Department	Architecture and design department
	Program (bachelors, master)	Bachelors
	Academic semester	Fall 2025
	Teacher	Mustafayeva Aygun
	E-mail:	aygun.mustafayeva@khazar.org
	Lecture Room/Table	Neftchiler campus,
	Counseling hours	At times agreed upon with students
<b>Prerequisites</b>	-	
<b>Language of instruction</b>	English	
<b>Type of subject (compulsory, elective)</b>	Elective	
<b>Lessons and additional literature</b>	<ol style="list-style-type: none"> <li>1. Neufert, E. Architects' Data. 4th Edition. Wiley-Blackwell, 2012.</li> <li>2. Littlefield, D. (ed.). Metric Handbook: Planning and Design Data. 3rd Edition. Routledge, 2018.</li> <li>3. Ching, F. D. K. Architecture: Form, Space, and Order. 5th Edition. Wiley, 2014.</li> <li>4. Kuhn, T. Building Typology: An Introduction to the Typological Classification of Architecture. Birkhäuser, 2018.</li> <li>5. Shvidkovsky, D. O. General Typology of Buildings and Structures. Moscow: Arkhitektura-S, 2009.</li> <li>6. Shahbazov, H. Typology of Architecture (Textbook). Baku: ADNSU Press, 2015.</li> <li>7. Shirokov, V. Typology of Architecture: General Patterns and Features. Moscow: Stroyizdat, 2007.</li> <li>8. United Nations Habitat. Planning and Design for Sustainable Urban Mobility. UN-Habitat, 2013.</li> </ol>	
<b>Description of the course</b>	<p>This course offers an in-depth study of architectural building and structure typologies, focusing on design principles, planning strategies, and functional requirements across a variety of architectural forms. Students will examine the evolution, classification, and contemporary approaches to residential, public, cultural, recreational, healthcare, administrative, and transportation buildings. Emphasis is placed on critical analysis, sustainable design practices, and the application of architectural standards, with learning reinforced through lectures, plan analysis, and practical seminar-based design assignments.</p>	
<b>Course objectives</b>	<ul style="list-style-type: none"> <li>• Introduce students to the fundamental principles of building typologies and their significance in architectural practice.</li> <li>• Analyze the spatial, functional, and structural characteristics of different building types in both local and international contexts.</li> <li>• Develop the ability to apply planning principles and design standards to a wide range of architectural projects.</li> <li>• Strengthen skills in architectural drawing, AutoCAD-based plan development, and typological comparison of buildings.</li> </ul>	

	<ul style="list-style-type: none"> <li>Encourage the integration of sustainability, universal design, and modern technologies (BIM, smart building systems) into typological design.</li> </ul>		
<b>Results of teaching.</b>	<p><b>In the process of general teaching of the subject, students:</b></p> <p><b>They should know:</b></p> <ul style="list-style-type: none"> <li>Classification and design principles of major building typologies (residential, educational, cultural, healthcare, administrative, commercial, and transportation).</li> <li>Functional and spatial requirements for different building types according to contemporary standards and regulations.</li> <li>Influence of environmental, cultural, and social factors on building typology.</li> <li>Current global trends in architecture, including energy efficiency, sustainable design, and smart building technologies.</li> </ul> <p><b>They should be able to:</b></p> <ul style="list-style-type: none"> <li>Analyze and evaluate existing building plans based on functional, structural, and aesthetic criteria.</li> <li>Develop schematic designs and architectural drawings for selected building typologies using AutoCAD.</li> <li>Apply typological knowledge to propose design solutions that address user needs, environmental context, and technical standards.</li> <li>Critically compare international and local examples of building typologies and adapt best practices to their own design projects.</li> <li>Present and defend design proposals effectively in both written and graphical form.</li> </ul>		
<b>Teaching methods</b>	Lecture	+	
	Group discussion	+	
	Practical tasks	+	
	Analysis of a practical issue	+	
<b>Marks</b>	<b>Components</b>	<b>History/last term</b>	<b>Percent (%)</b>
	<b>Attendance</b>		5
	<b>Presentation 1</b>		10
	<b>Activity</b>		15
	<b>Presentation 2</b>		10
	<b>Midterm exam</b>		25
	<b>Final exam</b>		35
	<b>Final</b>		100
<b>Rules (Teaching policy and behavior)</b>	<p><b>Lecture, seminar, presentation</b></p> <p>Lectures on Typology of Buildings and Structures will be delivered by the course instructor. Based on the topics covered, students will be assigned individual and practical tasks. During seminar-practice sessions, students are expected to analyze building types, discuss planning solutions, and present their ideas clearly, supported by architectural arguments and references to standards. Students are also encouraged to develop independent research skills</p>		

by preparing drawings, analyses, or presentations related to building typologies and presenting them in class.

To achieve this, students are expected to:

1. Carefully review the questions and design tasks proposed for discussion in each seminar session;
2. Study the relevant lecture materials in detail and connect them with practical applications;
3. Read and analyze the recommended literature and international standards on building typologies;
4. Prepare brief responses or schematic drawings for each seminar question;
5. Develop practical skills by completing AutoCAD-based exercises, schematic design tasks, and case-study analyses assigned on the topic;
6. Actively participate in discussions, respect diverse viewpoints, and contribute constructively to group work.

### **Assessment**

It will be evaluated in the midterm (25 points) and final (35 points) exam.

The project must be submitted by the student. The purpose of this assignment is to teach future designers the skills of presenting, doing a little research in a short period of time, and designing.

The presentation 1 (10 points) must be submitted during the months of September and October before the midterm exam. No additional time is allowed to submit after the last week of classes.

The presentation 2 (10 points) must be submitted before the final exam, during the months of November and December. No additional time will be granted for submission after the last week of classes.

Note: Practical assignments must be prepared individually by the student using PowerPoint.

**Exception:** If the student informed the dean of the faculty in advance that he/she will not be able to participate in the handover phase of the work due to valid reasons (related to family situation and health), or if he/she has submitted any related document (application or reference), only in this case the student will be able to attend after the deadline. can hand over the work.

### **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 him.

### **Exams:**

The mid-term exam will be held on subjects taught in September and October

	<p>(after the project is handed over), and the final exam will be held on subjects taught in November and December (after the project is handed over).</p> <p><b>The procedure for completing the subject.</b> 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.</p> <p><b>Rules of conduct of the student.</b> A student is not allowed to violate the University's internal disciplinary rules and use a mobile phone. It is forbidden to violate the educational process and ethical rules during the lesson. Unauthorized discussions between students are also prohibited during class.</p>
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#### Chart

Week	History	Topics of the subject	Lessons/Tasks
1.		Design Principles of Residential Buildings	1. Presentation №1 2. Ching, F. D. K. Architecture: Form, Space, and Order. 5th Ed., 2014. 3. Neufert, E. Architects' Data. 4th Ed., 2012. Page 50-150
2.		Low-Rise Residential Buildings	1. Presentation №2 2. Kuhn, T. Building Typology: An Introduction to the Typological Classification of Architecture. Birkhäuser, 2018. Page 45-90 3. F.M. Hüseyinov, R.R. Ağazadə, M.N. Mikayılova. Şəhərsalma nəzəriyyəsi. Bakı, 2008 Page 75-120
3.		High-Rise Residential Buildings	1. Presentation №3 2. Shvidkovsky, D. O. General Typology of Buildings and Structures. Moscow: Arkhitektura-S, 2009. Page 200-250
4.		Planning Principles of Public Buildings	1. Presentation №4 2. United Nations Habitat. Planning and Design for Sustainable Urban Mobility. UN-Habitat, 2013 Page 80-130
5.		Hotels and Recreational Facilities	1. Presentation №5 3. Ernst & Peter Neufert — Architects' Data (4th English ed., Wiley, 2012) Page 171–173
6.		Preschool Institutions: Nurseries and Kindergartens	1. Presentation №6 2. Mark Dudek — Kindergarten Architecture: Space for the Imagination (2nd ed, Routledge,

			2013/2014) Page 1-25
7.		<b>Midterm exam</b>	
8.		General Education Institutions: Schools, Colleges, and Lyceums	<ol style="list-style-type: none"> <li>1. Presentation №7-8</li> <li>2. Neufert, E. Architects' Data, 2012. Page 300-350</li> <li>3. Shirokov, V. Typology of Architecture: General Patterns and Features, 2007. Page 180-230</li> </ol>
9.		Performance Venues and Socio-Cultural Institutions	<ol style="list-style-type: none"> <li>1. Presentation №9</li> <li>2. Shahbazov, H. Typology of Architecture, 2015. Page 130-180</li> </ol>
10.		Sports Facilities	<ol style="list-style-type: none"> <li>1. Presentation №10</li> <li>2. Littlefield, D. Metric Handbook, 2018. Page 400-450</li> <li>3. Shvidkovsky, D. O. General Typology of Buildings and Structures, 2009. Page 250-300</li> </ol>
11.		Commercial and Food Service Facilities	<ol style="list-style-type: none"> <li>1. Presentation №11</li> <li>2. United Nations Habitat, Planning and Design for Sustainable Urban Mobility, 2013. Page 130-180</li> </ol>
12.		Healthcare and Preventive Care Institutions	<ol style="list-style-type: none"> <li>1. Presentation №12</li> <li>2. Health Building Note 00-01: General design guidance for healthcare buildings. (Department of Health/NHS England, March 2014) Page 29-32</li> </ol>
13.		Administrative and Office Buildings	<ol style="list-style-type: none"> <li>1. Presentation №13</li> <li>2. Shirokov, V. Typology of Architecture: General Patterns and Features. Moscow: Stroyizdat, 2007. Page 300-350</li> </ol>
14.		Transportation Structures: Parking Facilities and Garages	<ol style="list-style-type: none"> <li>1. Presentation №14</li> <li>2. Anthony P. Chrest (ed.). Parking Structures: Planning, Design, Construction, Maintenance and Repair (3rd ed.). Springer, 2007 Page 7–36</li> </ol>
15.		Railway Stations and Airports	<ol style="list-style-type: none"> <li>1. Presentation №15</li> <li>2. Network Rail. Station Design Principles for Network Rail. Network Rail, 2019. Page 12-29</li> <li>3. FAA. Advisory Circular (AC) 150/5360-13A: Airport Terminal Planning. 2018. Page 2-7</li> </ol>
		<b>Final exam</b>	

**Təsdiq edir:** Dos. Abbasova Ş.A.  
Memarlıq və dizayn departamentinin müdiri