Identification	Subject	DSN417, Ergonomics, 6 ECTS	
	Department	Architecture and design department	
	Program (Undergraduate,	Undergraduate	
	Graduate)		
	Term	Fall 2025	
	Instructor	Mustafayeva Aygun	
	Email:	aygun.mustafayeva@khazar.org	
	Classroom/hours	Neftchiler campus	
Prerequisites	-	-	
Language	English	English	
Compulsory/Elective	Elective	Elective	
Textbooks and course	1. Teaching of ergonomics i	1. Teaching of ergonomics in the design environment V.F. Runge,	
materials	Y.P. Manusevich. Moscow. "Architecture - S". 2008		
	2. Ergonomics and Labor Processes, Z.A. Malayev, Azerbaijan		
	State University of Economics, Ministry of Education of the		
	Republic of Azerbaijan. Baku-2018.		
	3. Advances in Ergonomics In Design, Usability & Special		
	Populations Part II. 2001		
	4. Ergonomics and Design A	A Reference Guide. 2006 Allsteel Inc.	
Course description	This course is designed to familiarize students with the essence, purpose, and objectives of ergonomics, as well as its focus on the study of the human factor.		
	The primary function of ergonomics is to improve performance by enhancing employee health and occupational safety. This is achieved by organizing work in accordance with the physical and psychological characteristics of people, allowing them to work efficiently, safely, and in good health.  It ensures that tools, equipment, and workplaces are designed to meet the needs and abilities of the people who use them.		
Course objectives	Ergonomics is a scientific discipline that studies the functional capabilities of humans in both work and everyday life. It defines the requirements for creating optimal conditions that ensure effective daily activity and highly productive work.  The course is designed to familiarize students with the essence, purpose, and objectives of ergonomics, as well as its focus on studying the human factor.  The primary function of ergonomics is to enhance performance by improving employee health and occupational safety. This is achieved by organizing work in accordance with the physical and psychological characteristics of people, enabling them to work efficiently, safely, and in good health.		

Final exam  Final  Lecture, seminar, present the sectures on ergonomics and assignment to programs. Tasks will be addition to discussing the	ntation will be given by the subjects will be processed in reperformed based on the select solution of the tasks with the reference knowledge into	levant design ected topic. In ne teacher, the						
Final exam  Final  Lecture, seminar, present Lectures on ergonomics a lectures and assignment programs. Tasks will be	ntation will be given by the subjects will be processed in reperformed based on the selections.	35 100 t teacher, and levant design ected topic. In						
Final exam  Final  Lecture, seminar, present Lectures on ergonomics lectures and assignment.	ntation will be given by the subjects will be processed in re	35 100 t teacher, and levant design						
Final exam Final Lecture, seminar, presen Lectures on ergonomics	ntation will be given by the subjec	35 100 t teacher, and						
Final exam Final Lecture, seminar, presen	ntation	35 100						
Final exam Final		35						
Final exam	TBA	35						
ū	TBA							
		15						
Activity		1.5						
Midterm exam	TBA	30						
Assignment		15						
Attendance		5						
		(%)						
Methods	Date/deadlines	X Percentage						
Simulation								
Lecture								
<u> </u>		X						
		X						
<u> </u>								
• Apply methods for determining the ratio between the static and dynamic dimensions of the human body and technical devices;								
				= =	design, and			
			• Evaluate the ergonomic safety of design and architectural proj					
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They should know:  • The methodological foundations of ergonomics;  • General information on ergonomic design;  • The concept of the "human–machine–environment" connection;  • Interactions between external and internal elements within the "human–machine–environment" system;  • Methods of performing ergonomic analysis;  • Ergonomic normative rules and standards;  • Application of ergonomic norms in the fields of design and architecture.								
			utcomes In the process of studying this subject, students are experience acquire the following knowledge and skills:					
			designed to match the needs and abilities of the people who use them.  In the process of studying this subject, students are expected to					
				systems, and environment usability. It ensures that to designed to match the need them.  In the process of studyin acquire the following know:  They should know:  The methodological four General information on  The concept of the "hum Interactions between ext "human—machine—enviror  Methods of performing General informative rue.  They should be able to:  Evaluate of ergonomic architecture.  They should be able to:  Evaluate the ergonomic understand the factors that develop collaborative appure.  Apply methods for deter dynamic dimensions of the Analyze the organization display tools, visual information production facilities, and Case analysis  Group discussion  Lecture  Simulation  Methods  Attendance  Assignment  Midterm exam  Activity	In the process of studying this subject, students are acquire the following knowledge and skills:  They should know:  • The methodological foundations of ergonomics; • General information on ergonomic design; • The concept of the "human—machine—environment" • Interactions between external and internal elements "human—machine—environment" system; • Methods of performing ergonomic analysis; • Ergonomic normative rules and standards; • Application of ergonomic norms in the fields of desi architecture.  They should be able to: • Evaluate the ergonomic safety of design and architectunderstand the factors that integrate ergonomics with develop collaborative approaches; • Apply methods for determining the ratio between the dynamic dimensions of the human body and technical • Analyze the organization of the work environment, it display tools, visual information systems, light—color production facilities, and environmental factors.  Case analysis  Group discussion  Lecture  Simulation  Methods  Date/deadlines  Attendance  Assignment  Midterm exam  TBA			

course.

It will be evaluated in the midterm (30 points) and final (35 points) exam.

The project must be submitted by the student. The project 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.

Homework assigned to the student will be checked each lesson and 1 point will be given for each completed task. At the end of the semester, this will be evaluated as a minimum of 0 and a maximum of 15 points.

**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 (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).

# The procedure for completing the subject.

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.

### Rules of conduct of the student.

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.

## **Tentative Schedule**

Week	Date	Topics	Textbook/Assignments
1.		Basics of ergonomics.	Runge & Manusevich (2008),
			s. 1–25; Malayev (2018), s. 5–

		120
		20 Presentation №1
		Presentation Nº1
2.	Incense stages of ergonomics.	Runge & Manusevich (2008),
2.	Excerpt from the field.	s. 26–48; Malayev (2018), s.
	The effect is the study of the region.	21–35
		Presentation №2
3.	Determinants of ergonomic requirements	Ergonomics and Design
		(2006), s. 1–30; Malayev
		(2018), s. 36–50 Presentation
		<b>№</b> 3
4.	Ergonomic assessments of workplace	Runge & Manusevich (2008),
	parameters	s. 49–72; Malayev (2018), s.
		51–70
		Presentation №4
5.	Ergonomics and the provision of different	Ergonomics and Labor
	types of environments.	Processes (2018), s. 71–95;
		Advances in Ergonomics
		(2014), s. 15–35 Presentation
		№5
6.	Tools of ergodesign in environmental	Runge & Manusevich
	planning.	(2008), s. 73–100;
	Ergonomic program for residential	Ergonomics and Design
	environment design.	(2006), s. 31–55.
		Presentation №6
		Repetition and discussion of
7	NA: 14	topics.
7.	Midterm exam	F : 1D :
8.	Tasks of ergodesign in environmental	Ergonomics and Design
	design.Ergonomic program of living	(2006), s. 56–95; Malayev
	environment design. The main equipment	(2018), s. 96–120 Presentation
	elements that ensure the completeness of the	№7-8
	environment. Ergonomic requirements for	
	furniture. Habitat equipment. The object	
	complex of the living environment.	
	Ergonomic assessment of kitchen	
	equipment.Bathroom equipment.Designing the environment for the child.	
9.	Furnishing of interiors of public buildings.	Runge & Manusevich (2008),
9.	Organization of the workplace and	s. 101–125; Malayev (2018),
	arrangement of furniture in the office.	s. 101–123, Marayev (2018), s. 121–145 Presentation
	Equipping school and pre-school institutions	S. 121–143 Presentation No  9
	with equipment.	3127
10.	Ergonomics of the living environment of the	Advances in Ergonomics
10.	elderly and disabled.	(2014), s. 36–65; Malayev
	ordorry and around.	(2011), 5. 50 05, Watayev

	Ability to work. Types and causes of	(2018), s. 146–170
	disability.	Presentation №10
	Ergonomics requirements for the urban	
	environment, taking into account the needs of	
	the elderly and the disabled.	
	Organization of a comfortable environment	
	for disabled children.	
11.	Ergonomic aspects of environment design and	Runge & Manusevich (2008),
	perception.	s. 126–150; Ergonomics and
	Visual environment and vision physiology.	Design (2006), s. 96–120
		Presentation №11
12.	Ergonomics of perception of environmental	Advances in Ergonomics
	objects and systems.	(2014), s. 66–88; Runge &
	Interaction of perception and information.	Manusevich (2008), s. 151–
	The role of "gestalts" in perception processes.	170
	Perspective "stereotypes".	Presentation №12
	Visual distortions.	
13.	Formation of architectural prototypes as a	Ergonomics and Labor
	means of environment recognition.	Processes (2018), s. 171–190;
	Image perception problem in architecture.	Runge & Manusevich (2008),
		s. 171–185
		Presentation №13
14.	Ergonomics and educational system	Advances in Ergonomics
	environment design.	(2014), s. 89–105; Malayev
		(2018), s. 191–210
		Presentation №14
<b>15.</b>	Differentiation of conditions in the	Runge & Manusevich
	environmental system from the perspective of	(2008), s. 186–200;
	ergonomic design approach.	Ergonomics and Design
		(2006), s. 121–135
		Presentation №15
		Repetition and discussion of
<u> </u>		topics.
Final Exam		

Təsdiq edir: <u>Dos. Abbasova Ş.A.</u>

Memarlıq və dizayn departamentinin müdiri