

# Azerbaijan Technical University LMS (KOICA)

KOICA (Korea International Cooperation Agency) has been actively involved in supporting educational development and cooperation in various countries, including Azerbaijan. Azerbaijan Technological University (AzTU) has benefited from KOICA's initiatives, particularly in the field of educational development and capacity building. Through programs like the Learning Management System (LMS), KOICA has assisted AzTU in enhancing its technological infrastructure, enabling more effective and accessible learning for students and faculty. These efforts aim to improve the quality of education, foster international collaboration, and promote sustainable development in Azerbaijan's educational sector. The partnership between KOICA and AzTU represents a significant step in strengthening academic resources and bridging the gap between different educational systems.

# What is an LMS? (And Why Should You Care?)

A Learning Management System (LMS) is a software application. It handles the administration, documentation, tracking, and reporting of educational courses and training programs. The global LMS market is projected to reach \$40.95 billion by 2030. Key benefits include centralized learning, improved tracking, and reduced costs.



# Key Features of a Modern LMS

## Course Management

Create, organize, and deliver learning content.

## User Management

Enrollment, roles, permissions, and progress tracking.

## Communication

Forums, chat, messaging, .Enables real-time feedback.

# Procedure for Accessing the Electronic Education System

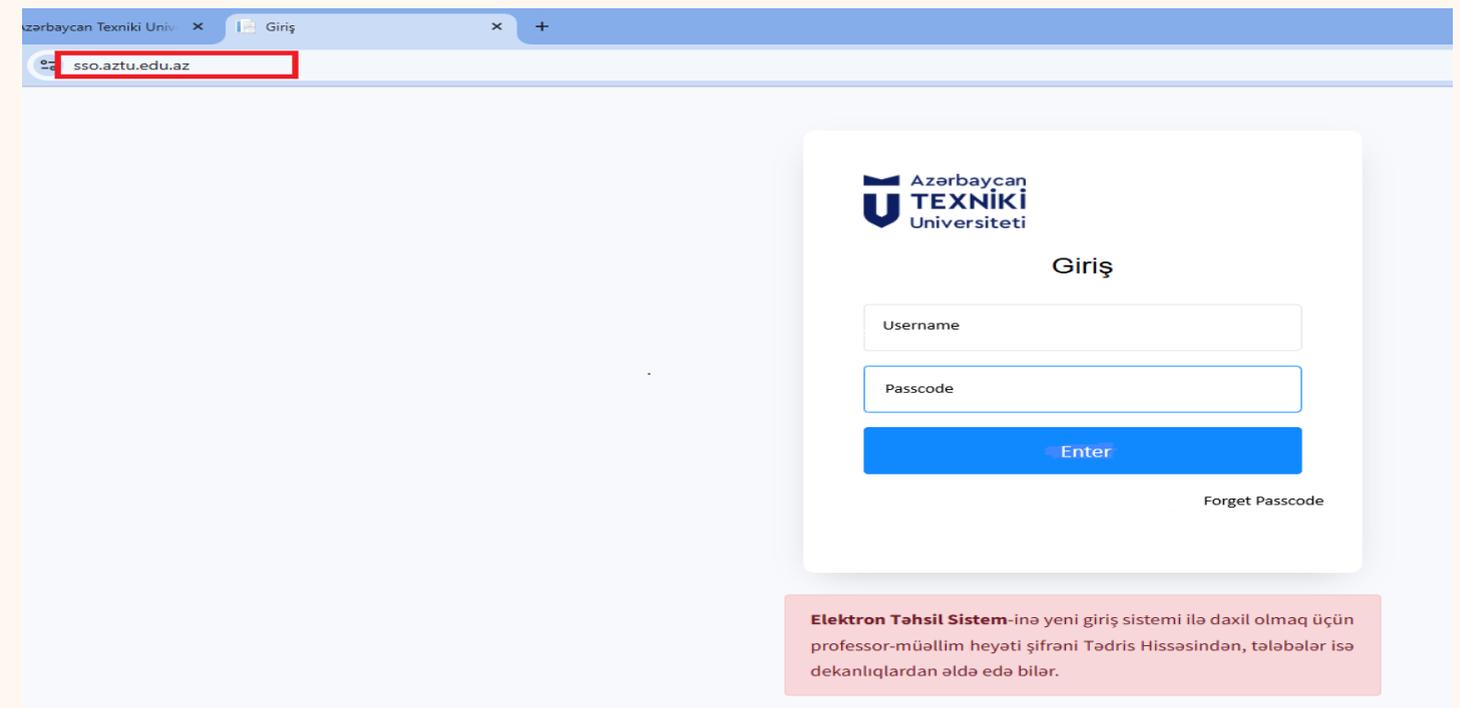
1 Website: <https://aztu.edu.az/az>

First, you need to access the official website [aztu.edu.az](https://aztu.edu.az). In the opened window, navigate to the KOICA section indicated within the marked frame in the image(Picture 1)



2 Website: <https://sso.aztu.edu.az/>

For direct access to the KOICA section, you can enter by specifying the website address listed below. The website link is provided above and shown in the image.



# User information

## Identifier

Enter the identifier provided by the admin in the first section. For teachers, the FIN code from the identity card is used.

## Password

The initial password is provided by the admin to teachers and students. Later, changing the password is required. Enter your password in the second field

## Forgot password

The third section shown in the image is intended for users who have forgotten their password. Anyone who has forgotten their password should click the button, enter their username (Identifier) in the opened window, and confirm it. In the next steps, information for updating the password will be sent to the corporate email address. ([example@aztu.edu.az](mailto:example@aztu.edu.az) or [example@student.aztu.edu.az](mailto:example@student.aztu.edu.az) )

Azerbaijan Texniki Universiteti

### Giriş

BRA9876 1

\*\*\*\*\* 2

Daxil ol

Şifrəni unudtum 3

Elektron Təhsil Sistem-ina yeni giriş sistemi ilə daxil olmaq üçün professor-müəllim heyəti şifrəni Tədris Hissəsindən, tələbələr isə dekanlıqlardan əldə edə bilər.

# Transition to Education

1

## Bachelor's Teacher

To access the courses taught bachelor's teacher program, You must click on the Bachelor's teacher option to proceed.

2

## Master's Teacher

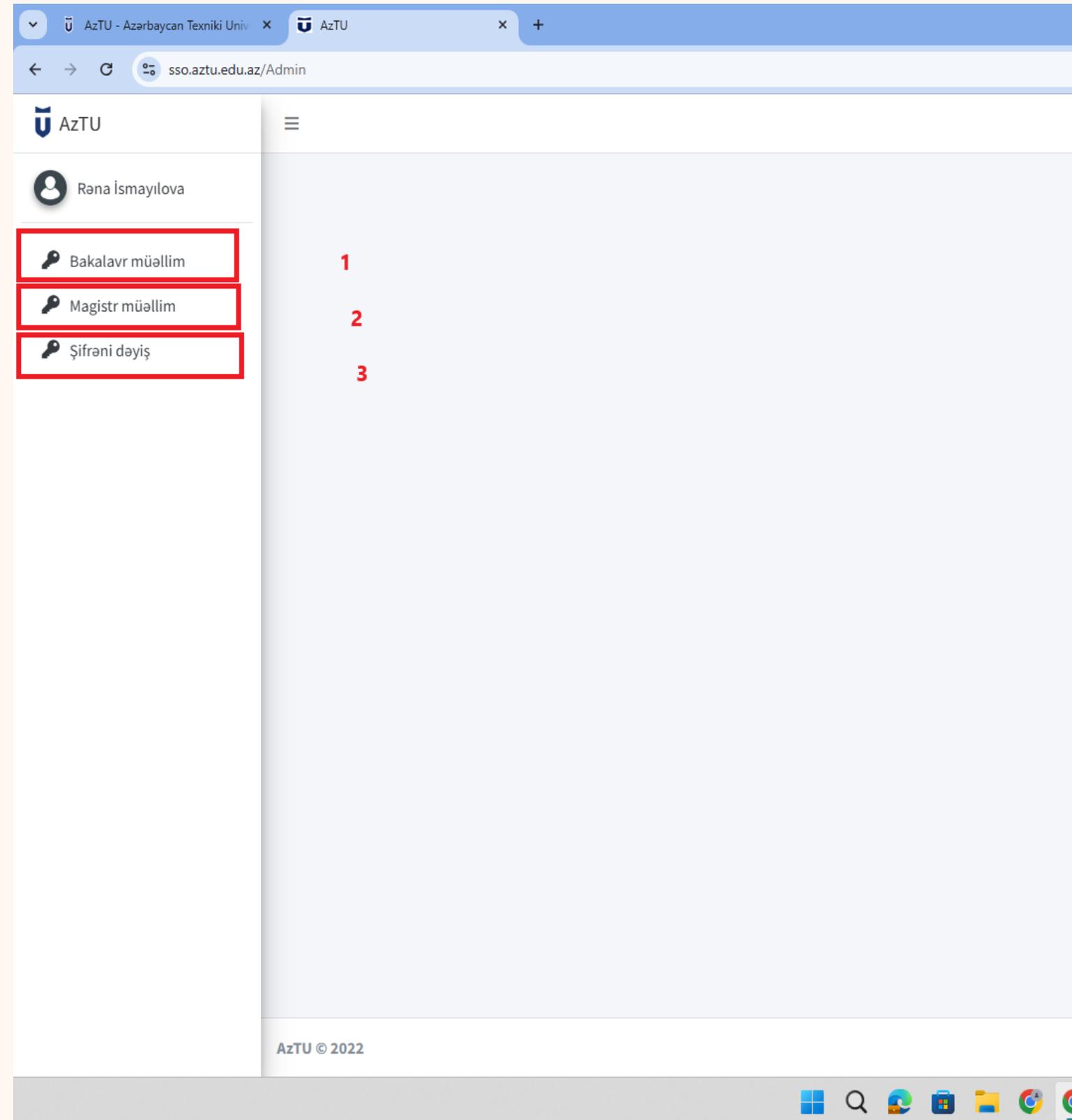
To access the courses taught bachelor's teacher program, You must click on the Master's teacher option to proceed.

3

## Change the password

By clicking on the Change Password option, you can set a new password in the opened window.

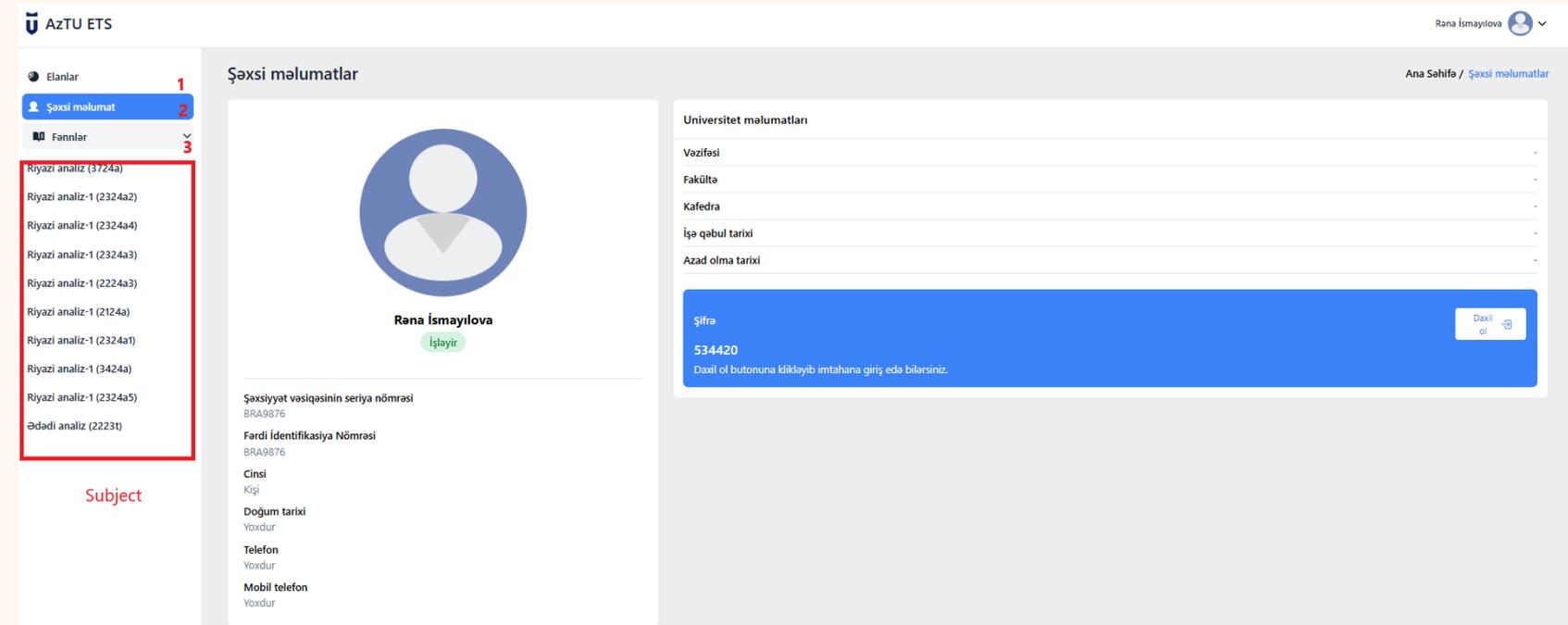
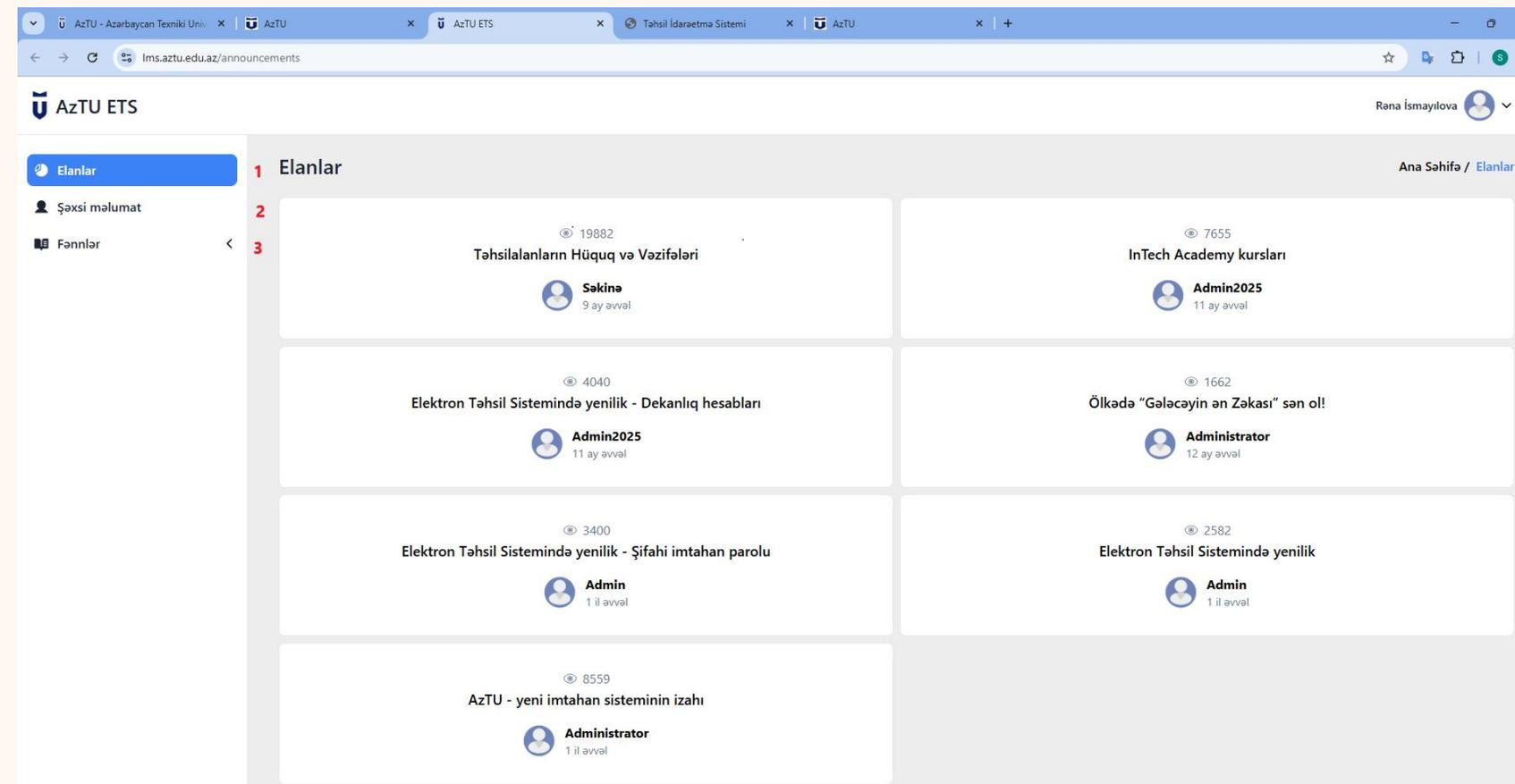
The new password must be at least 8 characters long and must include letters, numbers, and special characters.



The screenshot shows the AzTU Admin interface. The browser address bar displays 'sso.aztu.edu.az/Admin'. The user profile is 'Rəna İsmayılova'. The user menu is open, showing three options: 'Bakalavr müəllim' (1), 'Magistr müəllim' (2), and 'Şifrəni dəyiş' (3). The options are highlighted with red boxes. The footer of the page shows 'AzTU © 2022'.

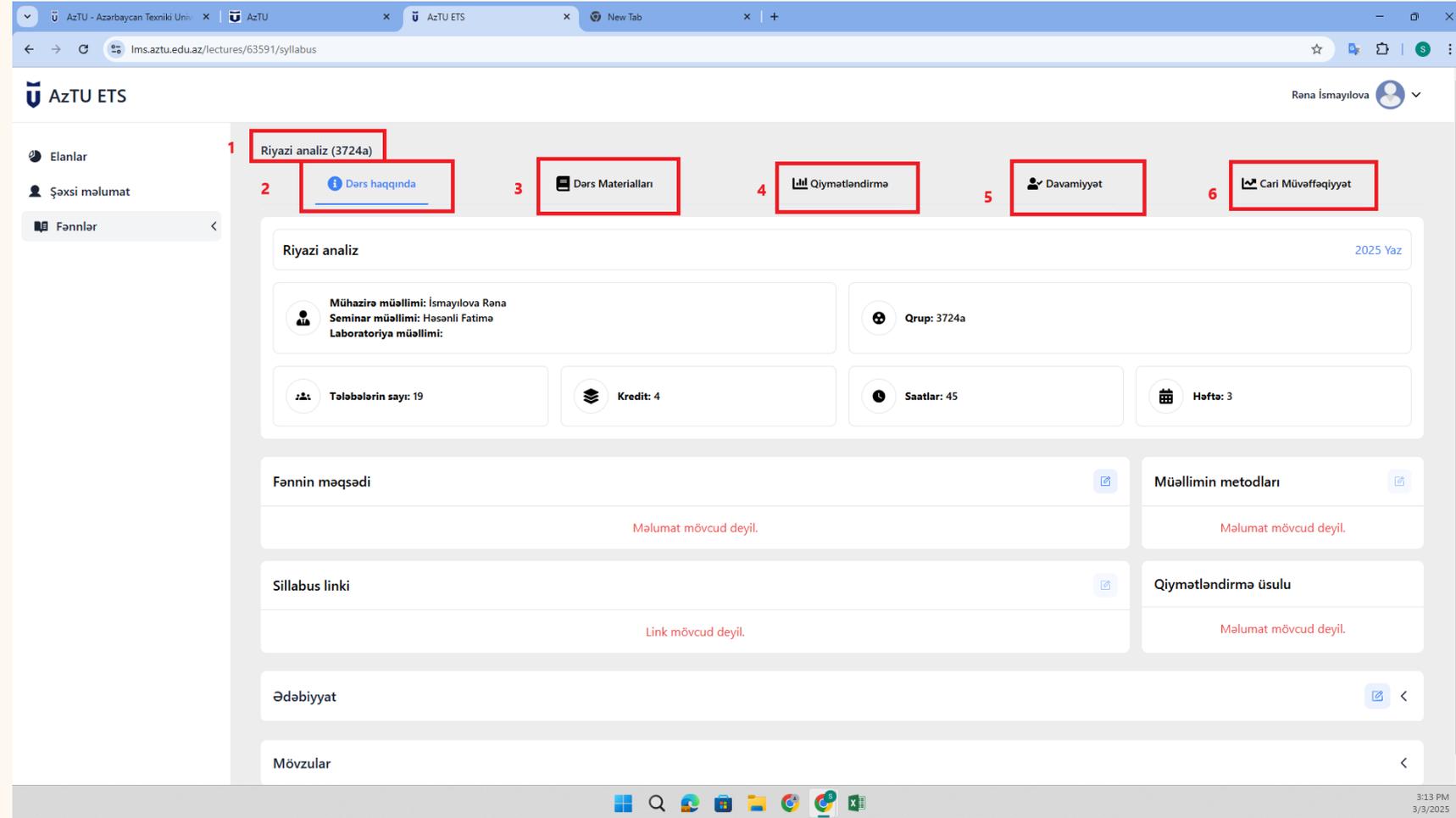
# Bachelor's lecturer User Manual

In the left menu section, the **1st** section displays announcements about opportunities and news provided by the university for teachers and students, the **2nd** section contains personal information, and in the **3rd** section, the names of the courses taught in the groups during the semester are listed. In the **first image**, you can view the announcements page, and in the **second image**, you can familiarize yourself with the personal information section.



# About of Subject

1. In the first section, the course name and group number are listed.
2. The second section is the course information.
3. The third section contains information about the course materials.
4. The fourth section contains the student evaluation section for the course.
5. The fifth section contains information about student participation in the course.
6. The fourth section contains the student evaluation section for the course.
7. The sixth section displays the total scores of the students during the semester.



# Course Information (Syllabus)

Course Objective – Information about the course is provided. It includes details about the knowledge and skills to be acquired in the taught course. By clicking the edit button, the information is saved.

In the teaching methods section, the teacher should specify the methods used to conduct the lesson.(Plays, Discussion Method, Problem-Based Learning, Project-Based Learning, Case Study Method, Collaborative Learning, Gamification)

Uploading the syllabus in PDF format.

Literature – The names of the literature used in the preparation of course materials, along with the publication year and the author's name, are specified.

Topic Section – After adding the syllabus link, the topics are automatically listed. If not, they can be edited manually.

Riyazi analiz-1 (2324a2)

Ders haqqında Ders Materialları Qiymətləndirmə Davamiyyət Cari Müvəffəqiyyət

Riyazi analiz-1 2025 Yaz

Mühazirə müəllimi: İsmaylova Rana  
Seminar müəllimi: İsmaylova Rana  
Laboratoriya müəllimi:

Qrup: 2324a2

Tələbələr sayı: 30 Kredit: 5 Saatlar: 45 Həftə: 3

Fənnin məqsədi Müəllimin metodları

"Riyazi analiz-1" fənninin məqsədi bakalavriat səviyyəsində təhsil alan tələbələr bilik və bacarıqlarını qoyulmuş məsələnin həll alqoritminin qurulması, onun effektivliyini artırılması istiqamətində təkmilləşdirmək.

Curriculum

Sillabus linki Qiymətləndirmə üsulu

<https://ims.aztu.edu.az/lectures/64831/materials/299839>

Qiymətləndirmə balı: 40  
Davamiyyət balı: 10  
İmtahan balı: 50

Ədəbiyyat

Mövzular

Haftə	Mövzu	Tədris metodları	Didaktik materiallar	Avadanlıq
1	Haqiqi ədədlər çoxluğu. Birdəyişənli funksiya anlayışı və onun bəzi xassələri. Ədədi ardıcılıq və onun limiti. Monoton və məhdud ardıcılığın limiti. e ədədi.			
2	2. Funksiyanın limiti və onun xassələri. Birtərəfli limitlər. Görkəmli limitlər. Sonsuz kiçik və sonsuz böyüyen funksiyalar. "O" və "o" simvolları. Sonsuz kiçik funksiyaların müqayisəsi. Əsas qeyri-müəyyənliklər.			
3	Nöqtədə funksiyanın kəsilməzliyi və onun xassələri. Kəsilmə nöqtələri və onların təsnifatı. Elementar funksiyaların kəsilməzliyi.Mürəkkəb və tərs funksiyanın kəsilməzliyi. Parçada kəsilməz funksiyaların xassələri (Koşi və Veyerstrass teoremləri).			
4	Funksiyanın törəməsi. Törəmənin həndəsi və mexaniki mənası. Diferensiallanma ilə kəsilməzlik arasında əlaqə. Diferensiallama qaydaları. Müəkkəb və tərs funksiyanın törəmələri. Parametrik şəkildə verilmiş funksiyanın törəməsi. Elementar funksiyaların törəmələri cədvəli.			
5	Funksiyanın diferensiallanması və diferensialı. Diferen-si-a-ın təqribi hesablamalara tətbiqi. Yüksək tərtibli törəmə və dife-rensiallar. Leybnis düsturu. Diferensial hesabının əsas teoremləri. (Roll, Laqranj) və Koşi teoremləri).			

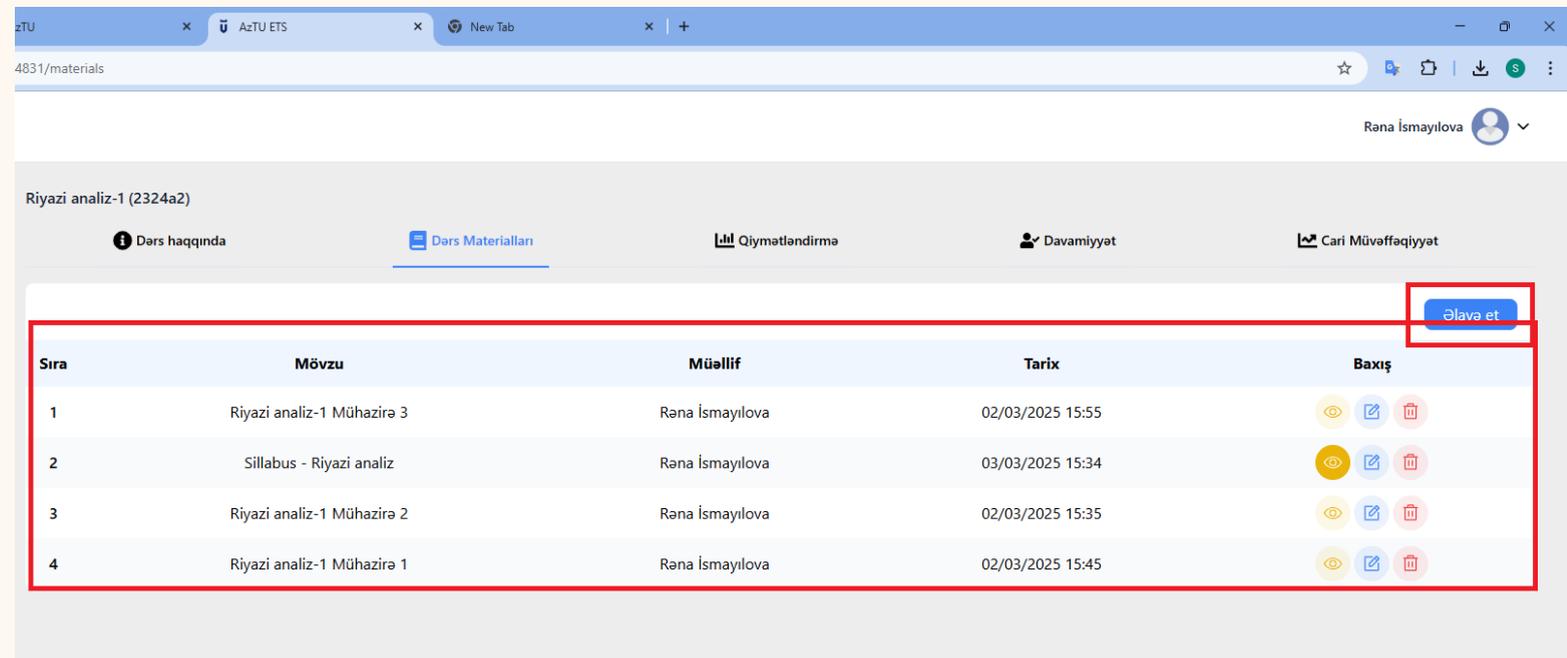
# Obtaining the syllabus link

In the Course Materials section, click the 'Add' button and specify 'Syllabus' in the Topic section. In the Description section, provide information about the syllabus. If the same course is taught in different groups, you can select the respective group number in the 'Share with Other Groups' section. The syllabus PDF file should be uploaded in the 'Add File' section. The syllabus link must be copied from the URL section.

The screenshot shows the 'Add Course Material' form in the AzTU LMS. The form is titled 'Müəllim Materialı' and is for the course 'Riyazi analiz-1 (2324a2)'. The 'Mövzu' (Topic) field is highlighted with a red box and contains 'Sillabus - Riyazi analiz'. The 'Açıqlama' (Description) field is also highlighted with a red box and contains '2025-ci ilin payız smestri üzrə tədris ediləcək Riyazi analiz fənnin sillabusu'. The 'Digər qruplarla paylaş' (Share with Other Groups) section is highlighted with a red box and shows a checked checkbox and several group numbers with toggle switches: 3424a, 2324a4, 2224a3, 2124a, 2324a1, 2324a3, and 2324a5. The 'Yüklənəcək materiallar' (Upload Materials) section is highlighted with a red box and shows a file named 'RA- M1.pptx' with a download icon and a red trash icon. Below this is a dashed box for 'Fayl əlavə et' (Add File) and a blue 'Göndər' (Send) button at the bottom.

# Course Materials

"By clicking the 'Add Course Materials' button, a new window opens where the topic name must be entered (minimum 10 characters). In the description section, information about the subtopics must be provided (minimum 20 characters). If you want to share the course materials with other groups you teach, you can select the group names from the 'Share with Other Groups' section. This will automatically assign the materials to the selected groups. In the 'Add File' section, relevant teaching materials can be uploaded according to the topic."



The screenshot shows a web application interface for managing course materials. The browser address bar displays "4831/materials". The user profile is "Rəna İsmayılova". The page title is "Riyazi analiz-1 (2324a2)". The navigation menu includes "Dərs haqqında", "Dərs Materialları", "Qiymətləndirmə", "Davamiyyət", and "Cari Müvəffəqiyyət". A red box highlights the "Əlavə et" button in the top right corner. Below the button is a table with the following data:

Sıra	Mövzu	Müəllif	Tarix	Baxış
1	Riyazi analiz-1 Mühazirə 3	Rəna İsmayılova	02/03/2025 15:55	  
2	Sillabus - Riyazi analiz	Rəna İsmayılova	03/03/2025 15:34	  
3	Riyazi analiz-1 Mühazirə 2	Rəna İsmayılova	02/03/2025 15:35	  
4	Riyazi analiz-1 Mühazirə 1	Rəna İsmayılova	02/03/2025 15:45	  

# Assessment

In the Assessment section, by clicking the 'Add' button, a new window opens where the name of the topic to be assessed is entered. In the description section, the components of the topic are specified. The start and end dates for the assessment are selected based on the calendar, and the teaching type (lecture, laboratory, independent work, course project, etc.) is chosen. After the time interval ends, the option to mark as accepted or not accepted is selected. For laboratory tasks, the files are uploaded from the 'Upload Materials' section

The screenshot shows the 'Add Assessment' form in the AzTU ETS system. The form is titled 'Riyazi analiz-1 (2324a2)' and has a navigation bar with 'Ders haqqında', 'Ders Materialları', 'Qiyətləndirmə', and 'Davamiyyət'. The 'Qiyətləndirmə' button is highlighted with a red box. The form fields include: 'Mövzu' (Topic) with a red box around the input field; 'Başlanğıc tarix' (Start date) and 'Son tarix' (End date) with red boxes around the date pickers; 'Tədris növü' (Teaching type) with a red box around the dropdown menu; 'Zaman dolduqdan sonra' (After time) with a red box around the dropdown menu; 'Açıqlama' (Description) with a red box around the text area; and 'Yüklənəcək material' (Upload materials) with a red box around the file upload area and a 'Göndər' (Send) button. The 'Göndər' button is highlighted with a red box. The form is set against a light gray background with a white border.

# Attendance

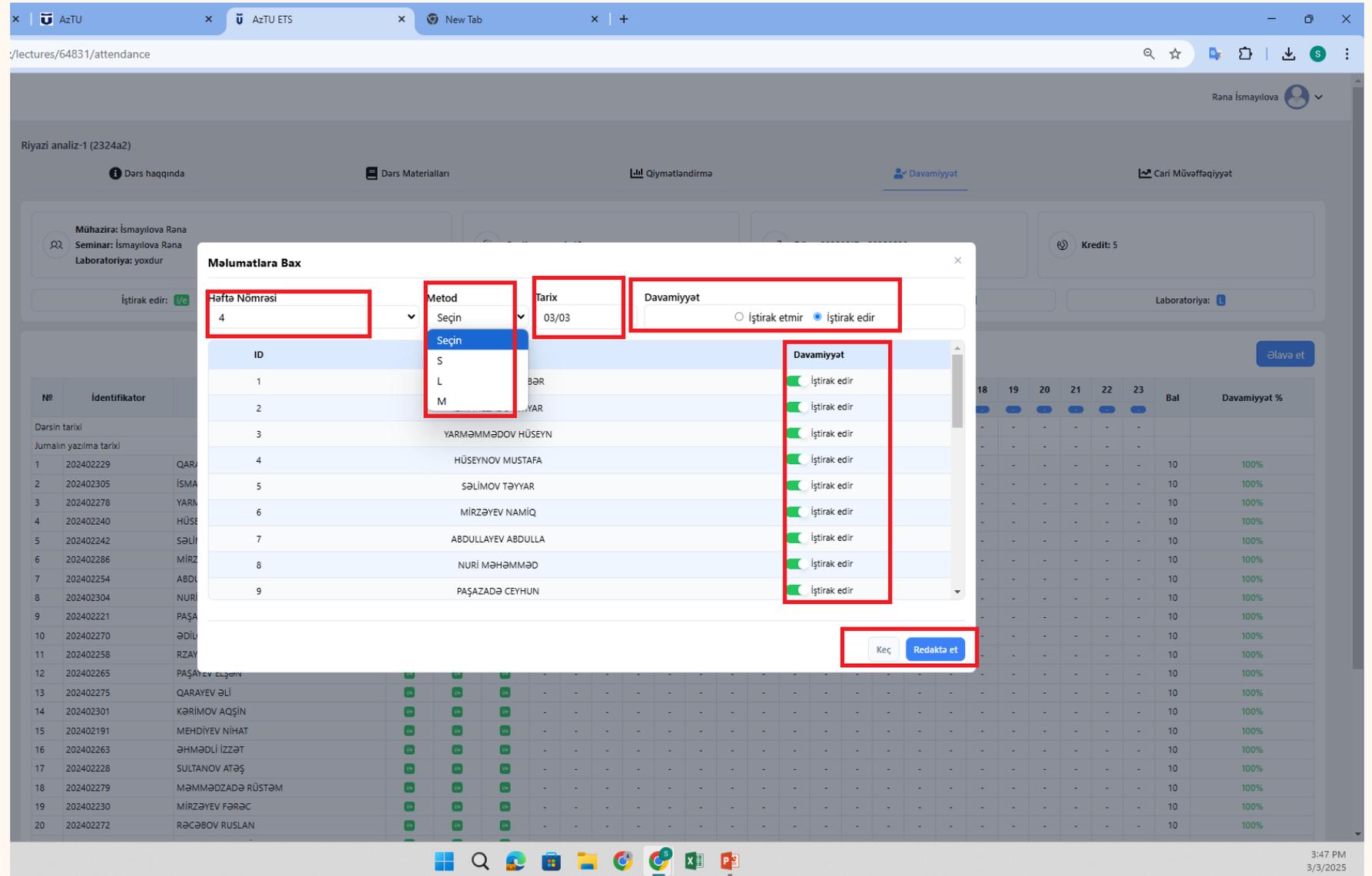
Students' attendance in class is marked with 'i/e' (green color) for participation and 'q/b' (red color) for non-participation. Lecture classes are marked as (M), seminar classes as (S), and laboratory classes as (L). When adding new attendance, the 'Add' button is clicked

The screenshot displays the AzTU ETS attendance management interface. The page title is 'Riyazi analiz-1 (2324a2)'. The interface includes several tabs: 'Dərs haqqında', 'Dərs Materialları', 'Qiymətləndirmə', 'Davamiyyət', and 'Cari Müvəffəqiyyət'. The course information section shows the lecturer 'Mühazirə: İsmayilova Rana', seminar 'Seminar: İsmayilova Rana', and laboratory 'Laboratoriya: yoxdur'. The course details include 'Saatların cəmi: 45', 'Dövr: 20250217 - 20250530', and 'Kredit: 5'. The attendance table has columns for '№', 'İdentifikator', 'Adı', and 23 days (1-23), 'Bal', and 'Davamiyyət %'. The table shows attendance records for 20 students, with all marked as 'i/e' (green) and '100%' attendance. The 'Add' button is highlighted in blue.

№	İdentifikator	Adı	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Bal	Davamiyyət %
Dərsin tarixi			20/02	20/02	27/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Jurnalın yazılma tarixi			24/02	24/02	02/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1	202402229	QARAZADƏ ƏLİƏKBƏR	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
2	202402305	İSMAYILZADƏ İXTİYAR	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
3	202402278	YARMƏMMƏDOV HÜSEYN	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
4	202402240	HÜSEYNOV MUSTAFA	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
5	202402242	SƏLİMOV TƏYYAR	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
6	202402286	MİRZƏYEV NAMİQ	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
7	202402254	ABDULLAYEV ABDULLA	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
8	202402304	NURİ MƏHƏMMƏD	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
9	202402221	PAŞAZADƏ CEYHUN	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
10	202402270	ƏDİLOV NAZİR	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
11	202402258	RZAYEV AMİL	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
12	202402265	PAŞAYEV ELŞƏN	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
13	202402275	QARAYEV ƏLİ	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
14	202402301	KƏRİMOV AQSİN	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
15	202402191	MEHDİYEV NİHAT	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
16	202402263	ƏHMƏDLİ İZZƏT	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
17	202402228	SULTANOV ATƏŞ	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
18	202402279	MƏMMƏDZADƏ RÜSTƏM	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
19	202402230	MİRZƏYEV FƏRƏC	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	
20	202402272	RƏCƏBOV RUSLAN	i/e	i/e	i/e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	100%	

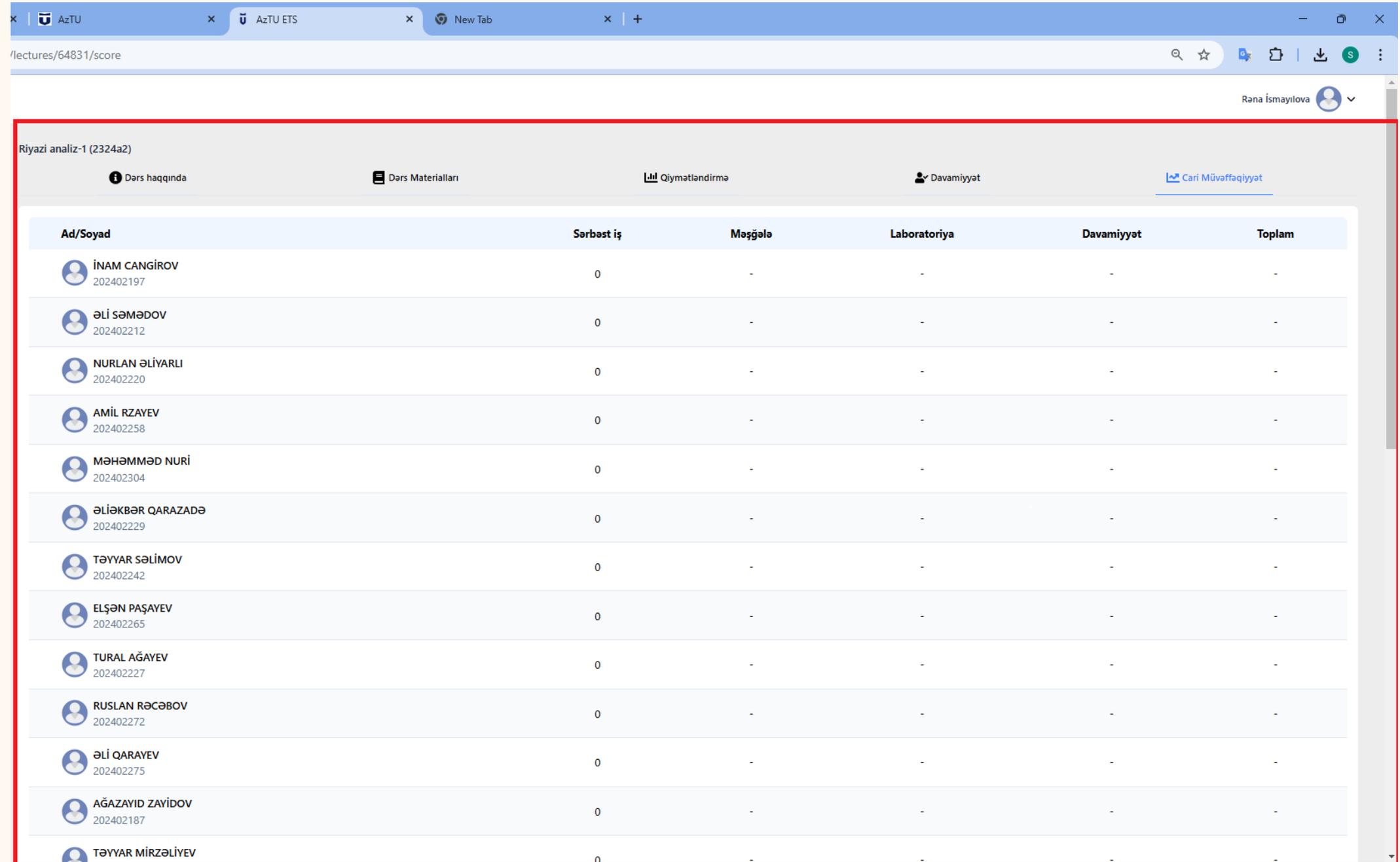
# Recording Attendance

When the 'Add' button is clicked, a new window opens where the class number is selected (it becomes active automatically), the teaching method is chosen (seminar, lecture, or laboratory), and the class date is recorded according to the calendar. Then, the students' list is checked, and their attendance is marked as either participated or not participated. Finally, by clicking the 'Edit' button, the attendance is saved. Attendance can be edited within 3 hours of being recorded.



# Overall Results

In the section where the overall results are displayed, the grades for each topic and the final grade for attendance are shown. During the exam, the student's overall entry score and exam score are added together and displayed in the Total Score section. Each student can view their overall pre-exam score in this section.



The screenshot shows a web browser window with the URL `/lectures/64831/score`. The page title is "Riyazi analiz-1 (2324a2)". The user is logged in as "Rana İsmaylova". The page has a navigation bar with tabs for "Dərs haqqında", "Dərs Materialları", "Qiymətləndirmə", "Davamiyyət", and "Cari Müvəffəqiyyət". The main content is a table with the following columns: "Ad/Soyad", "Sərbəst iş", "Məşğələ", "Laboratoriya", "Davamiyyət", and "Toplam". The table lists 12 students with their names and IDs, and their scores in each category. All scores are currently zero or dashes.

Ad/Soyad	Sərbəst iş	Məşğələ	Laboratoriya	Davamiyyət	Toplam
İNAM CANGİROV 202402197	0	-	-	-	-
ƏLİ SƏMƏDOV 202402212	0	-	-	-	-
NURLAN ƏLİYARLI 202402220	0	-	-	-	-
AMİL RZAYEV 202402258	0	-	-	-	-
MƏHƏMMƏD NURİ 202402304	0	-	-	-	-
ƏLİƏKBƏR QARAZADƏ 202402229	0	-	-	-	-
TƏYYAR SƏLİMOV 202402242	0	-	-	-	-
ELŞƏN PAŞAYEV 202402265	0	-	-	-	-
TURAL AĞAYEV 202402227	0	-	-	-	-
RUSLAN RƏCƏBOV 202402272	0	-	-	-	-
ƏLİ QARAYEV 202402275	0	-	-	-	-
AĞAZAYID ZAYİDOV 202402187	0	-	-	-	-
TƏYYAR MİRZƏLİYEV	0	-	-	-	-



## **Conclusion: The Power of Strategic Learning**

LMS are tools for managing, delivering, and tracking online learning. A strategic approach is key to implementing and maintaining LMS effectively. The future of LMS is personalized, adaptive, and immersive learning experiences. Embrace strategic learning for organizational success.