



>> **Mingachevir State University**

# Report

**9** **INDUSTRY, INNOVATION  
AND INFRASTRUCTURE**



(+99424) 275-32-72  
<https://mdu.edu.az>  
21 D. Aliyeva street, Mingachevir  
AZ4500 Azerbaijan



In its **2030 Development Strategy**, Mingachevir State University aims to transform into an **industry- and innovation-oriented research center**, based on **UN Sustainable Development Goal 9 (Industry, Innovation, and Infrastructure)**.

In the strategic document, under the **Innovation Block** and the goal of “**Becoming a driver of the regional innovation ecosystem**,” the following objectives are emphasized:

- Strengthening innovation-oriented and entrepreneurial approaches in education and research activities
- Creating and implementing mechanisms that support innovation activities
- Enhancing innovation activity that contributes to regional technological development within the framework of university–industry and university–government collaboration
- Ensuring the active participation of students in the innovation process

### Activities Carried Out Based On The Objectives.

Achieving progress in collaboration with industrial enterprises.

- Mingachevir State University is establishing a new university-industry collaboration model with “Azerbaijan TPP” LLC. [https://mdu.edu.az/mdu\\_azies\\_emkdshlq\\_15-07-25/](https://mdu.edu.az/mdu_azies_emkdshlq_15-07-25/)

- A Memorandum has been signed between Mingachevir State University (MSU) and “Azerbaijan Thermal Power Plant” LLC to strengthen industry-education cooperation. The agreement covers personnel training in energy engineering, electrical and electronics engineering, research and innovation activities, and the integration of education with production.

- Within the framework of the cooperation, plans include providing students with industrial internships, involving company specialists in teaching, implementing joint research projects, and updating curricula.

- Rector Anar Eminov emphasized that this collaboration serves to enhance students’ practical knowledge, while the Director of “Azerbaijan TPP” LLC, Tahmasib Huseynov, highlighted that it will contribute to the provision of professional personnel in the energy sector. The Memorandum is concluded for a period of five years and envisages sustainable cooperation.

- Mingachevir State University has signed a Cooperation Memorandum with “Azeraluminium” LLC, the largest industrial complex in the region..



[https://mdu.edu.az/mdu\\_azeralmunium\\_emekdashliq\\_08-07-25/](https://mdu.edu.az/mdu_azeralmunium_emekdashliq_08-07-25/)



- A Memorandum has been signed between Mingachevir State University (MSU) and the Ganja Production Complex of “Azeraluminum” LLC to strengthen education-industry collaboration. The agreement was signed by MSU Rector Anar Eminov and “Azeraluminum” LLC Director Maksim Javadov.

- The Memorandum aims to ensure the synthesis of academic knowledge with practical production experience, facilitating the training of professional engineering personnel for the industry, promoting innovation activities, and enabling mutual resource exchange.

- According to the agreement, MSU’s curricula in Industrial, Energy, Electrical and Electronics, and Occupational Safety Engineering programs will be enhanced, while students’ industrial internships and practical components of courses will be conducted at “Azeraluminum” LLC. Master’s theses will be based on real production challenges of the enterprise, and outstanding graduates will be offered employment.



meeting the industry’s workforce needs.

- This collaboration represents a significant step toward strengthening MSU’s practice-oriented education model and expanding real integration with the industry.

- *Mingəçevir Dövlət Universitetinin (MDU) Mingəçevir Tekstil MMC ilə əməkdaşlığı davam edir.* [https://mdu.edu.az/mdu\\_tekstil\\_2024\\_1/](https://mdu.edu.az/mdu_tekstil_2024_1/)

- <https://mdu.edu.az/mdu-tekstil/>

The collaboration between Mingachevir State University (MSU) and “Mingachevir Textile” LLC aims to strengthen university-industry relations, enhance the practical orientation of education, and develop students’ professional skills.

Within the framework of this cooperation, “Mingachevir Textile” LLC serves as a practical training base for students enrolled in Industrial Engineering and Business programs at the university. Representatives of the Department of Business and Management held a meeting at the enterprise with labor





market representatives to discuss the alignment of courses in Business Administration, Management, and Marketing with industry requirements, as well as the organization of industrial excursions and leadership training programs.

This collaboration contributes to the effective organization of students' industrial internships, the expansion of education opportunities tailored to labor market demands, and the sustainable development of the university's connections with industry.



### Strengthening infrastructure and material-technical resources

**The bright future of Mingachevir State University: Construction of the new campus has begun!**

The construction of the new campus of Mingachevir State University (MSU) has officially begun. On this occasion, the university's Rector, Anar Eminov, visited the campus site to review the ongoing work.

The modern campus, to be built on a 7-hectare area, will provide extensive opportunities for the university's staff and students. The following infrastructure facilities are planned:

- Academic buildings
- Conference hall and library
- Student dormitories (for male and female students) and studio-type apartments for faculty
- Hotel building
- Vocational school
- Indoor and outdoor sports halls
- Modern laboratories
- Business incubation and startup centers
- Various recreation and leisure spaces for students



position as one of the leading higher education institutions in the region.

<https://tehsil.biz/news/az/85350/MDU-nun-yeni-kampusunun-tikintisin-balanlb>





# MINGACHEVIR STATE UNIVERSITY GREEN CAMPUS

## LET'S START BUILDING A GREEN WORLD FROM OUR CAMPUS!

- Within the framework of the “Green Campus MDU” program, the university implements activities on waste management, energy efficiency, environmental awareness, tree planting, and nature conservation.

- **Objective:** To create a sustainable and environmentally responsible infrastructure within the educational environment.

Mingachevir State University’s (MSU) “green campus” concept encompasses increasing the use of renewable energy, managing waste, conserving water and biodiversity, reducing carbon emissions by promoting active cycling and walking, developing ecological awareness, and integrating other sustainability components. It



aims to provide solutions to regional environmental challenges and mitigate the impacts of climate change.

By implementing the “green campus” concept, the university seeks to become a higher education institution that minimizes negative environmental, social, and economic impacts while guiding society toward a sustainable lifestyle.

At the same time, the “green campus” model introduces the concept of sustainability to the community on a micro level, aiming for its effective dissemination to the broader public.

The integration of sustainability elements into teaching and learning, research and development projects, community awareness initiatives, volunteerism, and collaborative activities forms the core mission and vision of MSU as a university of the new era based on sustainable development.

### Scientific Research and Innovation Activities

The **Incubation and Acceleration Center** at Mingachevir State University (MSU) has officially started its operations. The Center is managed by a director appointed by the order of the MSU Rector. <https://mdu.edu.az/inkubasiya/>

Responsibilities of the Incubation and Acceleration Center

In accordance with its Charter, the Center carries out the following tasks:

- Develop and bring students’ and young entrepreneurs’ business ideas to the market.



- Provide financial and advisory support to startups and innovative projects.
- Connect young entrepreneurs with mentors and experts.
- Organize incubation and acceleration programs.
- Conduct events, seminars, and training for innovative businesses.
- Facilitate integration and networking with local and international business environments.
- Develop the startup ecosystem and collaborate with organizations operating in this field.
- Support more developed startups within acceleration programs by providing training, networking opportunities, investor connections, strategic planning, and business development assistance.
- Assist startups in the early stages within incubation programs by offering consultancy, mentorship, financial and legal support, as well as access to workspace and resources.

#### Key Focus Areas of the Center

1. The Center primarily supports the development of young and new entrepreneurs (startups) and promotes activities that contribute to the growth of the innovation and entrepreneurship ecosystem.

2. It aims to create an innovation and entrepreneurship ecosystem for the university's students, faculty, and other members of the local community, supporting the development of their ideas and projects and fostering the emergence of high-tech and sustainable startups.



#### Central Aran Scientific Research Center

By the decision No. 57 of the Academic Council of Mingachevir State University (MSU) dated January 28, 2025, the **Central Aran Scientific Research Center** was established. The main purpose of the Center is to conduct research in scientific, social, economic, cultural, and other fields within the economic region. <https://mdu.edu.az/merkezi-aran-tedqiqat-merkezi/>

#### Main Focus Areas of the Central Aran Scientific Research Center

- Conduct research in various fields within the Central Aran Economic Region, including economics, humanities, natural sciences, engineering, and environmental studies.
- Organize regional conferences, seminars, and scientific discussions.
- Prepare reports, research papers, and articles.
- Organize scientific training and internship programs for university students.
- Mentor young researchers and enhance their scientific potential.
- Identify development prospects in education, economy, industry, and other sectors of the region.



- Promote and implement innovative research projects.
- Key Responsibilities of the Center
- Conduct activities in the main scientific research areas and apply the latest scientific findings in these fields.
  - Develop the scientific potential of researchers and students affiliated with the Center.
  - Enhance the level of scientific activity in the region, particularly in the Central Aran area.
  - Support the training of scientific personnel in designated fields.
  - Organize scientific seminars, conferences, training sessions, and other academic events within the university.
  - Collaborate closely with other university units to integrate research outcomes into the educational process.
  - Implement research projects in science and technology.
  - Promote scientific exchange among students and faculty members.
  - Support projects for the practical application of research results.
  - Foster cooperation with local and international scientific organizations.

### Two new Research Institutes are being established at Mingachevir State University.

In line with the **Artificial Intelligence Strategy of the Republic of Azerbaijan for 2025–2028**, Mingachevir State University (MSU) is establishing two new research institutes to strengthen scientific potential and promote innovative research: the **Institute of Artificial Intelligence and Digital Technologies** and the **Research and Development Institute**.

The **Institute of Artificial Intelligence and Digital Technologies** will focus on the development of digitalization and AI technologies in the region, conducting research on smart systems and their applications in economic sectors. The project is led by Associate Professor Aidə Mustafayeva, Head of MSU's Department of Information Technologies.

The **Research and Development Institute** will serve as a center for research in energy and water resource management, the study of thermal and hydroelectric power plants, and sustainable energy and water engineering. The project is headed by researcher Ramil Həsənov, who has extensive academic and industrial experience.

Both institute directors have 28 scientific publications indexed in **Q1–Q2 quartiles** of **Scopus** and **Web of Science** databases. The establishment of these institutes will significantly contribute to the international expansion of scientific activities at MSU, the promotion of innovations, and the digitalization of science.

[https://mdu.edu.az/xbr\\_tdqqt/](https://mdu.edu.az/xbr_tdqqt/)

### Conclusion

Mingachevir State University (MSU) makes a significant contribution to the economic and scientific development of the region under **Sustainable Development**





**Goal 9 — “Industry, Innovation, and Infrastructure.”** The university’s activities are distinguished by expanding collaboration with industrial enterprises, organizing innovation-oriented research, and developing modern scientific infrastructures.

Partnerships with **“Azeraluminum” LLC, “Mingachevir Textile” LLC, and “Azerbaijan Thermal Power Plant” LLC** have created opportunities for students to gain practical experience and apply their knowledge, while curricula have been aligned with the real demands of the labor market. These collaborations have facilitated the integration of the university’s scientific potential into the industrial environment and contributed to the region’s innovative development.

The establishment of new scientific structures—such as the **Central Aran Scientific Research Center, the Institute of Artificial Intelligence and Digital Technologies, the Research and Development Institute, and the GEOLAB laboratory**—has significantly strengthened MSU’s scientific and technological infrastructure. These centers conduct research in modern fields, including energy, water resource management, industrial engineering, digital technologies, and environmental studies.

Overall, MSU’s activities in the SDG 9 direction have laid the foundation for a practice-oriented education model, the integration of scientific research with industry, and the development of a sustainable innovation ecosystem. These efforts contribute both to the university’s strategic development goals and to Azerbaijan’s industrial and innovation-driven economic development strategy.

