



Source: Zhubanov Media

## ANNUAL REPORT OF THE NJSC “AKTOBE REGIONAL UNIVERSITY NAMED AFTER K. ZHUBANOV” FOR 2024

**Staff: 1,224**

**Contingent** – 13,756 students, including undergraduate – 13,153, master's – 570, doctoral – 33.

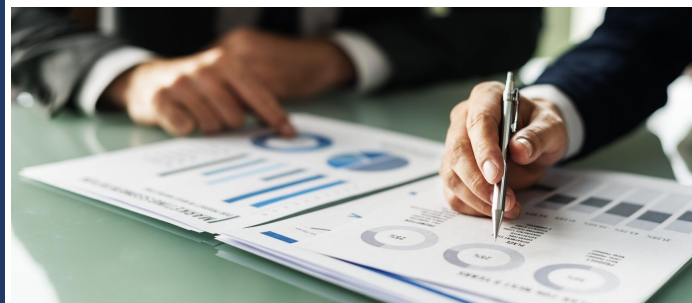
## DEVELOPMENT PLAN FOR 2020–2024

### 5 PRIORITY DIRECTIONS

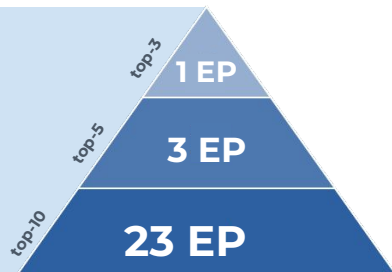
1. ENSURING HIGH-QUALITY TRAINING OF COMPETITIVE PERSONNEL
2. DEVELOPMENT AND IMPROVEMENT OF THE EFFICIENCY OF SCIENTIFIC RESEARCH AND INNOVATIVE DEVELOPMENTS
3. INTERNATIONALIZATION AND INTERNATIONAL COOPERATION
4. FOSTERING A HARMONIOUSLY DEVELOPED PERSONALITY BASED ON HUMAN VALUES
5. ENSURING SUSTAINABLE FINANCIAL AND ECONOMIC DEVELOPMENT OF THE UNIVERSITY

*A total of **32** key indicators **for 2024***

*All indicators are executed at 100% or higher*



# DEVELOPMENT OF ACADEMIC POTENTIAL



In the TOP-10 universities of the of Kazakhstan for employment with a result of 86%

## DOUBLE-DEGREE PROGRAMS



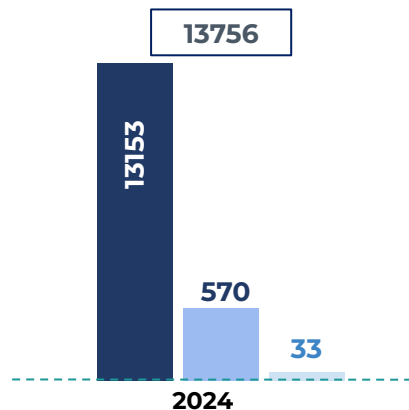
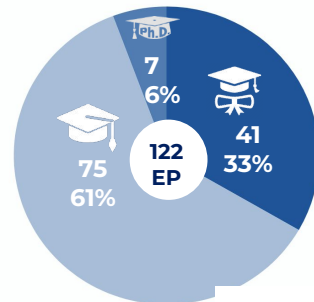
- Computer Engineering
- Electric Power Engineering
- Petroleum Engineering and Energy Management  
(first admission in 2023)



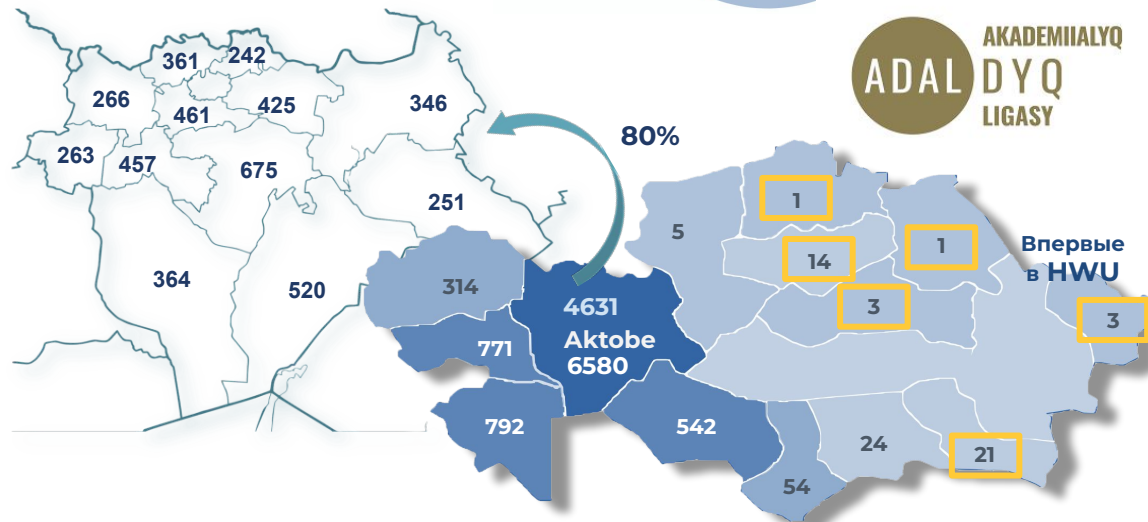
## JOINT EP

- IT medicine  
(first graduation in 2024)
- Clinical psychology  
(first graduation in 2025)

## 122 EPs in 2024



undergraduate  
graduate  
PhD

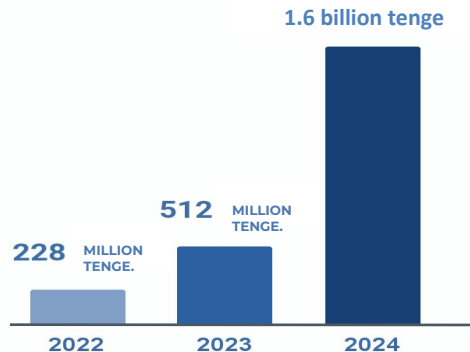


АКАДЕМИАЛЫҚ  
АДАЛ ДҮҚ  
ЛИГАСЫ

Впервые  
в HWU

# DEVELOPMENT OF RESEARCH POTENTIAL

## FINANCING



## PUBLICATION ACTIVITY (number of publications by quartile)



### 30 grant projects from the Ministry of Higher Education of the Republic of Kazakhstan

- 14 projects - grant funding
- 11 projects - "Young Scientist"
- 3 projects - through the Young Scientists Competition
- 2 projects - through program-targeted funding

### 2 международных проекта

- Kazakhstan - U.S. University Consortium Partnership Program (University of Cincinnati, Astana IT University, USA)
- Novel drug discovery for therapeutic purposes: Sars-cov19 (University of Iowa, USA)

### • Training of scientists:

- 7 doctoral programs
- 4 dissertation councils
- 33 doctoral students are studying at the Zhubanov ARU
- 11 people defended their doctoral dissertations in 2024

### • Developing research at the university:

An internal university grant competition for young scientists totaling 9 million tenge.

## COMMERCIALIZATION PROJECTS

### COMMERCIALIZATION OF TECHNOLOGIES THROUGH FINANCING FROM JSC "SCIENCE FUND"

□ "Bringing pollutant emissions from power units No. 1-8 of the Aksu Thermal Power Plant into compliance with the Environmental Code of the Republic of Kazakhstan" with KazEnergMash LLP - 350 million tenge.

□ "Organization of new ferronickel production from low-grade ores, concentrates, and waste" with Paker KZ LLP - 350 million tenge.

### Within the framework of the project "My profession is my future" Foresight sessions were held in the following areas

- Oil and gas industry;
- Mining and metallurgy;
- Transportation and logistics;
- Renewable energy sources;
- Water management.



# SOLVING REGIONAL PROBLEMS USING THE EXAMPLE OF THE CARE

## ENVIRONMENTAL PROBLEM OF THE REGION

### Local industrial waste:

- ❑ ferrochrome production waste
- ❑ industrial waste
- ❑ thermal power plant waste

Source: PIXABAY



Source: Академгородок



Source: Air.ru



## CENTER FOR ACADEMIC AND RESEARCH EXCELLENCE

## WAYS TO SOLVE THE PROBLEM

- ❑ "Development of new technologies for processing industrial waste while improving the environmental situation in the region"
- ❑ Creation of **three specialized laboratories** (in metallurgy, materials science, and ecology);
- ❑ Development of a technology for **processing** dust and sludge from ferrochrome production;
- ❑ Development of a technology for **recycling** ferrochrome production dust and waste from thermal power plants
- ❑ Creation of **filters from industrial waste** and wastewater treatment to regulatory standards

## SCIENTISTS

- ❑ The research group consists of **53 people**
- ❑ **10+ PhD** students

## CONSORTIUM

- ❑ **NJSC "ARU named after K. Zhubanov"**
- ❑ Research Institute – Chemical and Metallurgical Institute named after Zh. Abishev
- ❑ Production – LLP "QazMagnoChromite"

## CURRENT PROGRESS

- ❑ In 2024, **22 units** of equipment were purchased, all registered with E-Labs.
- ❑ **2 patent** applications were filed.
- ❑ 4 articles were published in journals in the **Q1 and Q2** quartiles.
- ❑ **5 articles** were published in CQASHE publications.
- ❑ **Design and estimate documentation** for the construction of the CAIP building (1,000 sq. m.) was prepared.

## CO-FINANCING

Co-financing by **JSC TNK Kazchrome** (total amount for 3 years - 150 million tenge)

# EXPANSION OF INTERNATIONALIZATION

## ACADEMIC MOBILITY

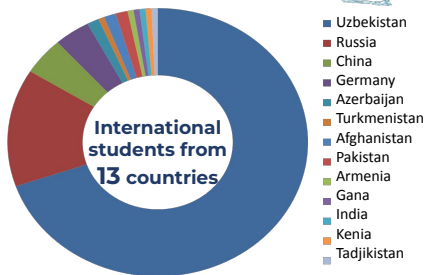


2024 76

2023 76

2022 79

**Internal academic mobility:**  
55 students arrived, 105 students left



**1,336**  
**STUDENTS IN LANGUAGE COURSES**



## INTERNATIONAL ACTIVITIES OF THE FACULTY

### • BOLASHAK – 21 FACULTY

Heriot-Watt University  
Michigan State University  
University of Leeds  
University of Minnesota  
University of Bristol

### • 68 SCIENTISTS AND PROFESSORS INVOLVED

### • 37 SCIENTISTS WITH A HIGH H-INDEX

Yan Hu - University of Science and Technology of China, China, H-116  
Bin Yu - University of Science and Technology of China, China, H-66  
Khutoryansky V. - University of Reading, UK, H-51  
Bin Fei - Hong Kong Polytechnic University, China, H-50

### • 30th place in the QS Central Asia University Rankings



# CURRENT PROGRESS AT THE HERIOT-WATT CAMPUS

**THE MAIN GOAL OF THE PARTNERSHIP IS TO TRANSFORM ACADEMIC POLICY AND CULTURE,  
RAISING STANDARDS AND STRENGTHENING SCIENTIFIC COLLABORATION**

## Progress for 2024

- **Alignment of ARU's educational programs with Heriot-Watt's best practices**
- **Go Global - second-year students study at campuses:**
  - Edinburgh (Scotland)
  - Kuala Lumpur (Malaysia)
- **Diversity of student population:**
  - International students from Russia and Uzbekistan
  - Transfer from the University of Aberdeen (Scotland)
  - Fee-paying students
- **ARU Master's student guidance by Heriot-Watt faculty**
- **Collaboration of ARU and Heriot-Watt scholars**
- **Continuous career guidance work within the country:**
  - Study In KZ exhibitions, NU, KIMEP, KBTU, SDU Consortium, OPEN DAY for students in grades 9-11
- **abroad:**
  - Uzbekistan, Azerbaijan, Kyrgyzstan, Russia, China (in progress)
- **Academic English Test (AET) model test:**
  - AET (Astana, Almaty, Aktau, Atyrau, Uralsk, Kyzylorda)
  - Pass rate (2023: 30% → 2025: 50%)



Source: Zhubanov Media

# STRENGTHENING HUMAN RESOURCES

COURSES WITHIN THE PROJECT  
"MODERNIZATION OF SECONDARY EDUCATION"  
**94 FACULTY**

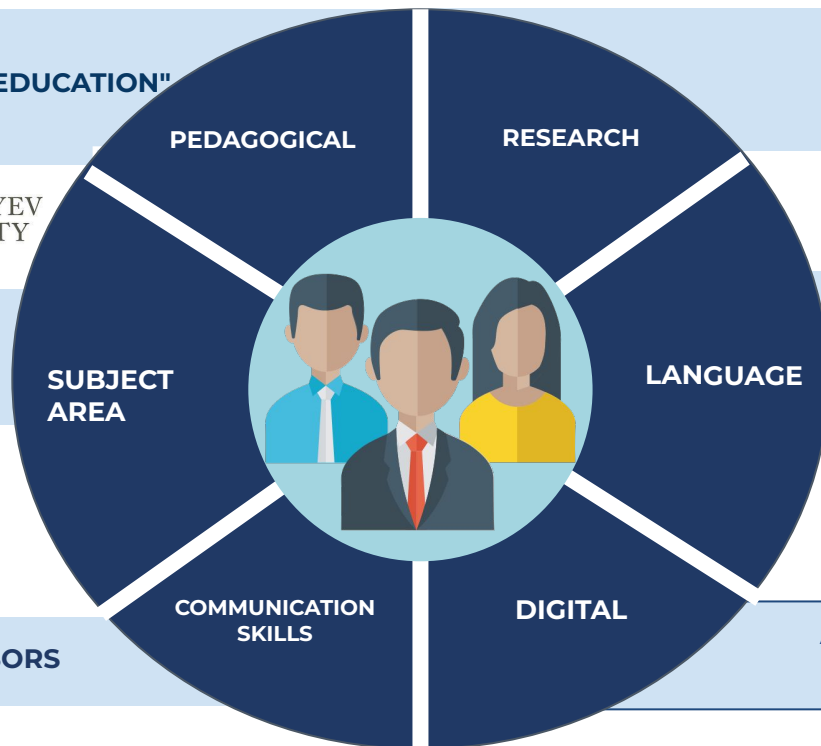
WINTER  
RESEARCH SCHOOL  
**100 FACULTY**



COURSES IN  
SPECIALIZED DISCIPLINE  
**200 FACULTY**

DOCTORAL COURSE  
**50 FACULTY**

SEMINARS WITH FOREIGN PROFESSORS

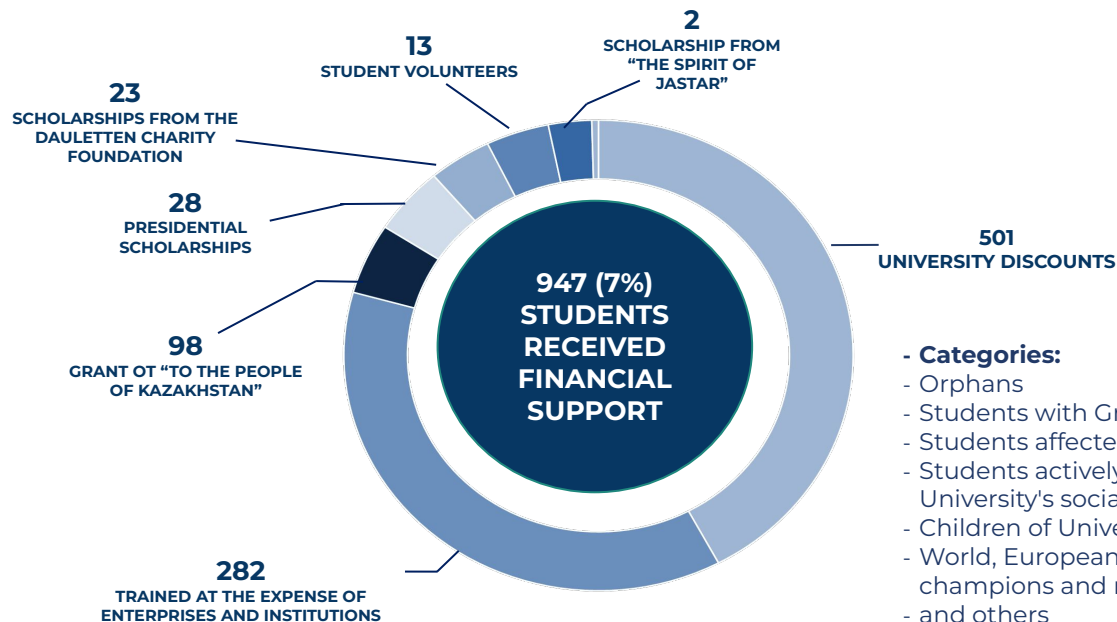


ENGLISH COURSES  
**100 FACULTY**

BOLASHAK  
**21 FACULTY**

ARTIFICIAL INTELLIGENCE COURSES  
**150 FACULTY**

# EXPANDING ACCESS TO HIGHER EDUCATION



## - Categories:

- Orphans
- Students with Group I disabilities
- Students affected by emergencies
- Students actively involved in the University's social life
- Children of University staff
- World, European, Asian, and Kazakh champions and medalists in sports
- and others

**From enterprises  
130 million tenge.**

JSC "SNPS-Aktobemunaigas"  
JSC "Turgay Petroleum"  
OF "Charity Foundation "Zhakia"  
IC Petroleum LLP  
JSC "KMC Munay"  
LLP "Kazakhoil Aktoke"  
Sagiz Petroleum Company, LLP  
Urictau Operating LLP  
PhoenixPartnersPlus LLP  
JSC "PetroKazakhstan Kumkol Resorsiz"  
Freedom Bank Kazakhstan  
JSC "Maten Petroleum"  
Tau-Ken LLP  
JSC "JSC" Akbastau"  
CF "Freedom Shapagat"  
Lines Jump LLP  
Kazakhturkmunay LLP  
Joint-stock company "Embamunaigas"  
TetisAralGas, LLP  
et al.



ТОРГАЙ ПЕТРОЛЕУМ  
TURGAI PETROLEUM

TETHYS  
Petroleum

Оперейтинг



Урихтау





# SERVICE TO THE REGION



**Project "Support the Defense!" -  
50 service members**

- English for the Emergency Situations Department - 20 students
- Olympiad (Huawei, Zhubanov) - 1,000 schoolchildren
- Voluntary participation of over **500 students and over 50 University staff** in flood protection work in the Aktobe region in the spring of 2024.

## SILVER UNIVERSITY



**40+ students  
Kazakh language courses**



**90  
students**

**Silver University**  
The oldest participant is 90 years old

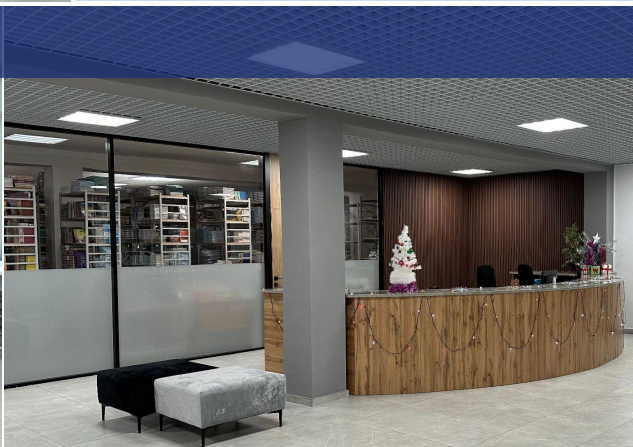
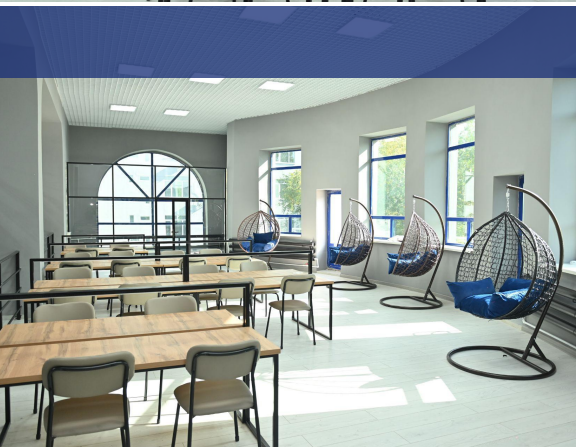


**50+ students**  
**Digital Literacy | Financial Literacy |  
Legal Literacy | English | Vocals |  
Physical Therapy | Sewing**

# LIBRARY TRANSFORMATION

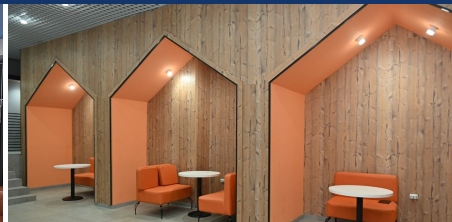
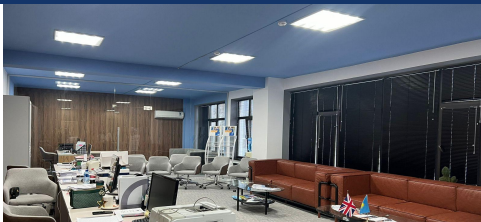


- Project "Prospective Development of Libraries of Higher Education Institutions for 2023-2025"
- Business Process **Automation**
- **Self-Service** Kiosks
- **Mobile** Library Card Application
- **Renovation** of the Main Library Building (553 m2) and the Faculty of Engineering (504 m2)
- **Open Space** Rooms, No Librarian Intervention
- **Online Event Calendar**
- **RFID** for Accounting and Control





# CREATING A SAFE AND COMFORTABLE LEARNING ENVIRONMENT



Main building



Library of the Technical Faculty



Main Building Library



Co-working areas in libraries

**Coffee hub** on the 1st floor of the Main Building (invested by the tenant)



Crimpolygon



Repair of hostels



Furniture  
Offices, educational and laboratory  
equipment  
Office equipment



**Zhubanov store** on the 1st floor of the Main Building



**ZHUBANOV**  
UNIVERSITY

[zhubanov.edu.kz](http://zhubanov.edu.kz)

**THANK YOU!**