



URGENCH STATE UNIVERSITY NAMED
AFTER ABU RAYHAN BIRUNI

SDG17. Partnership for the Goals



About our University

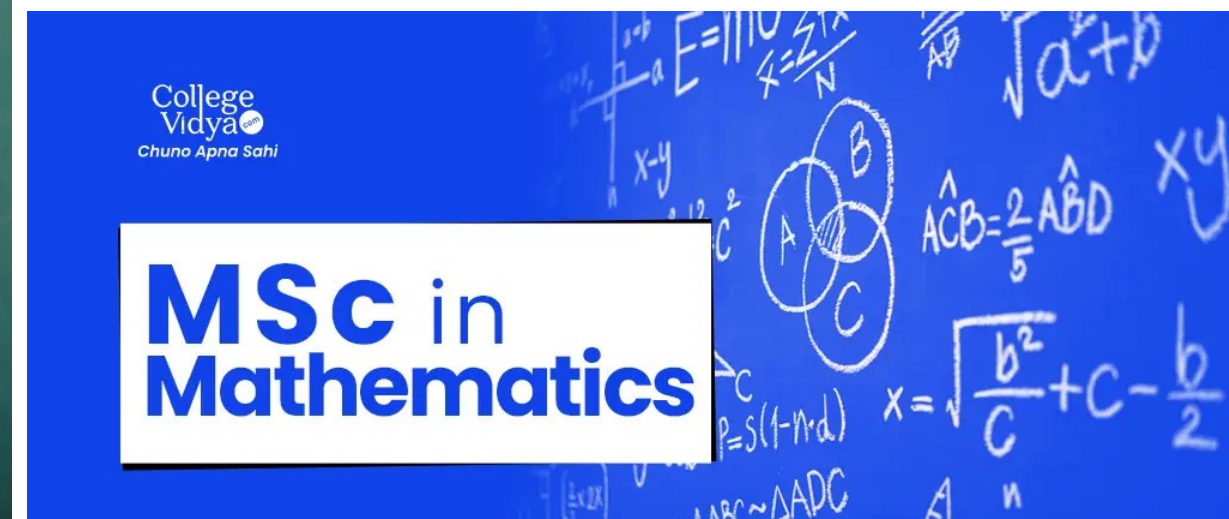
- Total number of students: 24 100
 - full time students: 20
 - part time students: 50
 - distance learning students: 50

- Total number of staff: 937
 - Doctor of Science: 55
 - Ph.D.: 43
 - Visiting professors: 58



Programs

- BSc: 105
- MSc: 45
- PhD: 43
- Joint degree: 1



FACULTIES



- Physics and Mathematics
- Foreign Philology
- Philology and Art
- Natural and Agricultural Sciences
- Technics
- Sports activity, pedagogy and psychology
- Chemical Technologies
- Socio-economic sciences
- Computer engineering
- Telecommunication technologies
- Graduate Program



EDUCATIONAL INSTITUTIONS AND CENTERS UNDER THE UNIVERSITY



- Professional colleagues - 28
- Academic lyceum -1
- Secondary school-1
- Technopark-1
- Center for advanced studies
- IT center (campus - 4)



RESEARCH LABORATORIES



1. Structure of nanomaterials;
2. Solar cells and solar panels;
3. Food safety;
4. Geographic information system;
5. Peking - Urgench mathematics center;
6. RISMUz center;
7. Advanced plasma technology;
8. Artificial intelligence;
9. Digital Soil Mapping.



KHOREZM INNOVATION TECHNOPARK

1. MEAT PROCESSING;
2. MILK PROCESSING;
3. BAKERY PRODUCTS;
4. TOMATO PROCESSING;
5. MELON PROCESSING;
6. LIGHT INDUSTRIAL PRODUCTS;
7. SOUVENIR PRODUCTS.





Partnerships with Enterprises

Urgench Ranch University of Technology collaborates with leading enterprises, providing students with practical training and internships:

“UzAuto Motors” JSC, Khorezm Branch – internships and joint technical projects.

“Urganchkormmash” JSC – practice in mechanical engineering and production processes.

URSU – student internships in specialized subjects (mutaxassislik fanlari).

“Textile Finance Khorezm” LLC – training in textile technologies and financial management.

“ADM Jizzakh” LLC – internships in automotive and industrial technologies.

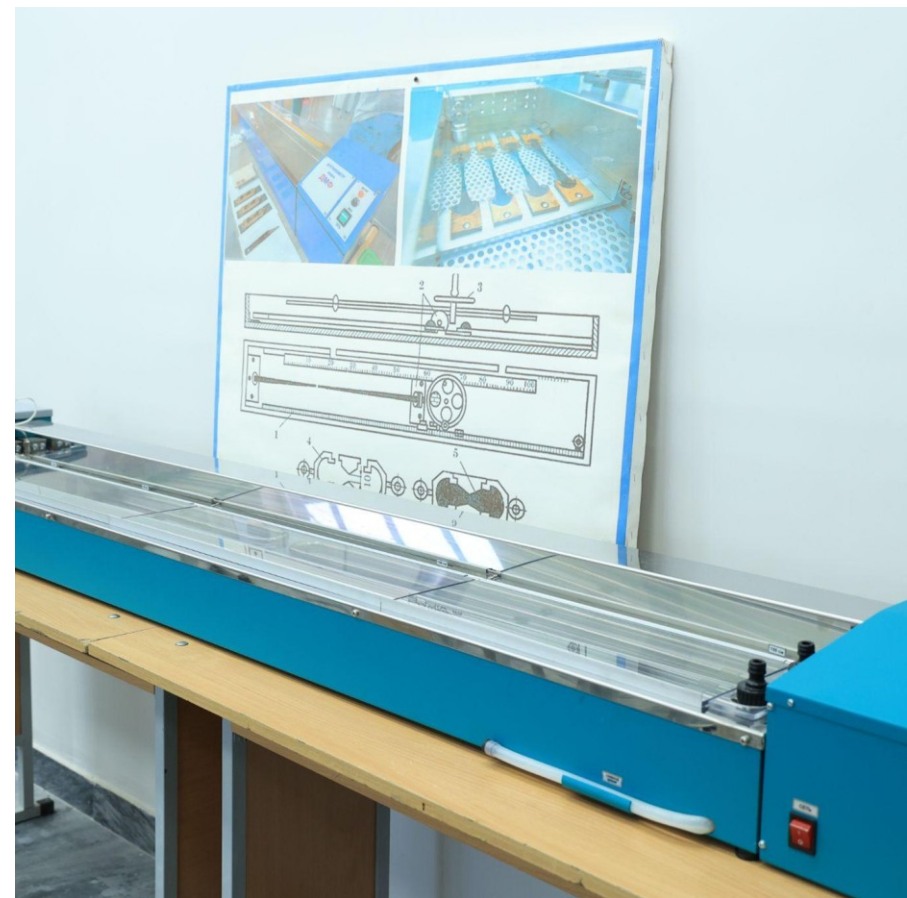
These partnerships provide hands-on experience, improve employability, and strengthen university–industry integration.

Laboratories at Urgench state university named after Abu Rayhan Biruni

Our university provides students with access to modern laboratories that support both education and research (Total: 6 laboratories):

- **Computer Laboratories** – Information Technologies in Technical Systems
- **Computer Practice Rooms** – Information Technologies in Logistics Systems
- **Chemistry Laboratory** – practical experiments in general and applied chemistry
- **Physics Laboratory** – applied training in fundamental and engineering physics
- **Medical Laboratories** – practice-oriented training in healthcare and life sciences

These laboratories ensure hands-on learning, strengthen professional skills, and support innovative research activities.





URGENCH STATE
UNIVERSITY NAMED AFTER
ABU RAYHAN BIRUNI

INTERNATIONAL COOPERATION DEPARTMENT

Our Internationalization strategy based on the “Conception of development of the Higher education system of the Republic of Uzbekistan until 2030” and presents the renewed approach to Urgench State University’s international strategic activity from 2020-2030. The strategic direction of the University’s internationalization, as described in the 2020-2030 strategy documents, has been adjusted in response to the University’s refreshed institutional strategy and changes in the Higher Education landscape, which have shifted significantly over the last years.



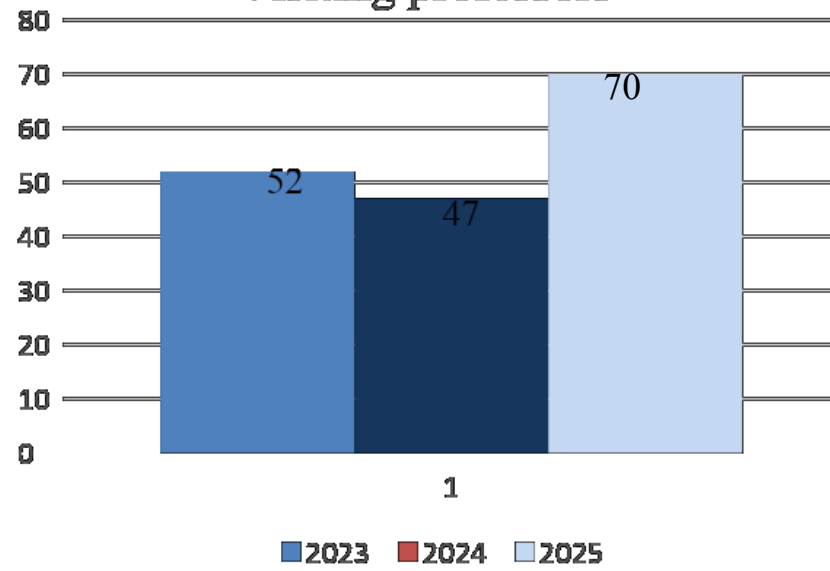
In further developing our international profile and reputation, the University places particular emphasis upon

- Improving the organization of joint educational programs with foreign higher educational establishments.
- Producing research of international impact and significance, shaping the ways in which the world is seen and understood
- Welcoming the ablest students, teachers, and researchers from across the world, and celebrating diversity in culture and perspective
- Enabling students and staff to engage international cultures to further their personal and professional development
- Educating students to become informed and responsible citizens and supporting them as alumni to make leading contributions internationally
- Promoting partnership with international universities, funding bodies, and other private and public organizations including through our participation in the Erasmus+ program
- Supporting the social, cultural, and economic interests of the city and region through the University's international expertise and engagement.

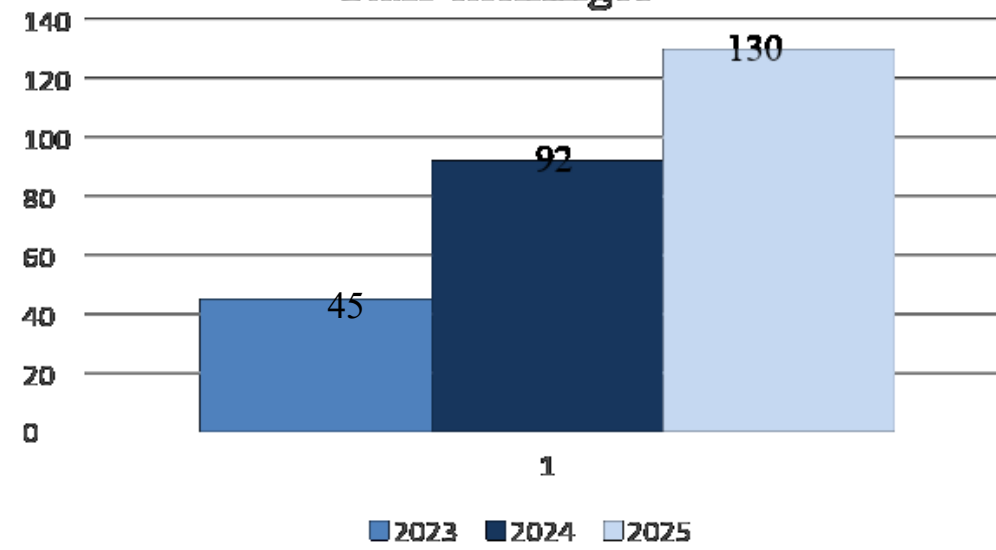


URGENCH STATE UNIVERSITY NAMED AFTER ABU RAYHAN BIRUNI

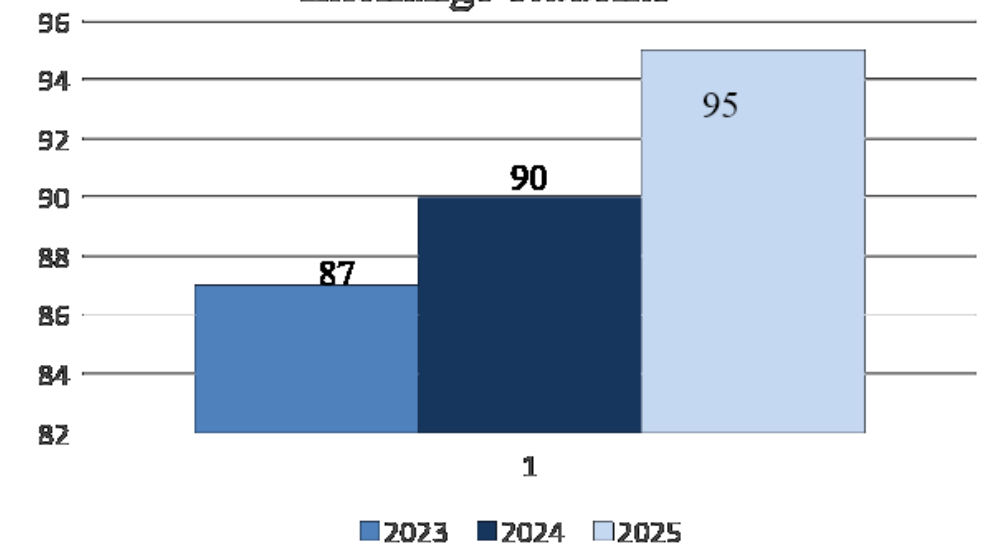
Visiting professors



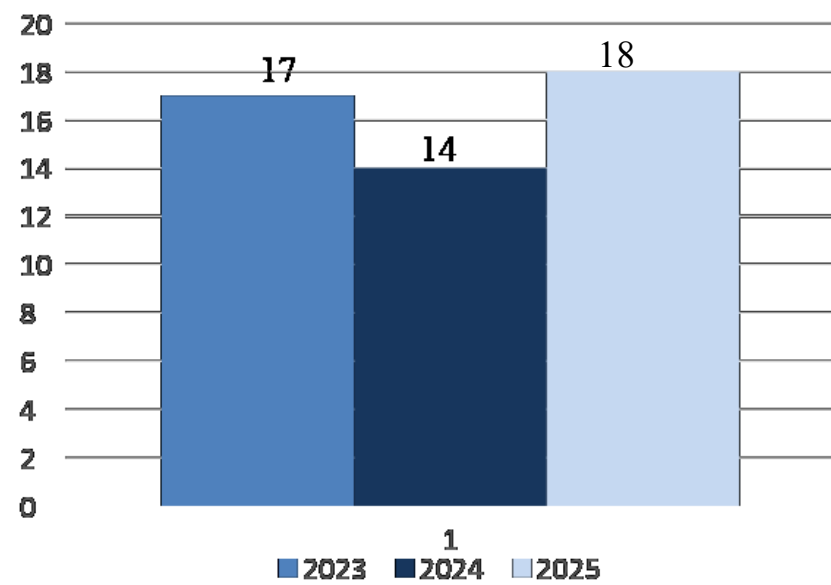
Staff exchanges



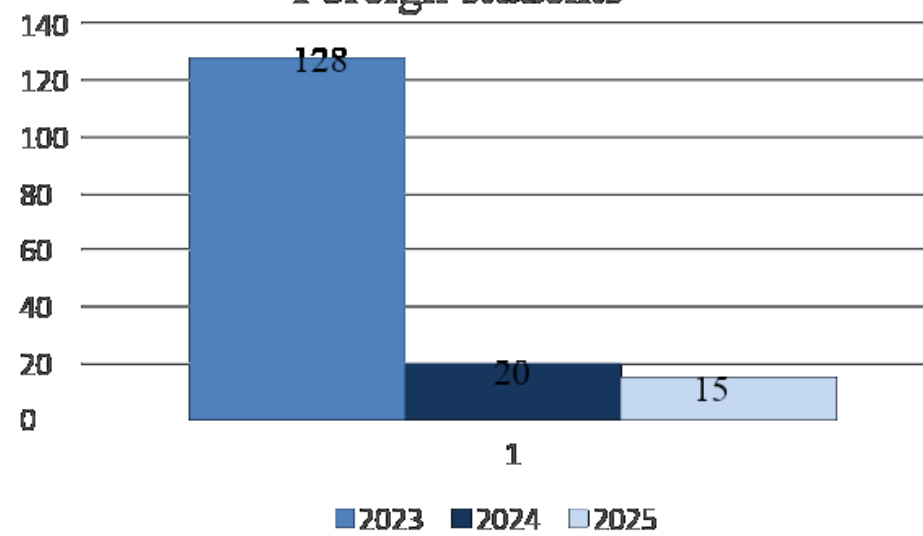
Exchange students



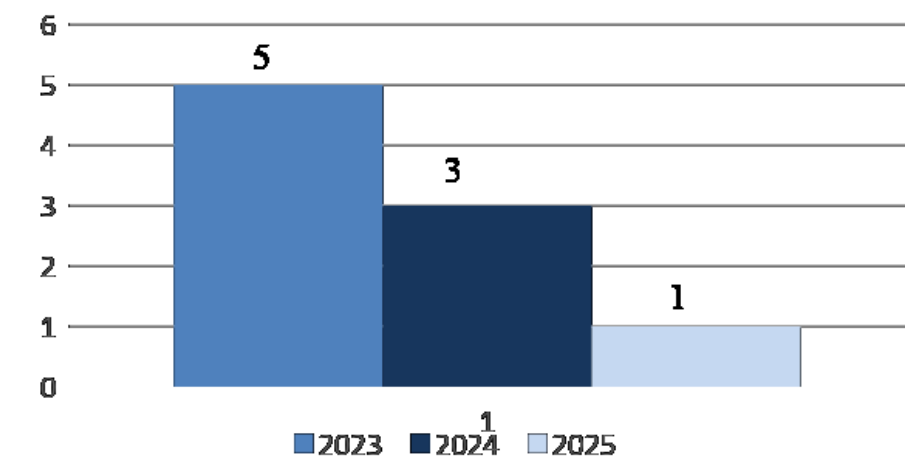
International projects



Foreign students



Joint degree programs





Previous INTERNATIONAL PROJECTS WITH EUROPEAN HEIs AND ORGANIZATIONS

Tempus projects;

- **PERSEUS:** experience on developing innovative capabilities in Central Asia universities: obtained experience and new horizons of development
- **CANDI:** Teaching Competency and Infrastructure for e-Learning and Retraining
- **CIBELES:** Curriculum Invoking Bologna-Aligned Education Leading to Reform in Environmental Studies
- **UZWATER:** Master program in environmental science and sustainable development with focus on water management for Uzbekistan higher education
- **Erasmus Mundus projects;**
- **CASEU** - Central Asian and European Universities
- **Erasmus+ CBHE projects;**
- **ECCUM:** Establishment of Computing Centers and Curriculum Development in Mathematical Engineering Master programme
- **RENES:** Development of Master Programme in Renewable Energy Sources and Sustainable Environment
- **GREB:** Modernization of the Curricula in sphere of smart building engineering - Green Building
- **CLASS:** Development of the Interdisciplinary Master Program on Computational Linguistics at Central Asian Universities
- **EPCA:** Environmental Protection in Central Asia: Disaster Risk Management with Spatial Methods
- **ELBA:** Establishment of training and research centers and Courses development on Intelligent BigData Analysis in CA



ONGOING INTERNATIONAL PROJECTS WITH EUROPEAN HEIs AND ORGANIZATIONS

Erasmus+ CBHE projects;

- European World Talent Camp for Uzbekistan Scientists in Food Science and Technology (**ECAMPUZ**)
- Development of transversal and sustainable skills for the production of electricity and heat from renewable energy (**SILKWAY**)
- Higher Education Modernization to boost Uzbekistan Agricultural system and promote excellence and regional development” (**HEMUA**)
- Internationalization and Quality Assurance of Higher Education in Uzbekistan (**QUARTZ**)
- Innovative Master’s Program in Photonics and Optical Communications to Meet the Needs of the Telecommunications Labour Market in Uzbekistan (**INMACOM**)
- Developing Master’s Programs in Eco-Informatics for the Aral Sea Region (**MECAS**)

- Erasmus + KA 171 ICM- with 10 European universities (Vilnius Business College in Vilnius (Lithuania), Primorska University(Slovenia), University of Padua(Italy), University of Padua(Italy), University of Barcelona(Spain), University of Parma(Italy), University of Porto (Portugal),University of Malaga(Spain), University of Oldenburg (Germany),University of South Bohemi (Czech))

- **European Mathematical Society**-Emerging Regional Centres of Excellence Programme (**ERCE**)
- International Center for Pure and Applied Mathematics (**CIMPA**)

- 18 international education and research projects in progress.



INTERNATIONAL COOPERATION



Foreign countries
35



Staff exchanges
130



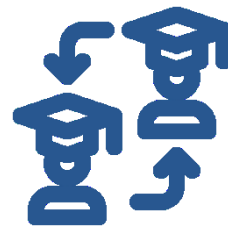
International students
15



Signed documents
211



Joint degree programs
1



Student exchange
95



Foreign Professors
70

Cooperation with International Organizations:

Erasmus+ Program of the European Union



DAAD: German Academic Exchange Service



National Commission of the Republic of Uzbekistan for UNESCO Affairs



Korea International Cooperation Agency (KOICA)



Japan International Cooperation Agency



Turkish Cooperation and Coordination Agency



The Fulbright Teaching Excellence and Achievement (TEA) Program



American Councils for International Education



International Centre for Pure and Applied Mathematics





URGENCH STATE UNIVERSITY NAMED AFTER ABU RAYHAN BIRUNI



President of the Federal Republic of Germany Frank-Walter Steinmeier and his wife Elke Būdenbengler met with representatives and professors, teachers, and students of Urgench State University
29.05.2019

The French Ambassador to Uzbekistan Ms. Aurelia Bouchez visited Urgench State University as part of her visit to the Khorezm region.
20.05.2024

A delegation led by the Ambassador of the Republic of South Korea to Uzbekistan, Mr. Won Do-yeon, visited Urgench State University named after Abu Rayhon Beruni
16.05.2025



Ambassador of the European Union to Uzbekistan Mrs. Charlotte Adrian visited to UrSU
01.02.2023



A cooperation meeting was held with the Extraordinary and Plenipotentiary Ambassador of the USA to Uzbekistan, Jonathan Henik
03.07.2023



URGENCH STATE UNIVERSITY NAMED AFTER ABU RAYHAN BIRUNI

ONGOING INTERNATIONAL PROJECTS WITH EUROPEAN HEIs AND ORGANIZATIONS



Urgench State University hosts summer school on "Lattices, Diophantine Approximation and Heights"
(CIMPA)
06.07.2022-10.07.2022



Summer School Future prospects of perovskite based solar cells: Low carbon energy conversion through advanced functional materials.
14.05.2023-21.05.2023



On May 27, 2025, the 3rd International Al-Khwarizmi Mathematics Olympiad was held in the Khorezm region. Students from leading higher education institutions of China participated in the Olympiad and won gold medals.



A CIMPA school on Lattices, Heights and Diophantine Approximation
24.06.2025-05.07.2024



Summer School on "Conference on Differential Equations and Mathematical Physics"
03.07.2025-10.07.2025

Strategic Plan & Vision

Our Commitment

Delivering academic excellence through innovative teaching and research

Preparing graduates for the global labor market

Ensuring continuous quality improvement in all programs

Future Goals

Expand the range of accredited programs across disciplines

Strengthen international collaborations with universities and industry partners

Increase student and faculty mobility through exchange programs and joint degrees

Foster research and innovation hubs in engineering, technology, and applied sciences

Long-Term Vision

Transform Urgench Ranch University of Technology into a regional leader in higher education

Develop into a globally recognized institution known for excellence, innovation, and impact

Contribute to the economic, technological, and social development of Uzbekistan and beyond



About the Faculty of Physics and Mathematics

- Total number of students: 1724
 - full-time students: 1439
 - part-time students: 250
 - evening learning students: 35
 - female students: 1318
 - male students: 406
- Total number of staff: 112
 - Doctor of Science: 10
 - Ph.D.: 32
 - Visiting professors: 8



Faculty of Physics and Mathematics

Undergraduate, Master's and Researcher Specializations

- **BSc: 4**
- **MSc: 10**
- **PhD: 5**

Master's Degree Specializations

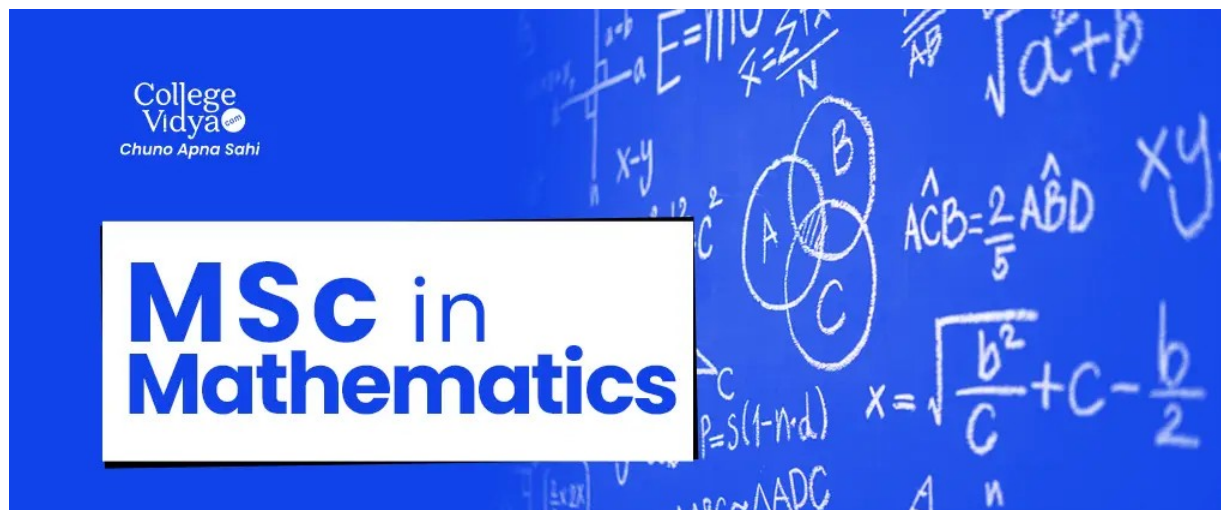
- 70540101 – Mathematics (by specializations)
- 70540101 – Mathematics (Differential Equations)
- 70530501 – Physics (by specializations)
- 70710413 – Renewable Energy Sources
- 70530504 – Semiconductor Physics
- 70530507 – Medical Physics
- 70530601 – Mechanics and Mathematical Modeling (Master's)
- 70540202 – Mathematical Engineering

Undergraduate Programs

- 60540100 – Mathematics
- 60540200 – Applied Mathematics
- 60530500 – Physics Education
- 60530600 – Mechanics and Mathematical Modeling

Researcher Specializations

- 01.01.01 – Mathematical Analysis
- 01.01.02 – Differential Equations and Mathematical Physics
- 01.02.05 – Fluid and Gas Mechanics
- 01.04.04 – Physical Electronics
- 01.04.10 – Semiconductor Physics



Projects of Fundamental and Applied Research at the Faculty

✎ 1. 2025–2027

Project No. FL-8824063312

Title: *Development of a Plasma-Assisted Method for the Synthesis of Composite Catalysts for the Decomposition of Volatile Organic Compounds in Air and Organic Pollutants in Wastewater*

Type: *Uzbekistan–Belarus International Joint Fundamental Research Project*

Project Leader: *Matyakubov Nosir Shihnazarovich*



🖨 3. 2023–2024

Title: *Design and Development of a Computer-Controlled Device for Comprehensive Study of the Influence of Various External Factors on Solar Panels*

Type: *Applied Driver Grant Project funded by Urgench State University (Presidential Decree No. PQ-307)*

Project Leader: *Yakubov Komiljon Ruzmetovich*

⚙ 2. 2023–2025

Title: *Development of Efficient Composite Coatings for Solar Batteries*

Type: *Applied Driver Grant Project funded by Urgench State University (Presidential Decree No. PQ-307)*

Project Leader: *Yakubov Komiljon Ruzmetovich*

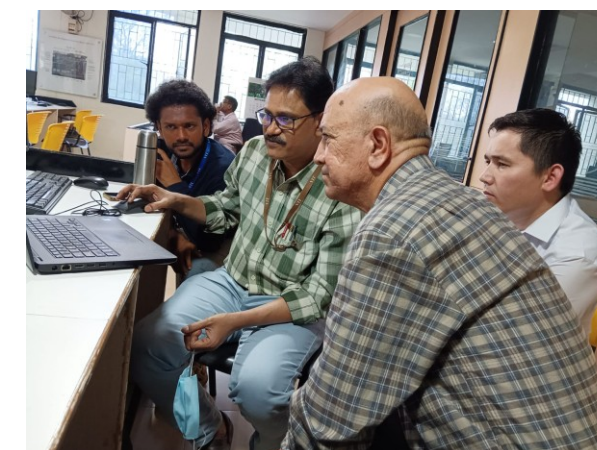
🔬 4. 2021–2023

Project No. UZB-Ind-2021-80

Title: *Study of the Self-Heating Effect in MOF Transistors Based on Gate-Encapsulated Ordered Nanoplates*

Type: *Uzbekistan–India International Joint Fundamental Research Project*

Project Leader: *Atamuratov Atabek Egamberdiyevich*



The Al-Khorezmi International Mathematical Olympiad (AKHIMO) is a mathematics competition for undergraduate students. Its mission is to enhance intellectual potential and inspire students to pursue STEM education. AKHIMO aims to identify and nurture students' creative talents and research interests while fostering an international network and intercultural relationships among participants from various countries. Additionally, it celebrates the significant contributions of Muhammad Al-Khorezmi to fundamental sciences. The primary goal of AKHIMO is to motivate students to engage deeply with the exact sciences and broaden their international collaborations, all while exploring the scientific heritage of Central Asia, particularly Uzbekistan.

Website: <https://akhimo.urdu.uz>



- ❖ The inaugural AKHIMO took place at Urgench State University from October 26-31, 2018, featuring teams from 58 universities, including 35 institutions from 20 countries.
- ❖ The second Olympiad was held at Karakalpak State University from October 23-29, 2023, with participation from 40 universities across 14 countries.
- ❖ The third Olympiad was held at Urgench State University from May 26-31, 2025, with participation from 57 universities across 50 countries.

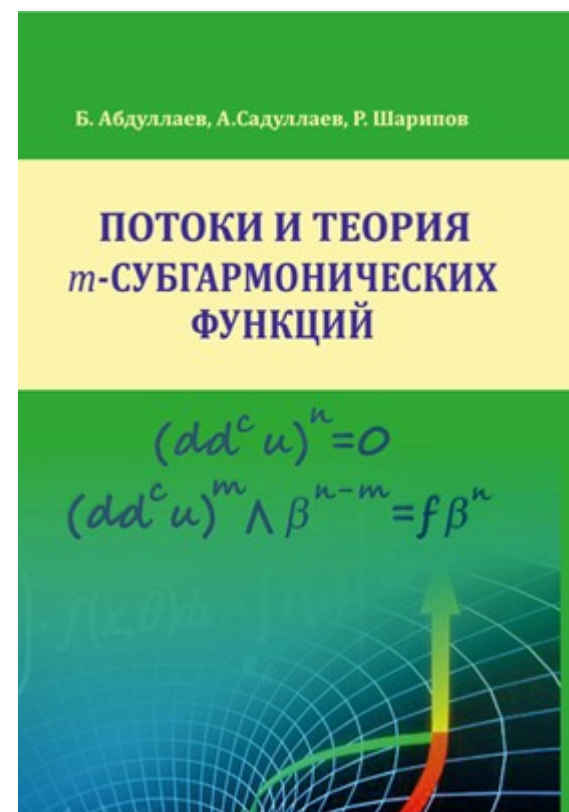


Khorezm Branch of the V.I. Romanovsky Institute of Mathematics of the Academy of Sciences of the Republic of Uzbekistan

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Staff position

Opened in June 2020 under the Urgench State University in accordance with Presidential Decree No. PQ-4708 dated May 7, 2020.

Main scientific directions: *Function theory, Non-associative algebras, Differential equations.*



Master's and Doctoral students



- USA:** California State University (Fullerton), Indiana University (Bloomington), University of Washington
- China:** Sichuan University, Peking University
- Germany:** University of Wuppertal, University of Bayreuth
- Russia:** Siberian Federal University, Novosibirsk State University, V.A. Steklov Institute of Mathematics
- Slovakia:** Comenius University in Bratislava
- Spain:** University of Santiago de Compostela, University of Granada
- Australia:** University of Adelaide, University of Sydney
- France:** University of Toulouse

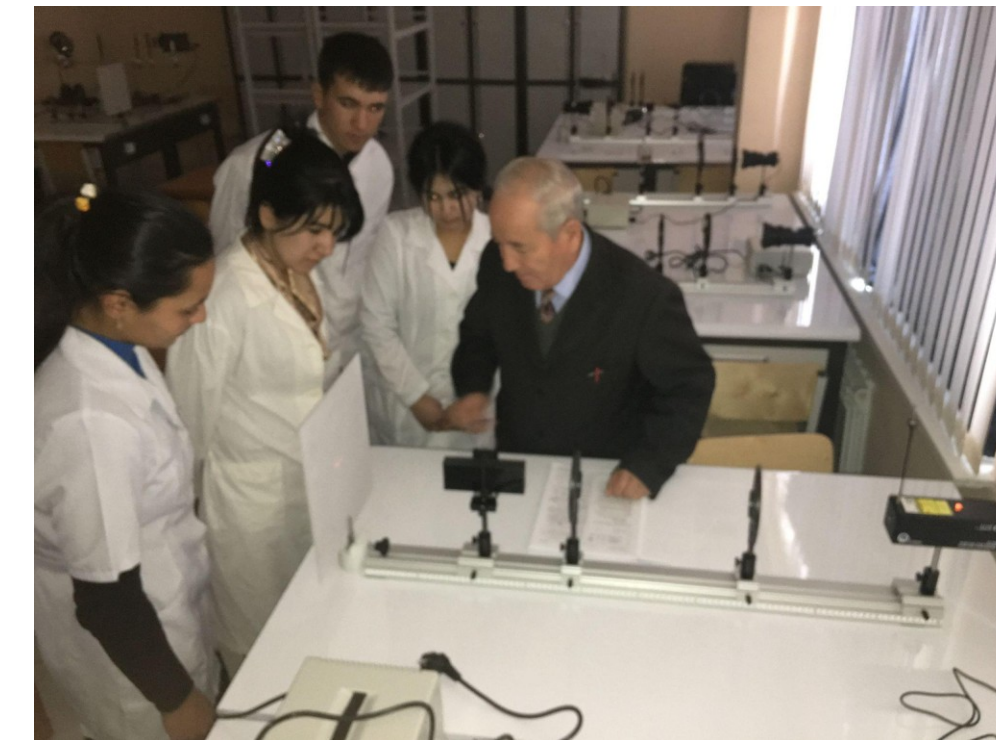
Partners:



EDUCATIONAL LABORATORIES (PHYSICS DEPARTMENT DEPARTMENT



1. Mechanics;
2. Molecular Physics;
3. Electricity and magnetism;
4. Optics;
5. Atom physics;
6. Nuclear Physics.

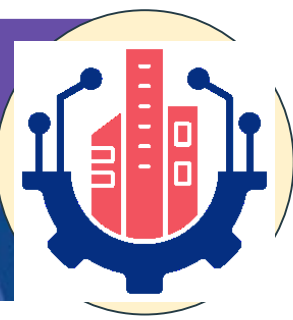


RESEARCH LABORATORIES AT THE PHYSICS

1. Solar cells and solar panels;
2. Functional materials Science;
3. Renewable energy sources;
4. Physical simulation (VASP, Gaussian);



INFRASTRUCTURE



UrSU is a significant higher-education institution in the Khorezm region of Uzbekistan.

Robust infrastructure is critical for its teaching, research, student support, and community engagement.

This report examines current infrastructure, reconstruction efforts, procurement practices, strengths & weaknesses, and provides recommendations for future investment and improvement.

Reconstruction at Urgench State University over the last five years (2021–2025):

SMART academic building (2023)

Parking space (2024)

Library (2025)

Dormitory (2025)



SMART building

