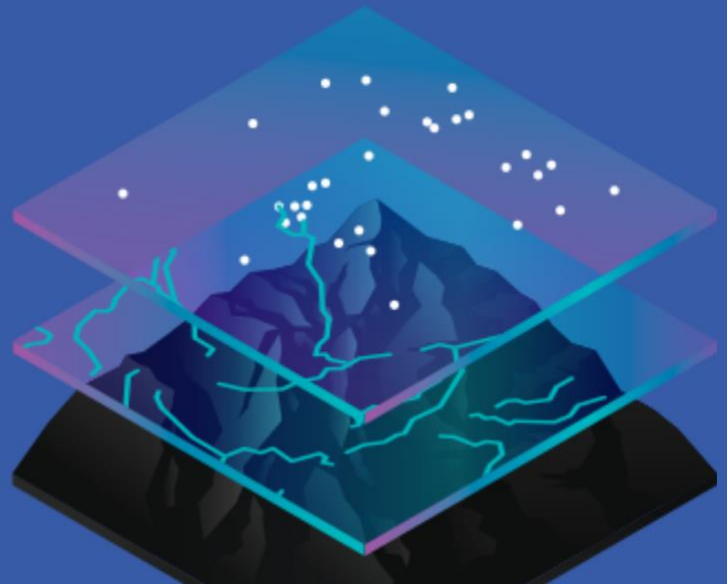
AL-FARABI KAZAKH NATIONAL UNIVERSITY

Scientific-innovative and educational activities in the field of Earth Science and the Environmental Sciences



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https://farabi.university/faculty/5?lang=en

https://farabi.university/science/scientific-and-innovative-infrastructure

FACULTY OF GEOGRAPHY AND ENVIRONMENTAL SCIENCES

Faculty of Geography and Environmental Sciences is the main Scientific-innovative and educational center of Kazakhstan for the training of highly qualified specialists with advanced competencies in the field of Geographical sciences that meet all modern requirements.

КАРТОГРАФИЯ**ГЕОИНФОРМАТИКА**

unesco
Chair for Sustainable Development

Departments:

- Geography, Land Management and Cadaster
- Cartography and Geoinformatics
- Meteorology and Hydrology
- Recreational Geography and Tourism
- UNESCO Chair on Sustainable development

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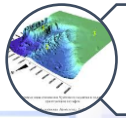
RESEARCH AND INNOVATION ACTIVITIES

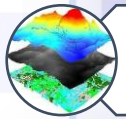
Research and innovation activities are carried out in the following key areas:

Regional climatic changes and their consequences, assessment of the vulnerability of natural and anthropogenic systems in the context of adaptation to climate change

Patterns of formation and dynamics of natural hazards for the purposes of early warning of emergencies, risk management



Patterns of development of ecological and geomorphological processes on the territory of Kazakhstan and their mapping



GIS and remote sensing in environmental management, advanced research and innovation in the agro-industrial complex

Socio-geographical problems of the territorial organization of the population of the Republic of Kazakhstan

Recreational Geography and Tourism

CURRENT RESEARCH PROJECTS

https://farabi.university/science/scientific-research-activity?&active_tab_order=6

№	Project title	Project leader	Period
Targeted financing program			
1	BR18574227 «Scientific and applied rationale for managing the natural and agricultural system to prevent desertification processes in the southern regions of Kazakhstan, to ensure sustainable development of rural areas»	Bissenbayeva S.B., PhD	2023
2	BR21882122 «Sustainable development of natural-industrial and socio-economic systems of the West Kazakhstan region in the context of green growth: a comprehensive analysis, concept, forecast estimates and scenarios»	Askarova M.A., Doctor of Geographical Sciences, Associate Professor	2023-2025
Grant funding for scientific and (or) scientific and technical projects			
3	AP19680487 “Monitoring and management of pasture lands of the Moyynkum sand massif under climate change conditions using remote sensing data”	Bissenbayeva S.B., PhD	2023
4	AP14871372 “Geospatial approach to assessing the risks of climate disasters (drought and erosion) and their impact on agriculture in the Western region of Kazakhstan”	Tokbergenova A.A. Candidate of Geographical Sciences, Associate Professor	2022-2024
5	AP19677682 “Comprehensive geographical assessment of sustainable development of large cities of the Republic of Kazakhstan”	Nyussupova G.N., Doctor of Geographical Sciences, Professor	2023-2025
6	AP09260144 “Rational use of natural tourism and recreational resources of the Republic of Kazakhstan based on assessment of recreational capacity and minimization of anthropogenic impact”	Assipova Zh.M., PhD, Associate Professor	2021-2023

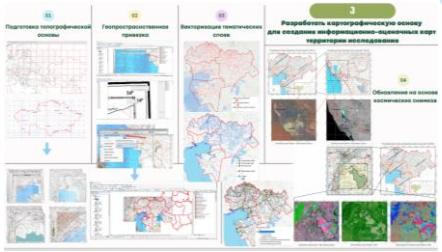
CURRENT RESEARCH PROJECTS

https://farabi.university/science/scientific-research-activity?&active_tab_order=6

№	Project title	Project leader	Period
Grant funding for scientific and (or) scientific and technical projects			
8	AP14869863 «Development of a methodology for assessing the impact of income inequality on the level of use of medical services».	Spankulova L.S., Doctor of Economical Sciences, Professor	2022-2024
9	AP09058590«Monitoring of land degradation and desertification processes in the Talas district of the Zhambyl region using GIS and remote sensing data for sustainable land use»	Laishanov Sh.U., Ph.D	2021-2023
10	AP19679799 “Development of a modified methodology for assessing spatial growth factors and overcoming differences between regions”	Kerimbayev A.R., Ph.D	2023-2025
Grant funding for young scientists			
11	AR19579270 “Cartographic modeling and forecasting of productivity of pastures in Central Kazakhstan based on remote sensing data for the sustainable development of livestock farming”	Kairova Sh.G. Ph.D	2023-2025
12	AP19579264 "Territorial analysis of the Semipalatinsk test site for the creation of an adaptive landscape farming system."	Assylbekova A.A., Ph.D., Associate Professor	2023-2025
Grant funding for young scientists under the “Zhas Galym” project. Postdoctoral studies			
13	AP14972828 “Agroecological zoning and assessment of the current state of pastures in Central Kazakhstan using GIS and remote sensing data”	Shokparova D.K., Ph.D	2022-2024
14	AP15473166-KC-23 “Assessment of the impact of climate change on the water resources of the Ile-Balkhash basin”	Bissenbayeva S.B., Ph.D	2022-2024

Sustainable development of natural-industrial and socio-economic systems of the West Kazakhstan region in the context of green growth: a comprehensive analysis, concept, forecast estimates and scenarios

The goal of the program is to conduct comprehensive research to ensure sustainable development (SD) of natural-economic and socio-economic systems of the West Kazakhstan region (Mangistau, Atyrau, West Kazakhstan and Aktobe regions) in the context of green growth.



Within the framework of the Program, the **following tasks will be solved**, in the context of the SDGs and green growth:

1. Develop a methodological framework and conduct an assessment of the natural resource potential (NRP) of the WKR;
2. Assess the biodiversity of the WKR;
3. Assess the air quality of the WKR;
4. Assess soil contamination of the WKR with toxic chemicals;
5. Assess the ecological state of surface and groundwater in the WKR;
6. Assess the landscape and ecological state of the WKR;
7. Assess the socio-economic development of the WKR;
8. Develop scientific and applied foundations for ensuring the sustainability of natural and economic systems and socio-economic development.

COMSATS CENTRE FOR CLIMATE AND SUSTAINABILITY (CCCS)

https://farabi.university/science/nii/41

COMSATS Centre for Climate & Sustainability is be a multi-stakeholder institute working in the framework of South-South & Triangular Cooperation to bring innovative approaches to plan, fund and tackle climate change challenges in line with the policy and practices of developing countries and their international obligations.

- enhance scientific knowledge on climate change for appropriate climate action and advocacy;
- assess impacts of environmental and climatic variability on livelihoods and economic development;
- combat climate change through mitigation and adaptation for sustainable growth and development;
- improve societal knowledge and capacity building on climate change and environmental issues;
- develop knowledge bank of information and data to inform better evidence based policy making;
- promote regional and global partnerships to take effective action for climate and sustainability

“Sustainable Development and Environmental Management” Research Center

Purpose

To identify patterns of interaction between nature and society in the context of global environmental change, including the development and implementation of green technologies for the rational use of natural resources for the sustainable development of the regions of Kazakhstan

Tasks

- Enhance geographical and environmental education through scientific methodologies, interdisciplinary collaboration, and integration of innovative technologies.
- Investigate natural and anthropogenic environmental changes and implement conservation measures for sustainable development.
- Provide methodological support and consulting for scientific projects.
- Establish a platform for dialogue among experts in green technologies.
- Enhance cooperation with institutions specializing in geography and environmental sciences.
- Address regional geoecological issues and monitoring.
- Develop theories and methods concerning the ecological status of aquatic land complexes.
- Explore remote sensing technologies to assess environmental changes.
- Develop methodologies for ecological and geographical assessments using geoecological models.
- Evaluate threats to biological diversity and develop protective strategies.
- Develop methods for assessing regional ecosystems to preserve ecological diversity.
- Analyze and forecast landscape-geochemical processes across diverse ecological zones in Kazakhstan.
- Provide landscape and geographical insights for regional environmental management policies.
- Analyze and modernize the territorial structures of Kazakhstan in response to national and global challenges.
- Conduct atlas mapping and mathematical modeling for the transformation of Kazakhstan’s nature, economy, and population.

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Laboratories of the “Sustainable Development and Environmental Management” Research Center

01
Climate and Modeling Laboratory

Head: Vladimir S. Cherednichenko, Dr Sc in Geography, Prof.

02
Digital Cartography and Applied Geodesy Laboratory

Head: Aizhan A. Assylbekova, PhD in Geography, Assoc. Prof.

03
GlobalSky Laboratory

Head: Vitaly G. Salnikov, Dr Sc in Geography, Prof.

04
Sustainable Tourism Laboratory

Head: Alexander M. Artemyev, Cand. Sc in Engineering, Honored Instructor of Tourism of the Kazakhstan

05
Modeling the Dynamics of the Qualitative Composition of Water Resources Laboratory

Head: Lyudmila M. Pavlichenko, Dr Sc in Geography, Prof.

06
Geoinformation Analysis of Landscape Degradation Laboratory

Head: Aigul A. Tokbergenova, Cand. Sc in Geography, Assoc. Prof.

07
Geodemographic and Socio-Economic Researches Laboratory

Head: Gulnara N. Nyusupova, Dr Sc in Geography, Prof.

08
Environmental Safety Laboratory

Head: Maulken A. Askarova, Dr Sc in Geography, Assoc. Prof.

09
Soil Ecology Laboratory

Head: Gulzhanat A. Mukanova, Cand. Sc in Biology, Assoc. Prof.

10
Laboratory for Environmental Monitoring and Sustainable Development

Head: Tursynkul A. Bazarbayeva, Cand. Sc in Geography, Assoc. Prof.

Climate and Modeling Laboratory

1. The purpose of the laboratory is to study the manifestation of regional climate changes in the territory of Kazakhstan.

2. Laboratory scientists are developing new methods for solving such a complex task as modeling climate systems. This problem is currently being solved by numerical analysis of complex systems of equations, such as, for example, Models of the general circulation of the atmosphere and ocean.

3. The laboratory scientists intend to develop a fundamentally different approach: forecasting will be based on empirical models obtained from direct analysis of the spatial and temporal dependencies of certain parameters of the climate system

Digital Cartography and Applied Geodesy Laboratory

Purpose

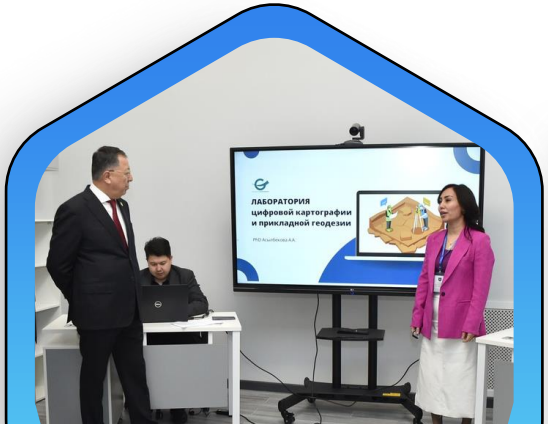
To realize the accumulated research potential of scientists, teaching staff and students of the Department of Cartography & Geoinformatics to solve the problems of the agricultural, construction, mining sectors of the economy of Kazakhstan

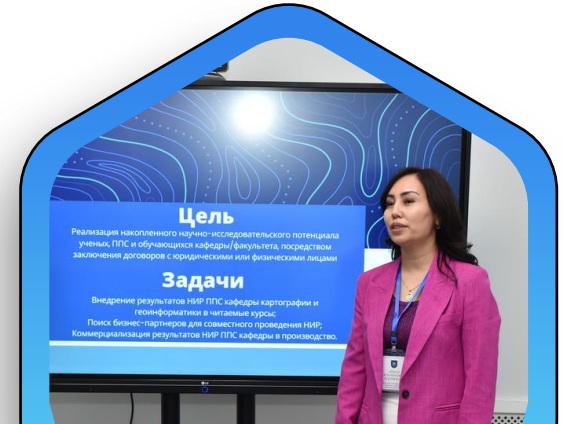
Development plan and tasks

1. Performing applied works and scientific and applied research for the agro-industrial, construction, oil and gas, mining sectors of the economy;
2. Implementation of applied works within the framework of grant and state budget financing;
3. Implementation of applied works within the framework of international projects;
4. Collection and processing of information for submitting articles to scientific journals

Laboratory equipment

Workplaces with computers (monoblocks) for staff accommodation; copying equipment (MFPs); specialized equipment and devices; Aircraft (quadrocopter) DJI Mavic 3 Multispectral with DJI D-RTK 2 High Precision GNSS Mobile Station GNSS Radio Receiver; GNSS receiver SP85 in full kit (base, rover); GNSS receiver E-Survey E300 IMU Pro with VHF in full kit (base, rover); GPR kit MG-250/700MZ, GPR kit Triton-M 25/50/100; SOKKIA-530R electronic total station, FOCUS electronic total station, South electronic total station; Electronic level SPRINTER 50, 250; Traceroute receiver; applied GIS programs; compact safe for storing portable devices and documents





GlobalSky Laboratory

The Innovative Laboratory of Atmospheric Research was established with the aim of developing and implementing advanced technologies and methods for a deeper understanding of atmospheric processes, forecasting weather and the effects of climate change, as well as creating solutions in the field of sustainability and atmospheric air quality management.

The laboratory's activities focus on:

1. Research of atmospheric hazards and risks associated with the consequences of global and regional climate changes, such as droughts and jute, thaws and severe frosts, as well as the creation of an early warning system.
2. To study the dynamics of the available potential of alternative energy sources in the context of reducing the carbon footprint to achieve carbon neutrality.
3. Study and testing of new methods of active effects on atmospheric processes.
4. Study of modern problems of atmospheric air pollution in order to create a quality management system.

SUSTAINABLE TOURISM LABORATORY

Purpose:

To implement the trend of sustainable development of territories through the synergetic effect of tourism in the context of socio-economic development of the region.

Tasks:

1. Conduct comprehensive studies to assess the tourism sector, focusing on environmental, socio-cultural, and economic impacts. Identify key challenges for sustainable development.
2. Develop new methods and tools for assessing the sustainability of tourist destinations and provide recommendations for implementing sustainable tourism principles.
3. Create and conduct training programs and seminars for tourism professionals, academics, and the tourist community. Disseminate sustainable tourism knowledge through various educational formats.
4. Implement pilot projects emphasizing environmental and socio-cultural responsibility, and local community support. Evaluate and replicate successful practices across different regions.
5. Establish and develop partnerships with tourism businesses, government bodies, educational and research institutions, and NGOs. Foster active international collaborations on sustainable tourism.
6. Participate in developing and promoting standards and certification procedures for sustainable tourism entities. Encourage market adherence to sustainability principles.
7. Implement a system to monitor and assess the sustainability of tourism projects. Provide feedback and recommendations for ongoing improvement in sustainable tourism practices.

Modeling the Dynamics of the Qualitative Composition of Water Resources Laboratory

The purpose of the laboratory is to model the dynamics of the qualitative composition of water resources.

Laboratory tasks:

1. Preparation of initial data on the qualitative composition of water resources (pollution parameters, pollution sources, data on the current state of water bodies);
2. Analysis of the chemical composition of water resources at the research site;
3. Performing multispectral surveys of surface water resources and creating an orthophotoplane;
4. Determination of complex indicators of water quality and analysis of possible sources of pollution and the nature of interaction with groundwater;
5. Construction of maps of the territorial dynamics of the intensity of the processes of formation of surface water quality identified by mathematical methods.

Geoinformation Analysis of Landscape Degradation Laboratory

1. The main task of the laboratory is to monitor, evaluate and predict the processes of landscape degradation and develop scientifically sound recommendations for preventing degradation processes using geoinformation technologies (GIS) and remote sensing.

2. The uniqueness of the laboratory lies in the use of remote sensing data to monitor and predict the processes of landscape degradation, as well as in the compilation of models for short- and long-term forecasting of the degree of risk of desertification and the resilience of landscapes to anthropogenic impact in the context of climate change. Researchers have the opportunity to work internationally with international partners such as the Institute of Water Resources, Environment and Health of the United Nations University (Canada), the International Rice Research Institute (Philippines) and Michigan State University (USA).

3. The main areas of work are monitoring, assessment and analysis of risks, cartographic modeling and forecasting of processes of degradation of landscapes and land resources. Development of scientifically based recommendations and requirements to prevent further degradation and restoration of damaged landscapes, as well as the introduction of innovative methods of rational land use.

Geodemographic and Socio-Economic Researches Laboratory

Purpose

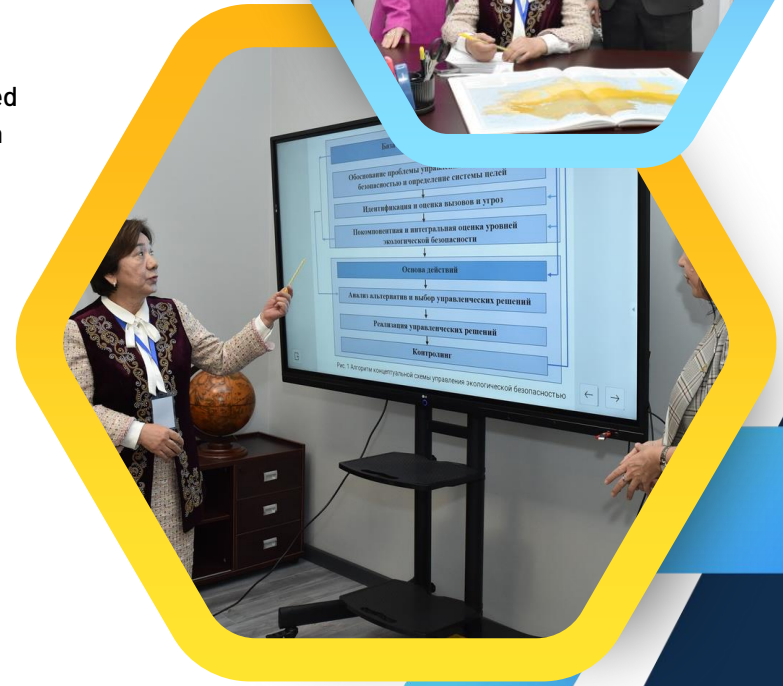
To conduct comprehensive research in the field of geodemography, social and economic geography, includes the study of demographic processes and trends, analysis of socio-economic phenomena and their spatial differentiation, as well as assessment of the impact of these factors on the sustainable development of regions and society

The laboratory is based on the basis of the only demographic school in the republic, which explores such aspects as the relationship of demographic processes with social and economic factors

Laboratory equipment

ArcGIS Pro software, GPSMAP 67 GPS navigator, DJI Air 3 Fly More Combo (RC 2) quadcopter, Canon EOS R6 Mark II RF 24-105 F4-7.1 IS STM system camera and other peripherals and network equipment

ENVIRONMENTAL SAFETY LABORATORY



Purpose:

To develop scientific and applied aspects of environmental safety management based on a comprehensive study of the ecological state of natural and economic systems in Kazakhstan in the context of sustainable development.

Tasks:

1. To develop the concept of environmental safety management of natural and economic systems of the Republic of Kazakhstan.
2. To conduct research on the identification and identification of existing environmental challenges and threats in Kazakhstan as an information basis for ensuring environmental safety.
3. To develop a classification of all types of challenges and threats of a natural and anthropogenic nature in the Republic of Kazakhstan.
4. To investigate and assess the levels of environmental safety in the natural and economic systems of the Republic of Kazakhstan.
5. To develop a scientifically based comprehensive system of measures to manage the environmental safety of natural and economic systems of Kazakhstan.

Soil Ecology Laboratory

The purpose is to carry out fundamental and applied scientific research, taking into account the directions of development of science, education and their implementation in the educational process.

Functions - Research of natural and anthropogenic environmental factors, monitoring, creation of GIS of research objects, creation of a spatial and temporal database and mapping of work results for the purpose of sustainable and stable development of agricultural, industrial and other sectors of the regions of the Republic of Kazakhstan.

The laboratory is equipped with the latest equipment - 99-0578-00 GBC SavantAA Atomic absorption spectrometer; Biological microscope; Desktop soil laboratory NPL-2; Satchel soil laboratory RPL-3; pH meter/ionomer ITAN; Analytical scales VL-124V; Laboratory scales VLTE-510C; etc., which allows you to solve the following tasks:

- to evaluate the main chemical, morphological and physical indicators of the state of soils and soils;
- determine the components in the soil ammonium nitrogen, cation exchange capacity, calcium and magnesium in total, carbonate and bicarbonate ions, etc;
- analysis of solid and liquid samples for the content of various metals in them (most of the periodic table), as well as for quality control of finished products.
- study of low-contrast tissue cell cultures, liquid precipitation, etc.

Laboratory for Environmental Monitoring and Sustainable Development

1. The purpose of the laboratory is to conduct comprehensive research on indicators of sustainable development goals, monitoring the environment and natural resources.

2. The uniqueness of the laboratory lies in the determination of basic indicators of the state of the environment, such as air quality, water, soil, pollution levels, etc.; development of methods for collecting data and monitoring changes based on geodetic measurements, photogrammetry, data from UAVs (unmanned aerial vehicle) and remote sensing; analysis of remote sensing data and images obtained from unmanned aerial vehicles, to identify changes in the physical, geographical and landscape cover; creation of digital maps and models of ecosystems using GIS to visualize and analyze the state of ecosystems.

3. The modern park of devices in the laboratory meets all requirements, all means of equipment are included in the state register of Kazakhstan. Technical equipment consists of basic and portable measuring instruments: Mavic 3 multispectral quadcopter with DRTK station base; Spectra Precision 85 geodetic GNSS receiver; Agisoft, ArcGIS, QGIS, ENVI software for monitoring and processing remote sensing and UAV data. These devices allow you to solve the following tasks:
   - determination of basic indicators of the state of the environment, such as air quality, water, soil, pollution levels, etc.;
   - development of methods for collecting data and monitoring changes based on geodetic measurements, photogrammetry, data from UAVs and remote sensing;
   - analysis of remote sensing data and images obtained from unmanned aerial vehicles to identify changes in the physical, geographical and landscape cover;
   - creation of digital maps and models of ecosystems using GIS to visualize and analyze the state of ecosystems

Kazakhstan-China joint laboratory “Remote Sensing Technology and Applications”

Purpose

China and Kazakhstan will leverage their technological advantages in satellite remote sensing to establish a regional ecological environment monitoring and early warning system that is internationally competitive. This will be achieved through the utilization of remote sensing monitoring, ground observation networks, comprehensive survey and verification by UAV, and other methods. By pooling resources and promoting co-construction and sharing, a high-level international platform will be built in the field of resources and ecological environment for China and Kazakhstan, and even for China and Central Asia. This platform will provide strong scientific and technological support for advancing the construction of the Green Silk Road and promoting regional sustainable development

Research directions

1. Remote Sensing Image Processing and Information Extraction: Research multi-scale and multi-platform remote sensing data processing and information extraction.
2. Ground Monitoring and Product Validation: Establish quantitative inversion models of ecological remote sensing parameters and validate inversion accuracy.
3. Data Products and Sharing Platform Construction: Integrate multi-source data to build an ecological monitoring big data platform.
4. Remote Sensing and GIS Applications in Various Fields in Central Asia: This includes ecological environment monitoring and ecological security assessment, agricultural resources survey and dynamic monitoring, disaster monitoring and early warning, grassland environment monitoring, health diagnosis and assessment of carbon sink potential, as well as the monitoring, pattern, and governance of land degradation processes

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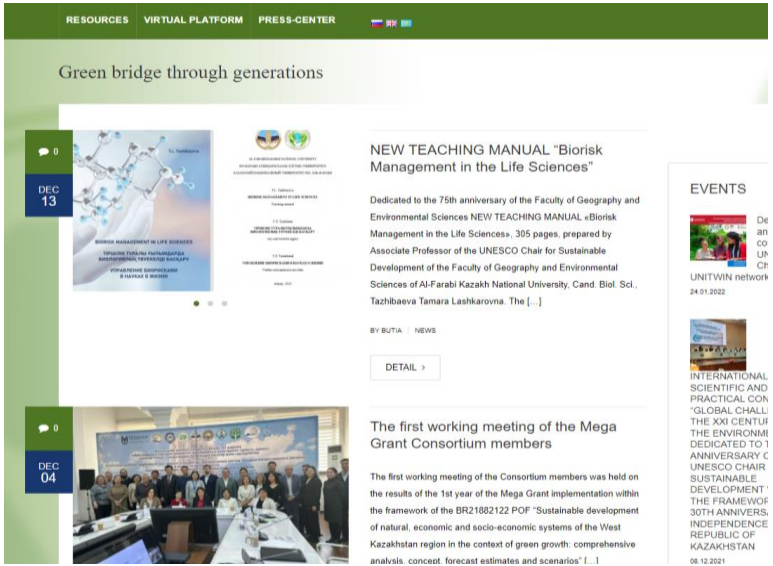
NATIONAL PROJECT
"GREEN BRIDGE THROUGH A GENERATION" (SINCE 2012)

University carries out a lot of work in the field of ecology and resource saving on the basis of the Eurasian platform **"Green Bridge through Generations"**, which was presented at the World Summit on Sustainable Development RIO + 20 in 2012.

The main goal is to involve young people in promoting the “Green Bridge” partnership program, uniting the potential of leading scientific schools in USA, Europe and Asia in the field of sustainable development, training bachelors, master’s and PhD students to promote Green technologies in Kazakhstan.

The Consortium of Universities was created: Implementation of research and social projects, training and professional development of specialists in Sustainable development.

It was created **a Web Communication Platform of Al-Farabi KazNU "Green bridge through generations"**.



http://greenbridgework.kaznu.kz

THE INTERNATIONAL COOPERATION

International cooperation at the faculty is aimed at:

- stimulation of mutually beneficial cooperation;
- exchange, as well as employees, but also undergraduate, graduate, doctoral students;
- organization of refresher courses;
- development and implementation of joint educational programs, including those providing for the issuance of double diplomas, as well as curricula;
- organizing academic meetings and symposia;
- joint research activities.
- publication of scientific papers in periodicals of the partner university;
- exchange of scientific information;
- attraction of leading scientists for the scientific leadership of PhD doctoral students at the partner university.




THE INTERNATIONAL COOPERATION

Academic mobility of students

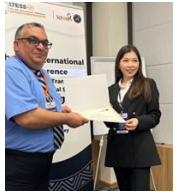
- Within the framework of the program of the Ministry of Science and Higher Education of the Republic of Kazakhstan;
- Erasmus+ (Inholland University of Applied Sciences, the Netherlands, University of Salzburg Salzburg, Austria);
- Interuniversity agreement.

Research internships for MSc and PhD students

- Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences
- Polytechnic University of Valencia;
- Bosphorus University;
- Yildiz Technical University;
- BILIM University of Antalya;
- Russian Hydrometeorological University and etc.

Invited foreign professors

- Within the framework of the program of the Ministry of Science and Higher Education of the Republic of Kazakhstan
- Foreign professor on staff
- Guest lecture
- As part of the Fulbright Research Fellowship Program



Joint research

- Sino-Kazakhstan Joint Laboratory for Remote Sensing Technology and Applications -2024
- Application research project “Joint development and application demonstration of typical natural resource element remote sensing monitoring technology in Center Asia”
- Central Asian Regional Action Plan for the Development of Green Technologies

INTEGRATION IN THE WORLD EDUCATIONAL SPACE

All educational programs of the faculty have been internationally accredited (***ASIIN e.v., FIBAA, ACUINUS, KazSEE)***, and they also occupy leadership positions annually among higher educational institutions of the Republic of Kazakhstan in the national ranking of the National Accreditation Center of the Ministry of Education and Science of the Republic of Kazakhstan (Independent Agency for Quality Assurance in Education, IAAR, Atameken, etc.)

Al-Farabi KazNU has received confirmation from the World Tourism Organization (***UNWTO***) on the conformity of the quality of undergraduate and graduate educational programs for the Tourism program to the international level (passed the ***UNWTO.TedQual*** international certification).

EDUCATIONAL PROGRAMS-49

BA - 13

- 6B05205 - Geography
- 6B07303 - Land management
- 6B07304 – Cadastre
- 6B05203 – Hydrology
- 6B05204 - Meteorology
- 6B07301 - Geodesy and cartography
- 6B07302 - Geoinformatics
- 6B05206 - Natural and technogenic risks
- 6B11101 - Tourism
- 6B11103 - Restaurant business and hotel business
- 6B05202 – Ecology
- 6B11201 - Life safety and environmental protection
- 6B11202 - Environmental Engineering

MSc - 23

- 7M01505 - Geography
- 7M05203 - Geography
- 7M07304 - Land management
- 7M07305 - Cadastre
- 7M05204 - Geospatial Environmental Management
- 7M05205 - Geography (URFU)
- 7M05206 - Hydrology
- 7M05207 - Meteorology
- 7M05209 - Geoecology and environmental management
- 7M05210 - Natural and technogenic risks
- 7M05211 - Ecology
- 7M05213 - Ecology and nature management (BelSU)
- 7M05216 - Ecological soil science
- 7M11201 - Life safety and environmental protection
- 7M07301 - Geodesy
- 7M07302 - Geoinformatics
- 7M07303 – Cartography
- 7M07307 - Big Data in geodesy
- 7M11101 - Tourism
- 7M11102 - Tourism (RUDN)
- 7M11103 - Tourism (BelSU)
- 7M11104 - Restaurant business and hotel business
- 7M11106 - Management of hotel and restaurant business (BelSU)

PhD - 13

- 8D01503 – Geography
- 8D05202– Geography
- 8D05203 – Hydrology
- 8D05204– Meteorology
- 8D07303 - Картография
- 8D05206– Natural and technogenic risks
- 8D05207– Ecology
- 8D07301– Geodesy
- 8D07302– Geoinformatics
- 8D07304– Land management
- 8D07305– Cadastre
- 8D11101– Tourism
- 8D11102– Tourism and hospitality

Thank you for your attention!

Faculty of Geography and Environmental Sciences

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We invite you to cooperation!