



KAZAN FEDERAL UNIVERSITY INTERNATIONAL ACTIVITY REPORT 2020

issued by the International office of KFU



Kazan, April 2021

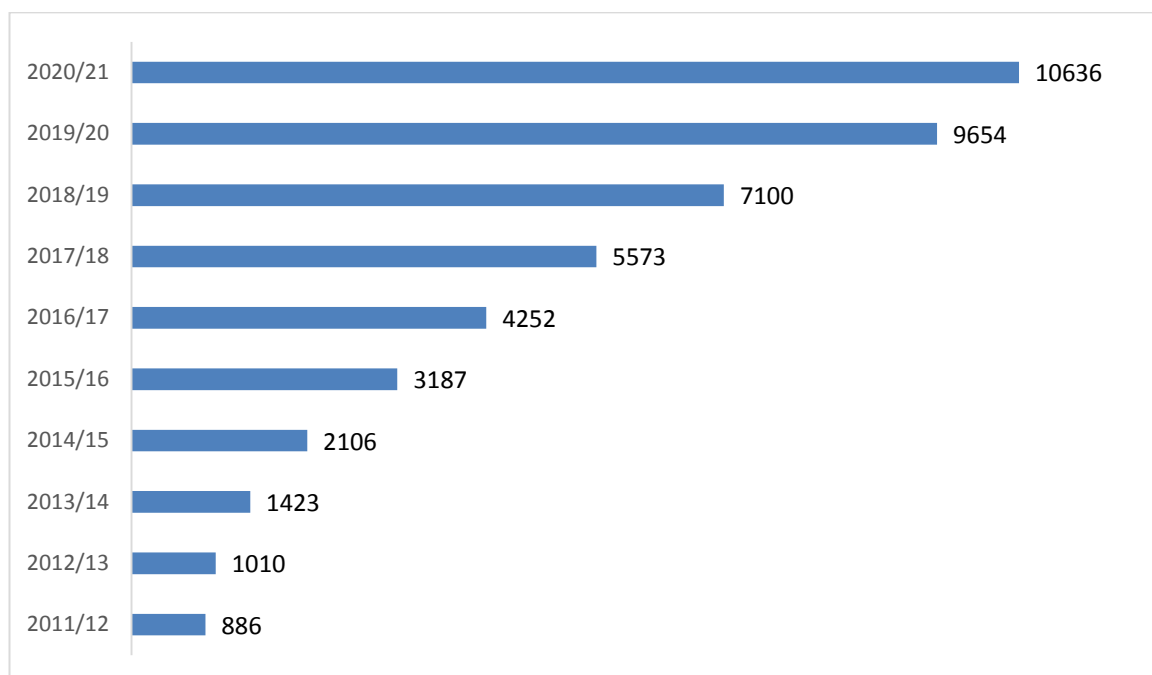
The strategic objective of Kazan Federal University is to enhance its prestige, raise academic and R&D reputation, and achieve a high international level of its academic programs and global leadership in the priority research areas in order to enter the world Top-100 universities.

Integration of Kazan Federal University (hereinafter - KFU) into international academic and research environment as well setting its positions at the international level are provided for through the implementation of the following mechanisms: development of partnerships and network cooperation with leading universities, world research centers and organizations; invitation of international staff members and students; extending mutual academic mobility; participation at international projects and collaborations, entering international academic alliances and associations, holding at KFU international high-impact events and carrying out target-oriented information campaign.

ACADEMIC EXPORT

One of the main priority areas of Kazan Federal University's activity makes the development of **academic export** under which the number of international students is continuously growing. Owing to the participation at 5-100 Project and the implementation of the Program for enhancing KFU competitive ranking, over the last five years the University has been occupying the leading positions in terms of academic export not only among the higher education institutions of the Republic of Tatarstan and Volga Federal Region, but in Russia in general. As far as the absolute number of international students (10 636) is concerned, KFU is currently occupying the second place in Russian Federation right behind RUDN University. In the framework of "International students percentage" criterion of QS rankings KFU has managed to enter TOP 200 (198th place).

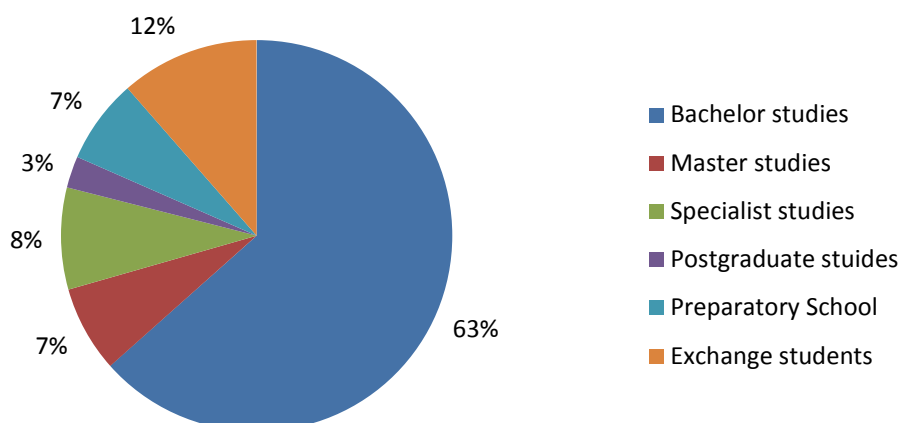
Totally, in comparison with 2013 a 7-time increase in the amount of foreign students at KFU has occurred.



Dynamics of international student number at KFU (all programs and forms of education)

Under 2020-admission campaign, by number of applications submitted by prospective students via electronic systems of Rossotrudnichestvo, KFU managed to enter the top three Russian universities (10 939 applications) after Saint Petersburg State University and the RUDN University.

10 636 international students from **106** countries took their studies at KFU in 2020: including **8 506** taking main educational programs (Bachelor, Master, Specialist degrees), **203** enrolled in postgraduate studies and **25** were the students of Residency. The split according to the form of studies was the following: government scholarship (special quota) based studies – 682, budget-funded studies – 643, tuition fee-based studies – 7592. The percentage of international students among the general number of students taking studies under main educational programs (Bachelor, Master, Specialist degrees) has reached 20,3% (19,2 % at the main University) in the reporting year.



International students at KFU, different levels of studies, 2020

The countries of Central Asia, including Uzbekistan, Kazakhstan, Tajikistan, Turkmenistan, as well as Latin American countries and the People's Republic of China remained the target regions for KFU in 2020 when it comes to the enhancement of the potential of its academic export. The cooperation with these countries is being developed in the framework of Eurasian Economic Union, interstate agreements at the level of the Russian Federation and owing to the consolidation of economic and socio-humanitarian ties of the Republic of Tatarstan. Bilateral academic mobility of staff members and students, implementation of joint educational programs, participation at research and academic events, holding career-guidance events and subject Olympiads have outlined the main spheres of partnership. The increase of the amount of international students from Central Asia served an outcome of the active promotion of the KFU brand in the region: in the reporting year **6739** students from Kazakhstan, Uzbekistan, Tajikistan and Turkmenistan studied at KFU (70% of the total percentage of international students).

In 2020 in the framework of the events oriented at the **international students recruitment** KFU took part in **11** international educational exhibitions and publicity tours, including:

- **Thirteenth stage of the educational project “Universities in Russia”** based at the Russian center of science and culture, Hanoi (Vietnam) – February 24, 2020;
- **Presentation of KFU programs** for secondary school students in Istanbul (Turkey) – February 28, 2020;
- **Selection procedures** for studies under the scholarship of the Government of the Russian Federation according to the quota for studies of foreign nationals and stateless persons of the Russian Federation, Jordan, March 12-18, 2020;
- **Online meeting with the Rossotrudnichestvo branch with** Lebanese students involving the participation of Russian universities, Beirut (Lebanon) – September 25, 2020;
- Information online project of the Rossotrudnichestvo branch in Lebanon **“Discovering Russian leading universities in cooperation with Russian center of science and culture in Beirut”**;
- Joint presentation of KFU and the **Rossotrudnichestvo branch in Argentina on education opportunities in Russia** for potential prospective students – November 12, 2020;
- KFU presentation for the students of **“Julia school”**, pre-university center (Kazakhstan) via ZOOM online platform – December 17, 2020.

Apart from that, the external advising sessions dedicated to the admission issues were organized in Uzbekistan, Tajikistan, Kazakhstan and Kyrgyzstan. Currently Kazan Federal University possesses **22** agreements concluded with recruiting agencies, the majority of which operate on the territory of Asian, Latin American, Middle Eastern countries and through which **327 students** were recruited for studies at KFU under main educational programs and at the pre-University school in 2020.

Due to a complicated epidemiologic situation in the world and the lack of possibility to go abroad for carrying out offline events the geography of the KFU admission campaign became significantly wider and included representatives from all the continents.

In total in the reporting period, **68 online events** in various languages (Russian, English, French, Arabic, Chinese, Spanish, Turkish and others) were held by KFU staff members with international school pupils via MS Teams and Zoom platforms. Each meeting was unique in its format: Open Day, International Dialog or Scientific lecture.



Information online project of the Rossotrudnichestvo branch in Lebanon “Discovering Russian leading universities in cooperation with Russian center of science and culture in Beirut”(October 23, 2020);



Visit of the delegation of Elabuga Institute to Tajikistan, meeting with the pupils of Presidential schools, Tajikistan (February, 2020)



Joint presentation of KFU and the Rossotrudnichestvo branch in Argentina (November 12, 2020)



Live streaming dedicated to the studies of international students at KFU, broadcasted by UNIVER TV (December 17,2020)

Kazan Federal University continues developing international cooperation in the sphere of design and implementation of joint (network) academic programs **45** joint academic programs of higher education with foreign universities, research organizations, leading **to obtaining joint degrees**, were carried out in 2020. Generally, 689 students, including 607 foreign nationals pursued studies under these programs in 2020. 10 Russian and international students received the diplomas of KFU and partner universities.

The list of joint academic programs with foreign partners increased in 2020 by the following ones:

- Bachelor degree program with Fergana State University - 44.03.01 “Pedagogical studies. Russian language”;
- Master degree program with Technical University Dresden - 44.04.01 “Pedagogical studies. Foreign languages in the field of professional communication”
- 2 programs of Erasmus+Joint Mobility Programme with the Open University of Cyprus and

the University of Huelva, Spain;

- 2 Specialist degree programs – “General medicine” jointly with Bukhara State Medical Institute and Urgench Branch of Tashkent Medical Academy

- Residency Program with Kanazawa University - 31.08.30 “Genetics”.

In 2020/2021 academic year the selection procedures for Petroleum Engineering Master program of the KFU Institute of geology and oil and gas technologies and Imperial College London, UK took place with the support and funding of Rosneft and BP Russia. As a result, 10 KFU students obtained scholarships.

SMARTI Project developed by the scholars from 15 higher education institutes of Russia, Germany, Great Britain, Portugal and Armenia, including KFU became the winner of Erasmus+ Capacity Building program and received grant for 2021 – 2024 years. Main objectives of the project are: the development and launch of Master programs in English in the field of Natural Sciences and the *opening of the Center of research in English language as the learning medium*. After the end of the project the Center will help in implementation of the studying practices in the English language for all stages and coordination of the partner universities’ activity.

Meanwhile KFU is constantly increasing the number of **academic programs in the foreign (English) language** – **30** Bachelor, Master, Specialist and Postgraduate programs of this type were carried out at KFU in the reporting period with **5** new programs (Bachelor and Master levels) launched in 2020.

For the sake of distant education development KFU has launched *Stayin, Alive! First aid in Emergence*, an online course at **Coursera online platform**. To teach all the willing to be able to detect life-threatening states and to provide first aid makes the purpose of the course that the faculty of the KFU Institute of fundamental medicine and biology deliver in English.

KFU continues an active cooperation with international companies in the framework of **supplementary professional education** development. **19** joint programs of supplementary professional education mostly based at the **CENTER FOR ADVANCED TRAINING, QUALITY MANAGEMENT AND MARKETING** of the Institute of Geology and Oil and Gas technologies in cooperation with leading international companies– including Schlumberger, Trimble (USA), Cupet (Cuba) were held.

The implementation of several supplementary professional education programs in online format turned out to be a peculiarity of the reporting period. In this aspect on November 23-27, 2020 an international Latvian project in the framework of the Agreement between KFU and Conexus Baltic Grid company (Latvia) took place. 19 staff members of the company had an online advanced training course. This course turned out to be the first one carried out by the **CENTER FOR ADVANCED TRAINING, QUALITY MANAGEMENT AND MARKETING** under ‘Rational utilization of planet’s liquid hydrocarbon reserves’ world-class scientific center founded in 2020.

The development of a joint supplementary professional education program with China University of Petroleum started at KFU in 2020. It is oriented at the professional re-training of the CUP Master students in the framework of the Petroleum geosciences program at Kazan Federal University.



Awarding ceremony for the best international students of the KFU Preparatory School (July 2020)

The staff members of Cupet (Cuba), petroleum company, became Master students of the joint program “Development of hard-to-recover and unconventional hydrocarbon fields” (September 2020)



KFU International students at the educational and health center Yalchik (July 2020)

The head managers of the companies of Belarus and Kazakhstan had training at the CENTER FOR ADVANCED TRAINING, QUALITY MANAGEMENT AND MARKETING of the KFU Institute of geology and oil and gas technologies (March 2020)





Alan Rodriguez Rojas, postgraduate student of the KFU Institute of geology and oil and gas technologies became winner of the young scientists' contest of the International conference "Chemistry of oil and gas" (Tomsk, 28 September– 2 October, 2020)

The launch of Stayin, Alive! First aid in Emergence course at the Coursera, online international platform (December, 2020)



One of the priority areas of the KFU international cooperation development is the increase of the international mobility programs. Consequently, **698** international students from **24** countries were involved into studies at KFU (excluding international citizens taking studies under main educational programs) in the framework of international student mobility programs. However, COVID-19 pandemic and the restrictions it led to provided for the decrease in the number of international students in comparison with 2019.

The most fruitful collaboration in the field of incoming student mobility is carried out with the Universities of China (126 students), Republic of Korea (37 students), Kazakhstan (30 students), Germany (26 students), Turkey (24 students), Japan (20 students). **9** new agreements, implying the student exchange development between KFU and leading universities of Germany, Spain, Italy, Cyprus, Kazakhstan and Uzbekistan and increase in incoming mobility were signed in the reporting period.



Internship of the students of International entrepreneurship department of the TOBB University of Economics and Technology (Turkey) at KFU (February-September 2020)



Students of the Beijing Union University completed their studies under "Molecular biotechnology", KFU academic program delivered in English



School of young researchers of the world cultural heritage (108 international participants from 80 countries of the world, February 20-22, 2020)



KFU and Kanazawa University cultural exchange program (Japan in online format) (67 participants, July 27-31, 2020)



VII International school-conference “Space science”, December 15-17,2020 (200 school pupils and students of Russia and Kazakhstan)

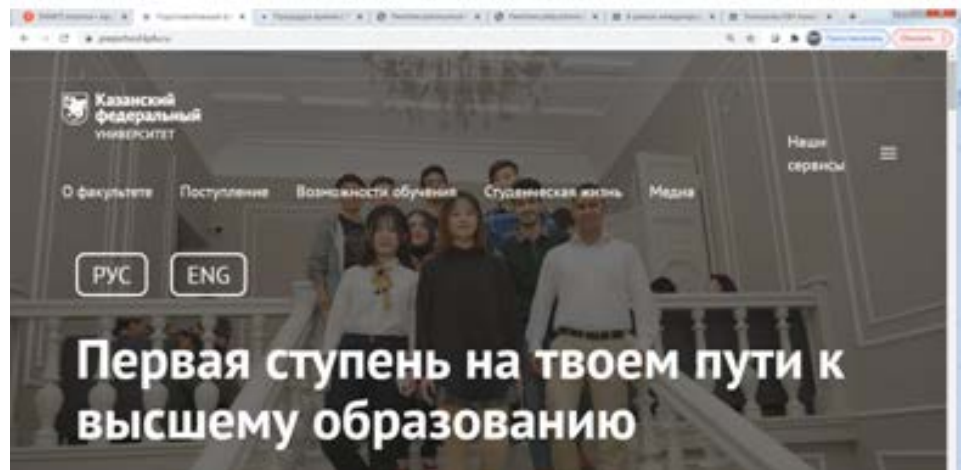
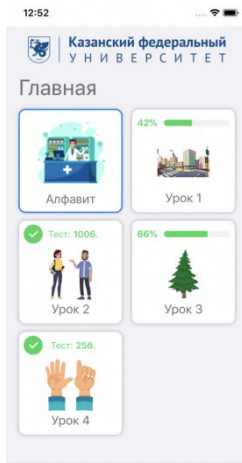


International winter school in History “The Second World War in historiography and historical memory” in online and offline format, December 15-19, 2020 (1800 Students from 20 countries)

The formation of **favourable university environment for international students**, based on the development of digital services, makes a priority area for KFU. The interuniversity project launched in 2020 is aimed at creation of a scalable multilingual service environment for international students that would provide for their effective adaptation and that would be supported by intellectual digital technologies. In the project’s framework the following aspects are worked at:

- establishment of a multi-functional smart center, offering a wide spectrum of services for international students, is in course
- already functioning digital services have been developed,
- a new English version of the University’s website and a new site of the KFU Preparatory School for international students have been launched.

Apart from that, an original ecosystem of digital services for learning Russian as a foreign language is being created at KFU. It includes the development of a special application for improving pronunciation based at the speech recognition system and the launch of a special educational platform.



Как заселиться в общежитие вновь прибывшим студентам 1 курса

Migration registration procedure

About migration registration

If you are a foreign national or a stateless person, you must undergo migration registration procedure at the International Office of KFU at latest 3 days after your arrival to Russia. The procedure is obligatory if you enter the country under both visa free and visa required regimes.

All foreign nationals have to comply with the provisions of the Constitution and the state legislation of the Russian Federation

If a foreign national or a stateless person violates the terms of entry regulations, migration registration, and residence norms, the administrative fine shall be imposed

Remember to undergo the migration registration procedure every time you enter the Russian Federation!

Scan the QR-code for more detailed information

Prepare the following documents, necessary for migration registration:

- YOUR PASSPORT
- YOUR MIGRATION CARD
- Accommodation rental contract (for dormitory, apartment, hostel)

If you have questions, contact Passport and Visa Support Unit of the KFU International Office
visa_service@kpfu.ru

ШАГ 1

- Прибыть в дом № 7 Д.У.
- Получить Лист оформления
- Пройти инструктаж по технике безопасности

ШАГ 2

- Оформить медицинский полис
- Пройти медосмотр для заселения в общежитие в Студполиклинике.
- Получить направление на заселение

ШАГ 3

- Получить договор найма жилой площади
- Заполнить арматурный лист
- Заселиться в общежитие
- Получить пропуск в общежитие

ШАГ 4

- Пройти миграционный инструктаж
- Встать на миграционный учет, продлить визу

ШАГ 5

- Сдать повторный тест на COVID-19 (в случае прибытия из-за границы)

ШАГ 6

- Получить допуск к занятиям

ACADEMIC MOBILITY OF KFU STAFF AND STUDENTS

The increase in participation of KFU staff and students at the programs of **international academic mobility** is achieved through general University exchange agreements with 90 universities from 26 countries under Erasmus+ Program, as well as “Algarysh” Grant program of the Republic of Tatarstan Government jointly with DAAD German Academic Exchange Service. **172** KFU students were granted funding for participation at the international academic mobility with 67 foreign universities from 18 countries in 2020.

In the reporting year the most active cooperation in the field of student exchange was

developed with the Universities of Germany (44 students), China (24 students), Republic of Korea (20 students), Japan (10 students).



Liliya Chernova, KFU postgraduate student, won the scholarship of the President of the Russian Federation, for studying at JLU (Germany) (August 2020).



Internship of the Master students of the KFU Institute of geology and oil and gas technologies at Freiberg University of Mining and Technology (Germany) the joint degree program



KFU students were participants of the Project for studying Arabic language aimed at the students from Russia, Belarus and Ukraine, initiated by Al-Hadara, Center of Arab culture of the KFU Institute of international relations during the year of the humanitarian cooperation between Russia and Egypt and carried out jointly with the Russian Center of science and culture in Alexandria (January 2020)



From October 2020 Master students of the second year of study of the KFU Institute of geology and oil and gas technologies have been studying at Imperial College London (UK) in the framework of Petroleum Engineering joint Master degree program.

The total number of **academic and research staff members**, that took part at international academic mobility programs in the reporting period made **551** (without repetition), including **92** visits to the host organizations. KFU staff members visited **46** foreign educational and research organizations in **27** countries, among them **17** being leading universities and organizations, that enter TOP-400 of QS, ARWU, THE and other university rankings. Among the most visited countries were Germany (12 visits), Turkey (11 visits), UK and France (9 visits), Tajikistan and Spain (7 visits), Japan (6 visits).

Borders closing and the transfer of academic mobility into virtual (online) format put a strain on organizing academic mobility programs, including internships, advanced training, administrative visits and negotiations. International virtual (online) events held not in the premises

of particular scientific and academic organizations but rather by separate associations and unions via MS Teams and Zoom platforms have become the basic type of organizing international academic mobility.

In the reporting period there were **678** participations (online and offline) of research and academic staff members at the international academic mobility programs, including **217** international scientific events: symposia, conferences, seminars held abroad. **197** events took place online and **20** took place offline involving delivering reports and poster presentations.

Distant format of international scientific events provided for the extension of participation geography, as well as for the growing number of the academic and research staff members that took part at such events (2019 – 139 participants, 26 countries; 2020 – 678 participants, 54 countries). The countries where international scientific events with high percentage of KFU faculty presence were held are the following: Spain (130 participants), the Netherlands (70 participants), the USA (48 participants), People's Republic of China (28 participants), Kazakhstan (26 participants), Germany (25 participants), Czech Republic (25 participants), Bulgaria (23 participants) and United Kingdom (23 participants).

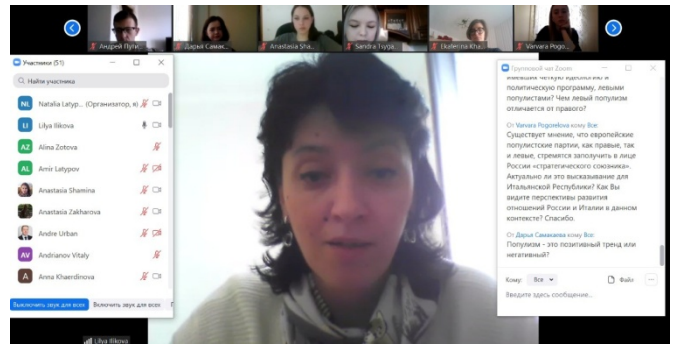
KFU faculty took the most active part at the following international events:

- 54th Annual Scientific Meeting of the European Society for Clinical Investigation (ESCI), 20-30.09.2020 – European Society for Clinical Investigation, Netherlands – 66 participants (33 reports);
- 15th annual International Technology, Education and Development Conference 2020, 2-4.03.2020 –Barcelona, Spain– 57 participants (28 reports);
- INTED2020 Proceedings: The 14th annual International Technology, Education and Development Conference, 2-4.03.2020 – University of Valencia, 29 participants (10 reports);
- 18th IEEE East-West Design & Test Symposium (EWDTS-2020), 4-7.09.2020 – Varna, Bulgaria – 20 participants;
- 7th International Conference on Vehicle Technology and Intelligent Transport Systems, 2-4.05.2020 – Czech Republic – 13 participants;
- Kanazawa University Japan-Russia international symposium on medical sciences 29.09.2020 – Kanazawa University, Japan – 11 participants.

The faculty of KFU have also taken part at the following prestigious scientific events:

- European Geoscience Union General Assembly 2020, 4-8.0.2020 – Vienna, Austria;
- 3rd RSC-BMCS / RSC-CICAG Artificial Intelligence in Chemistry, Biological and Medical Chemistry Sector (BMCS) and Chemoinformatics and Computer Applications Group (CICAG), 28-29.09.2020 - UK;
- 26th EAA Virtual Annual Meeting, 24-30.08.2020 - Hungary;
- EMBO | EMBL Symposium: Organoids: Modelling Organ Development and Disease in 3D Culture, 21-24.10.2020 – Germany;
- EUROCALL-2020 – European Association for Computer-Assisted Language Learning – EUROCALL, 26.10-6.11.2020 – Copenhagen, Denmark;
- XXXIIIrd General Assembly and Scientific Symposium of the International Union of Radio Science, 29.08-5.09.2020 – Sapienza University of Rome, Italy and others.

Kazan University participates at the “European School” project, carried out by the government of the European Union on the territory of Russia since 1999 in the form of educational seminars. Lilia Ilikova, the Deputy Director for international relations of the Institute of International Relations was the speaker of the project from KFU.



Sergey Melnikov, research fellow from the KFU Institute of physics, took part at the around-the-world expedition dedicated to 200th anniversary of the discovery of the Antarctic on Pallada ship



Research fellows of the KFU Laboratory of intellectual and robotic systems presented educational programs at the Indian Institute of technology in Delhi (India) (February 2020)

Head of the KFU Laboratory of intellectual and robotic systems delivered presentation at the 2020 International Conference on Artificial Life and Robotics (ICAROB 2020) (January 13 – 16, 2020)



KFU INTERNATIONAL STAFF

348 academic staff members, including 117 professors, representatives of 117 scientific and educational organizations from 48 countries, attended KFU events with the purpose of participation

in academic mobility in 2020. The mobility of these incoming academic staff members had the following directions in the reporting period:

- advanced training/ research stay (carrying out research, gathering materials for prospective research, studying breakthrough research methods) - 30 staff members;
- advanced training/ teaching perfection stay (designing courses, studying breakthrough educational technologies and teaching methods, language stays) – 16 staff members;
- participation at the scientific events (delivering reports and moderating sections at the conferences) – 183 staff members;
- another mobility category, approved by the University’s local acts regulating academic mobility matters (official visits, negotiations and others) – 119 staff members;



Visit to KFU of Pr. F.Matsuno (Kyoto University), Pr. M. Svinin (Ritsumeikan University) and Pr. J. Sutakorn (Mahidol University) in the framework of ‘Information System of Emergency Situations Management in the areas of Floods and Landslides with Assistance of Distributed Heterogeneous Group of Robots’, joint research project financed by RSF, JST and NSTDA. Signing of the four-party agreement on scientific cooperation (March 2020)

Public lecture of Adriana Paluszny, professor of the Imperial College London under ‘Petroleum Engineering’ joint master program (February 28,2020)



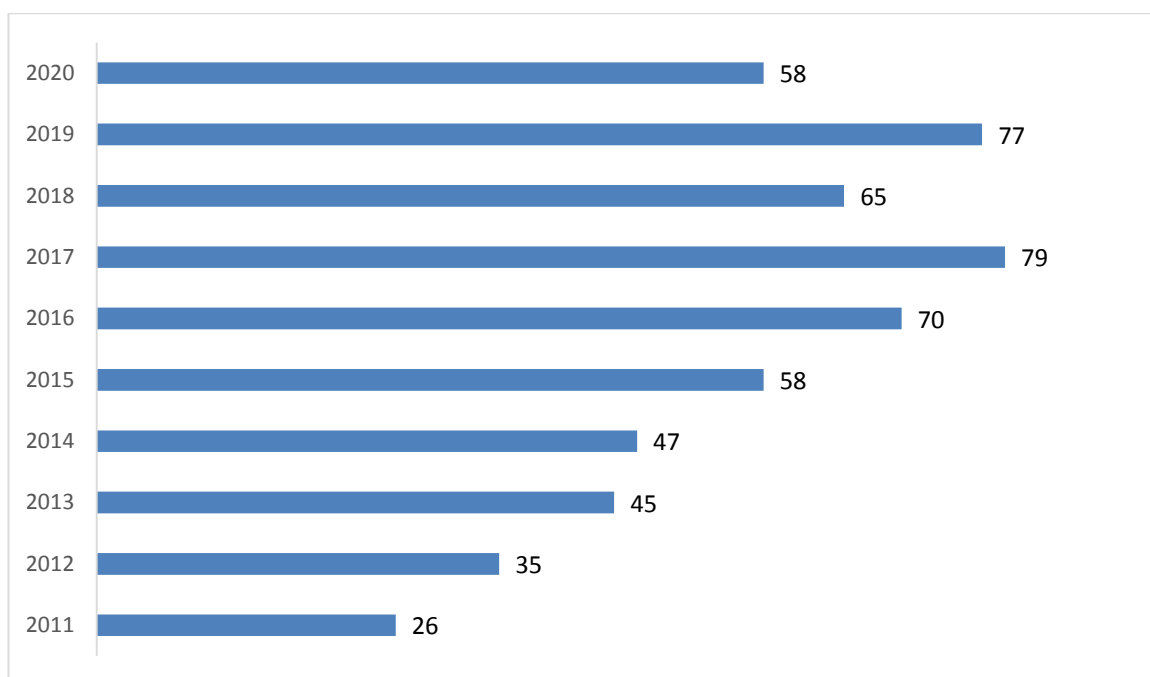
Visit to KFU Institute of geology and oil and gas technologies of Martin Blunt, professor of the Imperial College London. The foreign expert delivered lectures to the master students of the Petroleum Engineering master program, had an open meeting with students and faculty of the Institute. He also managed to take part at The Digital Transformation Forum, held by KFU and Times Higher Education.

INTERNATIONAL RESEARCH ACTIVITY

In 2020 KFU staff members participated in **58** major **international research and**

academic projects in cooperation with international organizations, functioning in the field of science and education, for example:

- Small molecule stabilizers/activators of mutant p53 (2019-2020), together with University of Southampton (United Kingdom), within the framework of joint grant of Russian Foundation for Basic Research (RFBR) and The Royal Society, (London, UK);
- Damage recovery Management Information System for Floods and Landslides with Distributed Heterogeneous Group of Robots (2019-2021), together with Kyoto University (Japan) and Mahidol University (Thailand), within the framework of RFBR grant;
- Digital economy in Russia and abroad: legal control, perspectives of global integration (2019-2021), together with University of California (USA), Goethe University Frankfurt (Germany) and University of Kiel (Germany), within the framework of grant of Russian Science Foundation (RSF);
- Magnetic and transport properties of triple iron chalcogenides with reduced dimension (2019-2021) in cooperation with the University of Augsburg (Germany);
- Structural aspects of the mechanism of action of the cold shock factor RbfA on the regulation of translation of the bacterium *Staphylococcus aureus* (2020-2021) in cooperation with the Institute of Genetics and Molecular and Cellular Biology (IGBMC) (France).

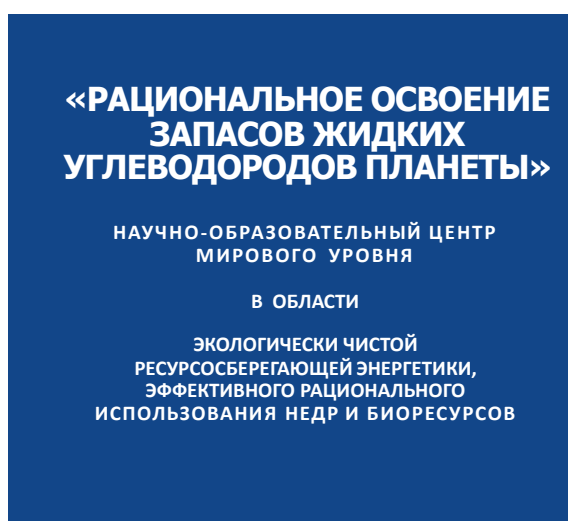


Dynamics of a number of joint international projects of KFU

Kazan Federal University as a part of consortium has won a contest for creation of a world-class scientific center in the priority area of “Environmentally friendly resource-saving energy, efficient regional use of subsoil and biological resources”. The main tasks of the **Rational Utilization of Planet’s Liquid Hydrocarbon Reserves’** world-class center are the creation of the innovative and effective methods of exploration, development of oil and gas in Russia, involving the use of breakthrough technologies, artificial intelligence, Big data processing, as well as oil and gas fields development. Besides Kazan Federal University the consortium consists of Ufa State Petroleum Technological University, National University of Oil and Gas "Gubkin University" (Gubkin University), Skolkovo Institute of Science and Technology.

Rational Utilization of Planet’s Liquid Hydrocarbon Reserves’, world-class scientific center

НАУЧНЫЙ ЦЕНТР МИРОВОГО УРОВНЯ «Рациональное освоение запасов жидких углеводородов планеты»



Skoltech

Сколковский институт науки и технологий



1

Two KFU projects became winners of the eighth contest for the grants (**megagrants**) of the Russian Government for state support of the research, carried under the supervision of the leading scholars at the Russian higher education institutions and scientific organizations:

- In the field of biology - Regular genetic epigenetic mechanisms of development and functioning of skeletal and cardiac muscles in humans and primates in health and disease, supervisor - **Yoshihide Hayashizaki**, invited scientist (RIKEN, Japan, h-index 100);
- In the field of medicine – Regulation of the mTOR1 complex during mitochondrial metabolism: influence on inflammation and carcinogenesis, supervisor - **Simon Hans-Uwe** (Switzerland, h-index 88).

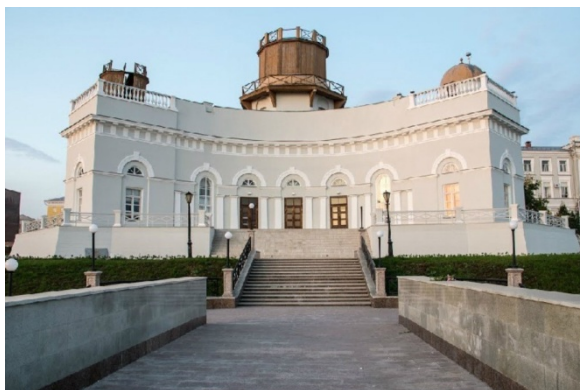
The period for the project’s implementation makes 3 years: from 2021 to 2023



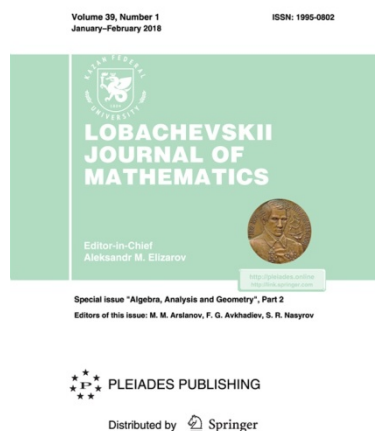
The article of the scholars from the Institute of psychology and education titled «Psychological factors of successful foreign language acquisition» was published at XLinguae (Q1), an international scientific journal

The scholars of the “Quantum methods of the data processing” research laboratory of the KFU Institute of computational mathematics and information technologies, Center for Quantum Computer Science of the University of Latvia and University of Paris designed an algorithm for quantum computers providing for solving Dyck problem (recognizing Dyck language). The problem is in determining if a sequence of parentheses in a text is a properly balanced one.

The results were published at Leibniz International Proceedings in Informatics.

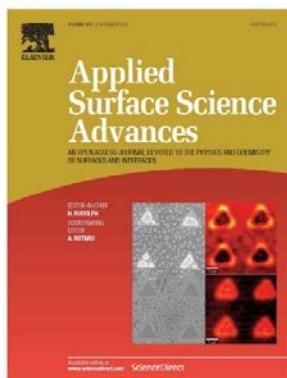


KFU astronomy observatories were included into UNESCO tentative list. The letter of confirmation from Mechtild Rössler, Director of the UNESCO World Heritage Centre was received in December 2020.



KFU Lobachevskii Journal of Mathematics was included into Q2 of Scopus database. The journal covers the scientific interests of Nikolai Lobachevsky, great Russian mathematician, and publishes scientific articles on various topics related to mathematics. Alexander Elizarov, professor of the KFU Institute of Information technology and intelligent systems is the editor-in-chief of the journal.

Albert Rizvanov, Professor of the Department of genetics of the KFU Institute of fundamental medicine and biology, has become the only international observer from Russia for the working committee of the COST Action "Catalysing transcriptomics research in cardiovascular disease" consortium (CardioRNA CA17129. Accelerating transcriptome research in cardiovascular disease)



Rawil Fakhrullin, chief researcher of the "Bionanotechnologies" laboratory of the KFU Institute of fundamental medicine and biology entered the Advisory Editorial Board of "Applied Surface Science Advances", international interdisciplinary scientific journal published by Elsevier publishing house.

Three KFU projects - "Odyssey", "Resonance" and "Constellation plus" navigation systems entered annual analytical collection of the best developments of CIS countries. The innovative projects that have primary significance for the infrastructure of CIS countries are united in it.



KFU Journal titled "Education and Self-development" was included into Q4 of Scopus database. **Roza Valeeva**, professor of the Institute of psychology and education, is the editor-in-chief of the journal.

1st international Markovnikov prize is awarded to professor A.I.Kononov for his outstanding contribution to the sphere of organic chemistry (December 16, 2020)



Kazan Federal University is a ground for large-scale **international events**, many of which were held in Russia for the first time. **124** international conferences, seminars and other events were hosted by KFU in 2020, the majority of which took place online due to Covid-19 pandemic. The following events can be mentioned among the largest and most representative, specifically by the number of international participants:

- *Kazan international linguistic summit “Challenges and trends of the world linguistics” (KILS-2020) (16.11-20.11.2020)* – 500 participants from 24 countries – KFU Institute of philology and intercultural communication, International linguist committee, International association of teachers of Russian language and literature;
- *International scientific forum “Russia-Africa: politics, economy, history and culture”, organized under the X International symposium “Islam in the multicultural world” (11.11.2020 - 11.12.2020) (hybrid format)* – KFU Institute of international relations;
- *VI International Forum on Teacher Education (online format) “Perspectives and priorities of the pedagogical education in the epoch of transformations, choices and challenges”, IFTE-2020 (27.05.2020-9.06.2020) (online)* – KFU Institute of Psychology and Education;
- *International online conference “Integration processes in Europe and Eurasia: challenges of the contemporary theory and practice” (12.11.2020) (online format)* – KFU Faculty of Law, RAS Institute of Europe, Association of European studies, Friedrich Ebert Foundation;
- *THE Digital Transformation Forum 2020 (21.10.2020) (online)* – Kazan Federal University, Times Higher Education – over 2000 participants from 135 countries;
- *IV International scientific and methodological seminar: “Improvement of language teaching methods: grounds for progressive practice exchange” (20.02.2020) (online format)* – KFU Institute of philology and intercultural communication, L.N. Gumilyov Eurasian National University (Kazakhstan) and Ege University (Turkey);
- *International scientific conference “Complex analysis and its application” (24-28.04.2020) (online format)* – KFU Institute of mathematics and mechanics, Scientific and educational mathematical center of the Volga Federal Region and others.

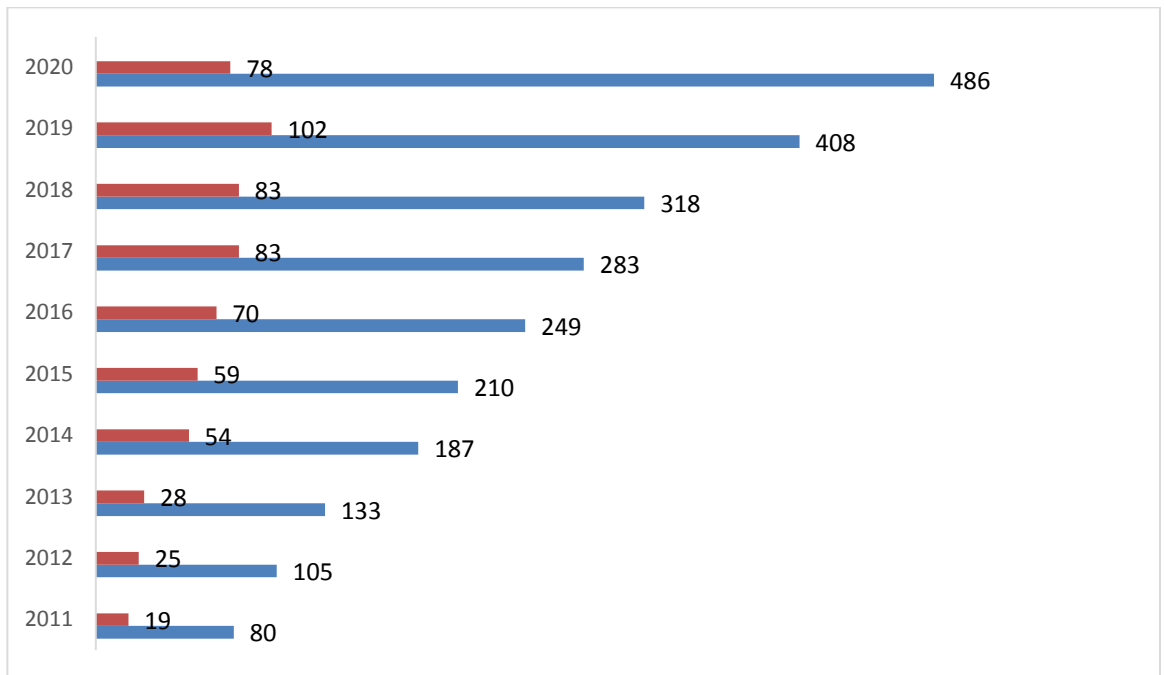
Representatives of CIS countries (Kazakhstan, Uzbekistan, Belarus, Azerbaijan, Kyrgyzstan), USA, Turkey and People’s Republic of China were the most active participants of the international scientific and academic events, organized at KFU.





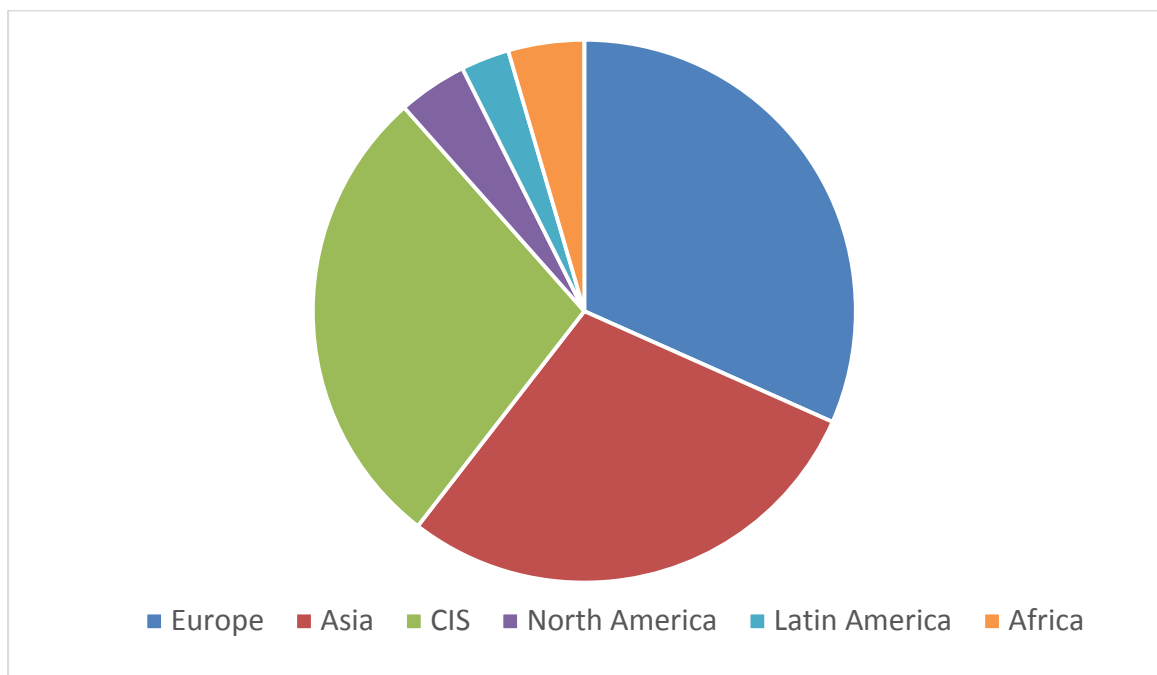
COOPERATION DEVELOPMENT

Development of strategic partnership and networking with world's leading research, educational and innovative organizations is one of the key objectives of KFU. Within the reporting period another 78 agreements were signed. As a result currently there are 486 cooperation agreements with 372 research and academic centres and companies from 70 countries.



Dynamics of cooperation with international partners, 2011-2020.

39 partner universities of KFU were ranked Top 300 in the Times Higher Education and QS World University Rankings, among them: Imperial College London and University of Nottingham (Great Britain), Trinity College (Ireland), KU Leuven and University of Antwerp (Belgium), Ludwig Maximilians University of Munich, Humboldt University of Berlin, Technical University of Dresden (Germany), the University of Helsinki and the University of Tampere (Finland), University of Bologna and the Sapienza University of Rome (Italy), The University of British Columbia (Canada), Beijing Normal University (People’s Republic of China), the University of Tsukuba and Keio University (Japan) and others.



KFU's international partners 2020, by regions

119 international representatives visited Kazan Federal University in 2020. Negotiations with the University administration were conducted, research and academic potential of the university was shown, and public lectures for staff members and students were carried out during these visits.



Online signing ceremony for the memorandum of understanding between Kazan Federal University and National Human Resources Development Institute of the Republic of Korea (NHI). (November 25, 2020)



Visit to KFU of Mr. Tarak Ben Salem, Ambassador Extraordinary and Plenipotentiary of the Republic of Tunisia in the Russian Federation (November 10, 2020)



The department of manuscripts and rare books of N.I. Lobachevsky scientific library of Kazan Federal University hosted the shooting of the documentary film dedicated to Abay Kunanbayev, an outstanding representative of Kazakh literature in the framework of the programmes prepared for his 175th anniversary, Altai channel (Kazakhstan) (November 2020)



Signing of the Cooperation agreement between KFU and Yantai University (People's Republic of China) (November 2, 2020)

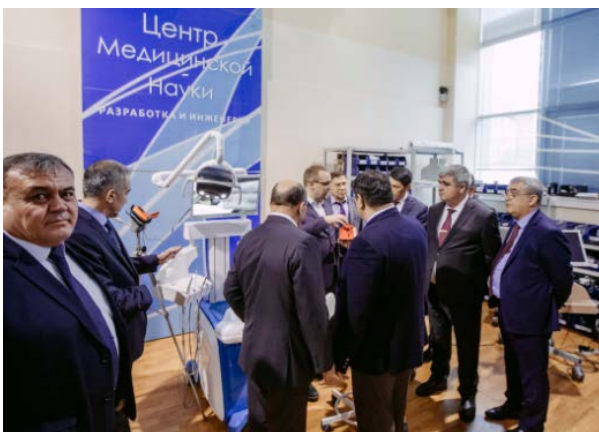


KFU and Holon Institute of technologies (Israel) signed the Memorandum of cooperation (September)



Visit to KFU of Aurelio Llaneza Villanueva, attaché on education of the Embassy of Spain in Russia (March 5,

17, 2020)

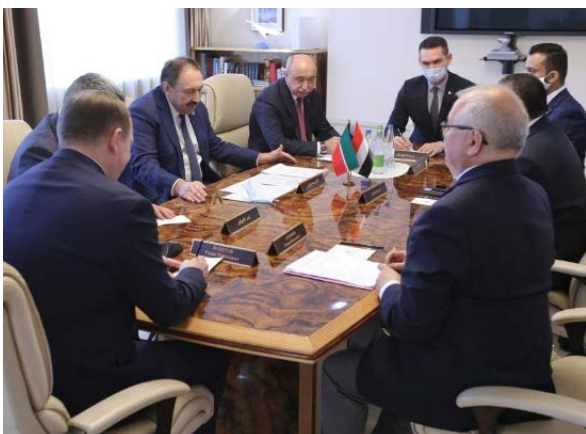


Visit to KFU of the delegation of the Bukhara region (Uzbekistan). Signing of the Memorandum of understanding between KFU and Bukhara state medical university (February 25, 2020)

2020)



Visit to KFU of Farouk Mahmoud Hamad, Rector of the Mohammed V University Abu Dhabi (January 25, 2020)



Meeting with Dr. Ahmed Salem Saleh Al-Wahishi, Ambassador Extraordinary and Plenipotentiary of Yemen in Russia at the Ministers Cabinet of Republic of Tatarstan (December 25, 2020)



Meeting between Ilshat Gafurov, KFU Rector, and Bairamov Ataturdy, Consul General of Turkmenistan (July 15, 2020)

KFU IN RANKINGS

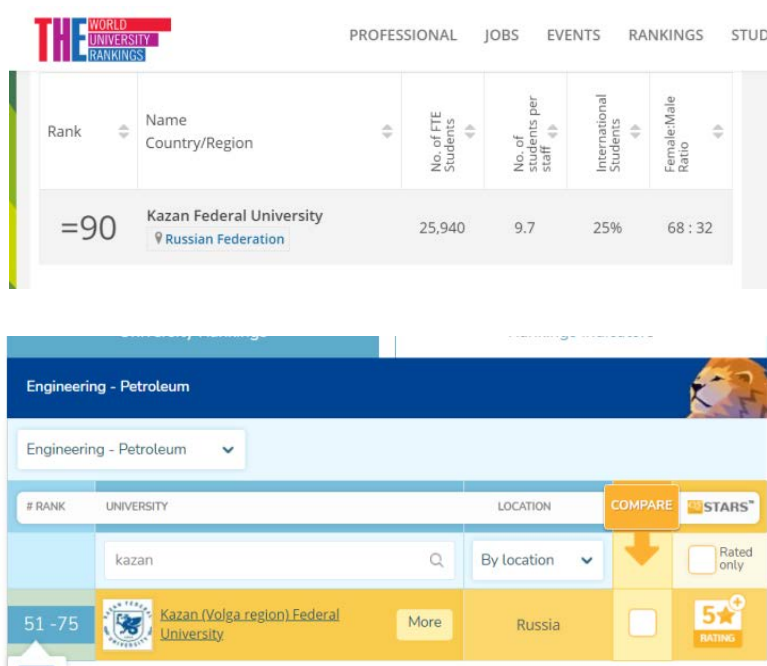
An important measure of KFU success is its position in international university rankings. According to the **QS World University Rankings 2020**, Kazan University occupies the following positions: QS World University Rankings – 370, QS (BRICS countries) – 60, QS (Emerging Europe and Central Asia) – 32. In terms of QS Subject rankings Kazan University entered the TOP 100 in Engineering – Petroleum technologies, having occupied 51-75 positions. Apart from that, KFU has obtained “5+ stars” at QS Stars. The final grade of the University made 916 from 1000 maximum. KFU has been evaluated in 8 fields with over 50 indicators among them including: Teaching, Employability, Development of the faculty, Internationalization, Infrastructure, Innovations, Social involvement, Taught program (major: “Linguistics”, “Russian as a foreign language” program). KFU has been evaluated with the major grade of 5 stars in each field. KFU

Higher School of Business entered TOP 70 of European Business Schools in QS Global MBA Rankings.

As far as Times Higher Education rankings are concerned, KFU occupies the following positions: Times Higher Education World University Rankings - 601-800, THE (Emerging Europe and BRICS countries) – 134. In terms of Subject rankings Kazan University entered the TOP 100 in Education, having occupied the 90th position.

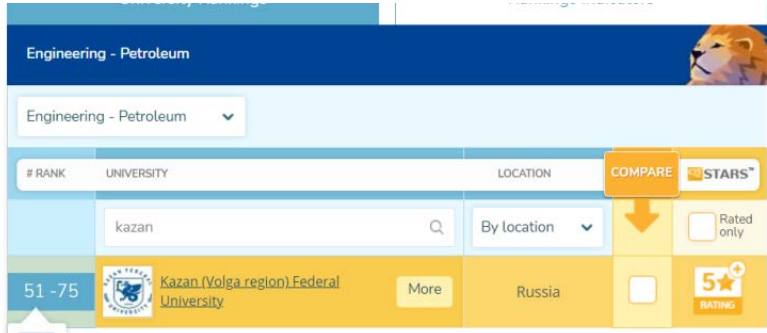
In a recently launched global ranking, THE Impact Rankings that captures the impact of higher education on delivering United Nations' Sustainable Development Goals, KFU occupies 201-300 positions.

In 2020 KFU was ranked 817 in the world prestigious ranking U.S. News Best Global Universities and entered TOP 150 at *Space Sciences* subject area (131th position).



The screenshot shows the THE World University Rankings website. The top navigation bar includes links for PROFESSIONAL, JOBS, EVENTS, RANKINGS, and STUD. Below the navigation bar is a table with the following columns: Rank, Name, Country/Region, No. of FTE Students, No. of students per staff, International Students, and Female:Male Ratio. The row for Kazan Federal University shows a rank of =90, 25,940 FTE students, 9.7 students per staff, 25% international students, and a 68:32 female:male ratio.

Rank	Name	Country/Region	No. of FTE Students	No. of students per staff	International Students	Female:Male Ratio
=90	Kazan Federal University	Russian Federation	25,940	9.7	25%	68 : 32



The second screenshot shows the 'Engineering - Petroleum' subject ranking page. It features a search bar with 'kazan' entered and a dropdown menu set to 'By location'. The search results show Kazan (Volga region) Federal University with a rank of 51-75 and a 5-star rating.

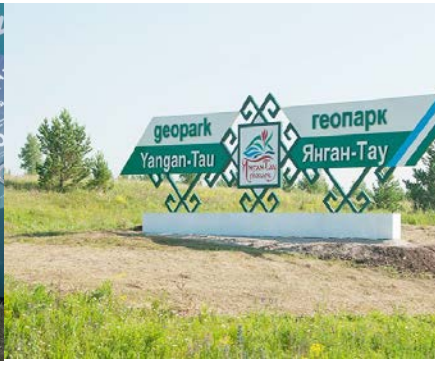
# RANK	UNIVERSITY	LOCATION	COMPARE	STARS
51 -75	Kazan (Volga region) Federal University	Russia		5★

THE Digital Transformation Forum was held online on October 21, 2020 in Kazan Federal University within the framework of cooperation with the Times Higher Education. The forum united representatives of Russian and foreign universities, international ranking agencies, major foreign companies and mass media from 135 countries all over the world.



INTERNATIONAL ACHIEVEMENTS OF KFU STAFF AND STUDENTS

- KFU students became winners of “Eurasia Global” 2020 International Youth Forum, held under the auspices of UNESCO in Orenburg (Russia). 500 participants from 50 countries were involved in the forum.
- The students of IT Lyceum and N.I. Lobachevsky Lyceum became winners of VIII Romanian Master of Informatics, held in Bucharest (Romania).
- Alexander Salikov, a first-year student of the Department of psychology and pedagogy of the Yelabuga Institute of Kazan Federal University, became a silver medalist of the World Sambo Championships held in Novi Sad (Serbia).
- Owing to the efforts of the scholars from the KFU Department of geology and mineral resources Yangantau geopark (Republic of Bashkortostan) entered the list of UNESCO World Heritage to become the first geopark in Russia to obtain such status.
- Mikhail Varfolomeev, head of the “EcoOil” strategic academic unit, head of the KFU Department of development and exploitation of hard-to-recover hydrocarbon deposits, entered the editorial board of the “Energy” journal (Q2 of WoS), becoming the first Russian representative at the editorial board.
- KFU Museum of History became finalist of the European Museum of the Year Award 2020. The award was founded in 1977 for encouraging innovative approaches to museum activities, that are significant for all European society, and is considered to be the most important award for the European museums.
- Anastasiia Indienkova and Rimma Nurieva, students of the Institute of information technology and intellectual systems of Kazan Federal University became ambassadors of Amazon Web Services Educate. Among the participants there are representatives from all over the world: 75 from India, 63 from the USA, 9 from Brazil and other countries. Russia is represented solely by two KFU students.
- The international Society of Petroleum Engineers granted their recognition to KFU SPE Student Chapter, the student society of the Institute of geology and oil and gas technologies, as one of the best ones in 2020 and presented the Excellent Award.
- The students of KFU lyceums became winners and prizewinners of the XII International Autumn Tournament in Informatics, having obtained two silver medals and one bronze medal. 403 school pupils (as part of 101 teams) from 12 countries participated at the online tournament.
- Evgeni Popov, KFU scholar, acted as an expert for definition of *Canadodus suntoki*, a new type of chimaera. The fossil chimaera was discovered in Oligocene sediments of Canada. The details of the research can be found at the Journal of Vertebrate Paleontology.
- *Sozvuchie (rus. Harmony)* student choir of the KFU Institute of philology and intercultural communication won the Grand Prix of the International online contest *Tvorim raspraviv krylia-2020 (rus. Create and spread your wings)*.
- Timur Boguslavsky, student of the KFU Faculty of Law, became the first Russian and the youngest rider to be at the top of the general standings of the prestigious international GT World competition.



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