XXI century

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Main Facts about ISU

• 1918 - The opening of the University.
• 1919 - The opening of the Eastern Department where Sanskrit, Mongolian, Chinese, Tibetan, and Japanese were taught. In addition, the Physics-Mathematics Faculty was founded as a part of the natural history and medical departments.
• 1920 - The Medical branch becomes its an independent Faculty.
• 1930 - A year of major reorganization at the university: within the medical, finance-economic, and pedagogical faculties independent institutes of medicine, finance-economics, and pedagogy were founded.
• 1941-1945 - During the Great Patriotic War more than 100 members of the university staff went to the front. Of them, 22 perished. The war brought many considerable changes to the teaching staff: at the university the associate member of the Soviet Academy of Sciences (from 1943) S.S. Smirnov, the professors V.S. Obruchev and V.V. Sobolev, the historians S.Ya. Luriye and I.I. Belyakevich, and the philologists M.S. Altman and K.A. Koperzhinsky all began working.
• 1947 - The physics and chemistry scientific research institute was opened as part of the university.
• 1949 - An independent Geology Faculty was formed. In the same year a branch of the East-Siberian Academy of Sciences was opened in Irkutsk with the majority of its members coming from the ranks of the university.
• 1950s - Researchers from the university along with the Irkutsk Geological Survey and the East-Siberian branch of the Academy of Sciences took part in the development of a nationally important project by studying the geologic construction and engineering and geologic conditions of the regions of construction of the hydroelectric dams in Irkutsk and Bratsk.
• 1954 - The Law Faculty was opened.
• 1959 - The creation of a computer center equipped with an electronic computing machine (ECM).
• 1950s - Many members of the university defended their Doctorate degrees, becoming Professors.
• The end of the 1960s - A new four-storeyed university building was constructed for four faculties and their departments. In addition, the city executive committee gave the university a building in the center of the city.
• 1966 The foundations for a new university building in Akademgorodok were lain. The building was opened in 1973.

A meeting in honor of Victory Day on the 9th of May, 1945.
The integrated Soviet-Mongolian Khubsugul expedition was launched in conjunction with the university and the Mongolian State University with the active participation of scientists from the Siberian Branch of the Academy of Sciences and other universities from Irkutsk. The participants in the expedition led a joint study of natural waters of the water basin of the Khubsugul lake and mineral waters of Mongolia. They published the “Atlas of Khubsugul Lake” and the map “Mineral Waters of Mongolia.”

1988 During perestroika the university was moved under the State Education Board of the USSR. Despite economic hardships, ISU became one of the best universities in the country which answered directly to the Ministry of higher and technical education in the USSR. In those years by many requests the students and teachers ceased to carry the name of Andrey Zhdanov, a Soviet state and party member.

1991 Due to the fall of the Soviet Union, ISU came under the control of the State Committee of Science and Higher Education of RSFSR (Russia).

1993 The Faculty of Psychology and Social Work was opened.

1998 Baikal Deep Underwater Neutrino Telescope was launched into use and to this day remains the only active telescope of its kind in the world.

2000 In the Tunkinskaya Valley the wide-angled cherenkovsky installation for applied physics was commissioned.

2001 Through the organizational and financial aid of the Ministry of Education of the Russian Federation, the Carnegie Corporation in New York (USA), and the John D. and Catherine T. MacArthur Fund (USA), the university opened the Interregional Institute of Social Sciences to carry-out the project “Siberia in Russia and the World: Calls for Strategies for Development.”

2011 ISU, along with 55 other universities in Russia, won the contest hosted by the Ministry of Education and Science of the Russian Federation for the support of programs for the strategic development. The program provides for in part the support of scientific research and the creation of a scientific-education complex in conjunction with the institutes of the Irkutsk scientific center of the Siberian Branch of the Academy of Sciences.

2013 The Ministry of Education and Science of the Russian Federation announced the inclusion of the Irkutsk State Pedagogical Institute under ISU.

The current university library - the former residence of the Governor. This picture was taken in the 1920s. On the facade remnants of bullets and shelling from the civil war proceeding the 1917 revolution are still visible.
1. Despite the geographical distance from the capital of Russia, Moscow, Irkutsk and Irkutsk Oblast, a picturesque region of the country, nevertheless have a rich history, Siberian climate, and great opportunities for visiting students and residents alike.

- The Irkutsk Oblast is located in the very heart of Siberia. Its capital is the city of Irkutsk. The distance from Moscow to Irkutsk is five thousand kilometres. The oblast ranks 6th out of the 20 political regions in Siberia in terms of area. The airport enjoys international status with connections to several nearby nations.

- The history of the Irkutsk Oblast takes its beginning in 1682 when the Domain (Voivode) of Irkutsk was formed which was then restructured into a province in 1719. In the whole of the oblast, there are 2,700,000 residents accounting for 30% of the entire population of Eastern Siberia. The main city of this territory is the city of Irkutsk, founded in 1661, and maintaining to this day more than 600,000 people.

- The Irkutsk Oblast is characterised as having a sharply continental climate with very long and cold winters with little atmospheric precipitation. Nevertheless, the summers are rather warm and humid. The average yearly temperature doesn’t exceed 0°C anywhere in the oblast.

- In the coldest month of winter, January, the temperature ranges from -20 to -50°C. In July, the warmest month, the average temperature is +18°C with a maximum temperature of +37°C. The longest season is winter, lasting on average 180-200 days. Particularly in winter you have the unique opportunity to contemplate and enjoy the winter beauty of the city, region, and Baikal. Regarding the number of sunny days, Irkutsk and the southern part of the oblast are comparable to Southern California, averaging 300 days of sunshine per year.

- Irkutsk today is a major industrial, academic, and cultural center. The city is fairly well situated on the banks of the Angara river, 65 km from lake Baikal.

- Irkutsk is home to one of the branches of the Scientific Academy, maintaining eight institutes of science. There are ten universities, sixty-eight libraries, eighty schools, a drama theatre, musical theatre, puppet theatre, children’s theatre, organ hall, entertainment venues, restaurants, and a multitude of cafes, all located in Irkutsk.
2. **Study at ISU is an opportunity to realize one’s dream and see the unique natural complex – Lake Baikal.**

- The deepest and cleanest lake in the world is Lake Baikal, a unique creation in nature located practically in the centre of Asia, located 66 km from Irkutsk. Baikal is 455 metres above sea level, is 636 km in length with a width at its widest point at 79.5 km while at its narrowest just 25 km, encompassing a surface area equal in size to Belgium. There are 26 islands on the lake, the largest of which is Olkhon with a length of 70 km and a maximum width of 20 km. The lake freezes over in January, with the ice beginning to break up in May. The maximum depth of the lake is 1637 metres.

- Lake Baikal was formed approximately 30 million years ago and is one of the oldest lakes on the planet. The lake does not show any signs of aging, but suggests that it will one day become an ocean as its banks are still growing apart at a rate of 2 cm per year. 20% of the world's supply of surface freshwater is concentrated in Lake Baikal and is standard for clean drinking water.

- The hollow of the lake could hold the entire Baltic Sea or the combined water of all five of the Great Lakes in North America. There are 336 rivers and streams that flow into the lake, but only one that flows from it, the Angara, which by legend is considered the daughter of Baikal.

- The water of Baikal is renowned for its extraordinary purity and clarity. In the spring, after the ice has melted from the lake, a silver coin thrown into the lake at a depth of 30-40 meters is still visible. The chemical components of the water make it very similar to that of distilled water. The lake remains so clean due to the feeding of its waters from glaciers and rivers that filter and clean the water before its entering the lake, and due to a unique crustaceous zooplankton, the Baikal epsichura, otherwise known as the sea flea. Baikal is a surprising, natural laboratory and extraordinary place on this planet. There are more than 1550 species of animals and approximately 1080 species of plants. More than 2/3 of these species are endemic to the lake. Because of its unique properties, the lake was added to the list of World Heritage Sites UNESCO in 1996.

3. **Study at ISU is an opportunity to conduct interdisciplinary research at Lake Baikal.**

- It is said that Lake Baikal is a time machine that allows one to study the present as well as the past. Physicists, geographers, and biologists all maintain their own continually operated experimential laboratories. In Bolshie Koty ISU has a hydrobiology laboratory.

- The best example of an effective function from the
past few years is the participation of the university in the International Summer School for Young Scientists «The Ecology of major bodies of water and their watersheds». In 2013 the Irkutsk State University took participants from school no.5 that was organised by the biology-soil and geography departments. This year nearly 70 students, scientists, and teachers from Germany, the U.S.A., France, Switzerland, and Russia have taken part in the project. The program at the school included lectures from famous Russian and foreign scientists, a round table discussion entitled «Lake Baikal: A UNESCO World Heritage Site», practical classes on collection of hydrobiologic and hydrologic samples and their laboratory processing, as well as ornithological and geobotanical excursions.

4. **Study at ISU provides one with the unique opportunity to make new friends from partner universities in Asia and Europe.**

5. **Study at ISU gives one the opportunity to visit a multitude of tourist and cultural-ethnographic sites.**
   - In Irkutsk and the oblast there are 77 natural sites declared monuments to architecture and 685 monuments to history, archaeology, and culture.
   - Counted among them is the unique monument to architecture, the Circum-Baikal Railway (KBZhD), a transportation wonder of the world. The largest number of diverse historical sites of stone and wooden architecture from the 19th century, theatres, museums, and churches are concentrated in Irkutsk.
   - Setting itself apart from other historic buildings is the 19th century treasure known as the «White House», which currently serves as the ISU library. The university was founded in 1918 and was the first university in the entire oblast. The library contains 2.5 million items among which are many rare editions, famous throughout the world. Currently a new library is being built to house the ISU collection.
Dear colleagues: students, post-graduates, lecturers and researchers!

The Irkutsk State University, one of the oldest universities in Siberia, possesses considerable educational and scientific potential. We have two separate branches of the university, five educational institutes, nine faculties, 109 departments, a Center for Advanced Training and Retraining, three research institutes, an Inter-regional Institute of Social Sciences, a department for post-graduate and doctoral courses, a Center for New Informational Technologies, the Baikal Research and Education Center, a virtual university, the Confucius Institute, scientific and educational libraries, a UNESCO Chair for Water Resources, an astronomical observatory, a botanic garden and several educational practice centers.

Two hundred post-graduate and doctoral students currently study with us in 49 different fields. Scientific guidance is carried out by 150 scientists, among whom there are 90 Doctors of Science. These include six full members and two corresponding members of the Russian Academy of Science, as well as 30 members of the Branch and Social Academies of Science. Six Thesis Councils in 14 scientific specialties work at ISU.

Our University offers many possibilities for the integration of scientific resources from foreign universities. We have 61 cooperative agreements with universities in Europe, Asia, America, and Australia. Our scientific schools are internationally known in the fields of fluorescence, ionosphere physics, high energy physics, physical chemistry and catalysis, inorganic chemistry and ore-dressing, macromolecular chemistry, differential and integral equations, optimal control theories, algebra and mathematical logic, the biology and ecology of Lake Baikal, microbiology, archeology, ethnography, and political science, as well as contemporary history, philology, geology and geography.

The educational and scientific divisions of Irkutsk State University have considerable experience in different interdisciplinary fields and are ready to work with students. They offer educational programs, usage of pedagogical innovations, and information technologies, all of which are in tune with new and progressive information from the international academic community, along with participation in international educational and scientific projects, and the wide academic mobility of students and teachers.

International cooperation in modern socio-cultural, economic and foreign policy conditions is one of our priorities as we continue to develop educational and scientific opportunities here at ISU.

Welcome to Irkutsk State University!
The contest held by the Ministry of Education and Science of the Russian Federation for the support of programs of strategic development of state universities was won by 55 institutions of higher education, with Irkutsk State University counted amongst them. The winning institutions from 2012 through 2014 will receive monetary subsidies of up to 100 million rubles in order to create and maintain support programs for strategic development. Only a total of 5 institutions of higher education from the Irkutsk Region participated in the contest and of those 5 universities, only Irkutsk State University received this grant.

The majority of resources for the program are budgeted for academic research, with the remainder being used for general education purposes.

In conjunction with the overall strategy of the university, with academic research taking precedence, the program strives to bring students closer to the academic sphere by using a myriad of events and other measures. As a result, the goal of the program is to develop interdisciplinary research on the basis of the systematic integration of university research and academic projects with the Academy of Sciences and a wide body of domestic and international partners and potential consumers of the results from this academic research. In particular, the program for strategic development has made provision for many academic studies of Lake Baikal in the fields of information technology, biology, chemistry, physics, hydrobiology, hydrochemistry, astrophysics, and astronomy. The academic research center “Baikal” was created in the framework of this conception to help realize these projects. All of the goals of the program are in agreement with the mission of ISU: to further knowledge and the education of students in scientific-technology and the humanities so that they may be able to serve their home and Fatherland in the 21st century while using sparingly and with preservation the unique natural resources of the Baikal region of Siberia, and so that they might generate and fill their lives with new ideas, that they might cultivate in themselves a sense of individual responsibility and complete identity with intellectual engagement.
The director of the university library, Raisa Vasilyevna PODGAJCHENKO, an honored worker of culture of the Russian Federation and an honored worker of higher education, member of the Council of the Central Library Information Commission under the Ministry of Education of the Russian Federation, chairwoman of the Methodological Association and Area Council of Library Directors at institutions of higher education in Eastern Siberia, chairwoman of the Association for Library Directors for the city of Irkutsk and the Irkutsk Region. Raisa PODGAJCHENKO finished an internship at the United States Library of Congress, and is familiar with the similar work of university libraries in Germany, Spain, China, Finland, South Korea, and Norway.

The university library is unique not merely because of its valuable collection of books, but also because of the special atmosphere and kind relations with its visitors.

The university library was founded when the university was commissioned, in fact slightly earlier: in the rare-book and manuscript collection some of the materials originated from the collection of the merchant V.N. Basnin with the following notation: “For the library of the Irkutsk university.” This was still before the October Revolution of 1917. In 1918 when the university was formally founded the majority of the collection came with professors from the university in Kazan. In 1920 the collection was enlarged due to the nationalization of seminars, women’s institutes, male gymnasiuems, and other formerly private educational institutions, which is how books from the Decembrists came to be found in the university library collection after having been at one time given to religious seminaries.

In the rare-book collection there are books from the collection of the Decembrists Lunin,

The library has for many years now implemented changes in the more widespread use of computer technology and the creation of electronic resources. This path has been lain with access to a modern local network connecting 130 computers to the internet and electronic databases with all levels and types of connection including the collaborative catalogue of libraries in Siberia. From automated technology cycles and the first automated working station to computer classes, electronic library, modern “reading zones” and automated library-information complexes in academic libraries with access to resources and informational internet resources being created in libraries, from the advancement of information about the library and its resources to Russian and English websites.
The “golden” collection consists of many rare books and manuscripts. The division of Russian literature contains many old publications dating from the era of Peter the Great and rare books from the 18th and 19th centuries, including items from the collection of the Decembrists and the patron of the library V. N. BASNIN and N. S. ROMANOV, among others. Unique monuments of the written and printed word dating from the Renaissance are housed in the department of old books and manuscripts in foreign languages. Counted among the bibliographic rarities in the collection are Siberian journals from 1775. The collection of pre-revolutionary Siberian newspapers is the largest in all of Siberia.

Trubetskoj, and others. This “golden” collection of the library is a modern-day treasure. Among the rare items are two items of great importance: a fragment of a manuscript in Latin from the 14th century and the “Greek Lexicon” published in Milan in 1499 at the dawn of book printing, this being the only copy in all of Russia. For this reason it is very difficult to overestimate the value of the collection.

In 1928 the library was granted the title of “public” and its collections became open to the population of Irkutsk at large. In 1934 the title of “academic” was given to the library from which point the library became known as the “Academic Library of ISU.” In 1969 the library received yet another title, “area,” thereby becoming the methodology center for libraries of educational institutions in Eastern Siberia. In 1992, by decree of the Ministry of Culture and the Ministry of General and Professional Education in the Russian Federation, the library joined the

In February of 2000 the President of the Russian Federation, Vladimir PUTIN, visited the university including the exhibition “The Past We Are Proud of and the Future in which We Want to Live,” featuring many books from our rare-book collection.
list of the largest and first-rate university libraries in the country.

Today traditional library processes have in many ways been replaced by computer technology: automatic requests and orders as well as work done on publications, access to the collection through an electronic database system, the electronic registration of visitors, and the automatization of book lending has become commonplace. Our main and most important task at the moment is to create an electronic catalogue of the entire collection. Due to grants, Internet access and digital technology have been made available in the library, thereby granting visitors and workers access to regional and world information networks. The library is a partner in several projects that create a national digital database allowing students to access many books digitally from outside the library walls. While preserving and expanding the library’s collections, the library offers a wide array of electronic resources that we create ourselves. We have come a long way since the first digitalization in the beginning of the 2000s, having now created the following electronic resources: “The Work of ISU Researchers”, “Irkutsk Diocesan Bulletin”, the newspaper “The Power of Work”, “Prerevolutionary Periodical Publications”, “The Museum of Eastern Literature”, and the publication of the East-Siberian Branch of the Russian Geologic Association. In the new building we will be able to introduce new services that are already in practice in other libraries throughout the world. We would like to create a library with conditions such that visitors coming to the library would spend the entire day here not wanting to leave. That is our current mission! We would like to create a library where visitors can not only find information, but also take a rest, have a bite to eat, attend a lecture, or watch a film or concert. In the new library there will be an auditorium with seating for up to 250 people in addition to Internet access and individual study rooms for university researchers to study in quiet. Foreign language courses, various training classes, and business games will also be offered at the library. Currently in the works are plans for an indoor garden for which our colleagues are already preparing for the move.

The library’s book collection is one of the largest in Siberia and the Far East with approximately 3 million items in Russian and other foreign languages. The library receives around 50,000 visitors yearly, comprised of teachers, researchers, and students of ISU and other institutions of higher education, in addition to specialists from the city and region. For their use there are 11 lending library branches with academic, research, non-fiction, and fiction material, 14 reading halls with academic and reference materials, information center, the department of book-studies and cultural-historical education, in addition to other divisions and services.
Concerning the development of international cooperation, ISU is oriented first and foremost on supporting our interests in the international market of education services and widening our cooperation with foreign institutes of higher education.

Currently ISU is in collaboration with 61 foreign partners in close cooperation with other institutions of higher education, research facilities not only in Irkutsk, but also in many other Russian cities including Moscow, St. Petersburg, Vladivostok, Khabarovsk, Ulan-Ude, Novosibirsk, and etc.

We have maintained a partnership with the University of Kiel in the field of Russian language education, German language acquisition, economics, law, physics, and biology for 23 years.

Students and professors from the law institute, history, philology and journalism, geology faculties can participate in exchanges with the Adam Mickiewicz University in Poznań.

In the past few years we have enjoyed a resurgence in our partnership with Chinese universities: the Liaoning University (Shenyang), the Institute for the Humanities of the North-East Normal University (Changchun). We have also recently made new agreements with the Zhengzhou University, the Capital Normal University, and others.

In addition, the Irkutsk State University takes active part in realizing many projects in education with 11 universities in the Republic of Korea. At the same time we are in collaboration on an educational project with the Korean Foundation(Seoul) of the Ministry of International Affairs of Korea. In conjunction with this project the Center for the Study of the Korean Language was founded at the International Institute of Economics and Linguistics, an ISU institute.

ISU also maintains close ties with Japanese universities. In 2010 ISU and the University of Hokkaido (Sapporo) took part in joint archeological excavations.

ISU for many years now has been in partnership with Mongolian universities: the Mongolian National University, the Mongolian University of Science and Technology, and the Humanities University.

*International delegations participated in the celebration of 95th anniversary of ISU*
This is not the first year that a double-degree program has been in place between ISU and international partners. For the past 20 years students studying at the International Institute of Economics and Linguistics (IIEL) in addition to their Russian degree have been able to receive a bachelor degree in the field of commerce from the Liaoning University. For more than 20 years the Siberian-American Faculty of Management of the Baikal International Business School, a project of ISU and the University College of Maryland University (USA), has been up and running. The program, one of the first of its kind in Russia, is accredited by the Commission of Higher Education in the United States of America and attested by the Ministry of General and Professional Education in the Russian Federation. The participants in this program, both Russian and American students, receive two degrees.

In 2009 the Russian-American master’s program operating on the double-degree model was instituted with the University of Maryland.

In 2012 ISU and the Christian-Albrechts-Universität zu Kiel in Germany signed an agreement for the establishment of a dual degree program in the field of Ecology and Environmental Management. Master degree students from ISU spend 3 semesters in Irkutsk and one semester in Germany at CAU.

Since 2008 the Irkutsk State University has been participating in the international education program “Erasmus Mundus: Action 2” for the development of mutual understanding and mutually beneficial cooperation in the field of higher education between Russia and the countries of the European Union.

In 2013 agreements with the University of Milan (Italy), the University of Western Bohemia (Czech Republic), King’s College of Belfast, and the Pomeranian University in Słupsk.

In 2014, 3 agreements on academic exchange aimed at obtaining master and bachelor degrees of the University of Savoie were signed:

1) Bachelor degree in Sustainable Aquaculture and Quality Management (Licence Professionnelle « Aquaculture durable et gestion de la qualité») between ISU Faculty of Biology and Soil Studies and The Interdisciplinary Scientific Centre for Mountain Studies (Centre Interdisciplinaire Scientifique de la Montagne ) of the University of Savoie and Master degree in Ecology of Mountain – ECOMONT.

2) Program in Applied Foreign Language between the Faculty of Literature, Language and human Sciences of the University of Savoie and ISU International Institute of Economics and Linguistics.

3) Programs in Tourism and Foreign Languages/ Tourism, Hotel Business and Entertainment between the Institute of Business Administration of the University of Savoie and ISU Faculty of Service and Advertising.

Denis VARASCHIN, the president of the University of Savoie and Tatiana LISHTOVANNAYA, the head of ISU Department for International Relations, at the signing ceremony.
UNESCO Chair on Water Resources was founded on March 30, 2001, in accordance with the program UNITWIN (University Twinnings) and Irkutsk State University (East Siberia) on the basis of the Faculty of Biology and Soil Science, the Faculty of Geography, the Faculty of Chemistry, the Faculty of Geology, the Biological Research Institute and Regional Inter-University Laboratory for Ecological Research.

Its functioning satisfies the objectives of the strategic development of ISU in the 21st century:
- To develop international relations by creating international departments and new international educational institutions in accordance with international standards;
- To create new specialties meeting the needs of the region and the country as a whole, while preserving the traditions of classical university education;
- To promote the creation of an integrated system in education and research in alliance with the Siberian branch of the Russian Academy of Sciences and other Russian and foreign universities.

Professor Arcady. N. Matveev was appointed as chair in 2013. The staff of the Chair includes not only members of Irkutsk State University - experts in analytical chemistry, hydrochemistry, geochemistry, biochemistry, ichthyology, biology, mathematical modeling, and geology - but also scientists from the Buryat State University, the Institute of Geochemistry of the Siberian Branch of the Russian Academy of Sciences (SB RAS), the Institute of the Earth Crust of SB RAS, and the Baikal Museum of SB RAS. The Chair is co-managed by the University of Savoie (Chambery, France).

Guided by the ever-increasing importance of clean water as a strategic resource for mankind, the main objectives of the network of departments are:
1. To analyze and forecast the chemical, physical, biological and ecological condition of water bodies and channels in light of global changes; to assess the impact of climate change on water resources.
2. To study anthropogenic eutrophication of water bodies and channels located in regions with different climatic and other conditions; to analyze the introduction and accumulation of inorganic nutrients and organic matter in water bodies and channels.
3. To determine the degree of anthropogenic impact on both surface and ground water in the regions being studied; to assess the degree of physical, chemical and biological pollution of natural waters.
4. To create new analytical, forecasting and simulation models to analyze and forecast the quality of surface and ground water.
5. To develop new courses, methods, and textbooks for students, and to exchange these materials and distribute them among other schools.

Following International meeting on the outcome and perspectives of the activity of
UNESCO Chair on Water Resources at ISU, the Irkutsk State University, the Buryat State University, the University of Savoie, the National University of Mongolia, interested institutes from the Siberian Branch of the Russian Academy of Sciences and the Department of International Organizations of the Russian Ministry of Foreign Affairs (Commission of the Russian Federation for UNESCO) must develop a cooperative integrated research and educational program on water resources in the period of 2014-2019.

The following cooperative directions are suggested:

In the area of scientific research:

1. Study the current condition of water bodies and channels, from indicators of their chemical, physical, biological and ecological condition in relation to anthropogenic impacts and possible global changes (taking Lake Baikal and mountain lakes of the Baikal rift zone as an example from the one hand and mountain lakes of the French Alps from the other hand). Assess the impact of global climate changes and the resulting catastrophes on biodiversity and biotic structure of water ecosystems of different types.

2. Study the eutrophication and pollution of water bodies and channels. Analyze the introduction and accumulation of biogenic material and pollutants in water bodies and channels. Research the conditions of the formation and accumulation of biogenic and biologically active materials in water bodies in the Baikal region and the French Alps. Study anthropogenic impact on surface and ground water. Research pollution resulting from the shipping industry, tourism, waste-water, mining, and air transport, and their impacts on biodiversity and the biotic structure of large lakes and rivers (for example, the Selenga and the Rhone). Develop and implement methods of remediation.

3. Improve the system of ecological monitoring of water bodies and channels. Create databases on the biodiversity, surface water and ground water of the basins studied.

4. Create models for ecological processes in water bodies and channels.

5. Conduct ecological, ecogenetic and ecomorphological research on aquatic organisms and fish in their centers of active morphogenesis (the Baikal region and the Alps). Evaluate fish reserves.

6. Establish the interrelationship of surface and ground-level hydro-systems, and study physical and chemical equilibria in order to identify the role of solubility and sediment in the formation of the chemical state of natural and mineral waters. Conduct ecological-geochemical, hydro-chemical, radiological, and microbiological research of mineral and thermal waters.

From left to right: Ksenia GAVERDOVSKAYA – Secretary of the Commission of the Russian Federation for UNESCO
Dugar ERDENE BUREN – the Consulate General of Mongolia in Irkutsk
Thierry VILLEMIN – First Vice-President of the Universite de Savoie
Arkady MATVEEV – Head of the UNESCO Chair on Water Resources at ISU
In the area of education:
1. Extend activities performed by Chair participants on the level of secondary education (gymnasia, lyceums, high schools) and take part in the «UNESCO Associated School»- ASPnet Project;
2. Develop and test an international, interdisciplinary university master’s program in the field of research, protection and management of water resources by universities-participants;
3. Develop courses focused on an interdisciplinary approach, such as “Ecohydrology and Water Security”, “The Management and Protection of Water Resources”;
4. Implement a double-degree program (master’s program) at Irkutsk State and Savoie universities in the field of “Research, Protection and Management of Water Resources”;
5. Organize a field training and research site on water resources on lake Baikal at Bolshiye Koty and conduct methodological scientific workshops, internships, expeditions, and stationary scientific research;

The textbook in Baikal Studies written by the scholars of the Irkutsk State University and the Irkutsk Scientific Center of the Siberian Branch of the Russian Academy of Sciences was named the best in 2013 contest among Russian educational and scientific editions.
The International summer school «Ecology of Large Water Bodies and Their Watershed» (22-31.08.2013 г., lake Baikal, Bolshie Koty (ISU)

THE SUMMER SCHOOL: ON THE SHORES OF THE LARGEST NATURAL LAKE IN WESTERN EUROPE

At 372 metres altitude, Lake Geneva, the largest of Western Europe’s lakes, is a lake of glacial origin (the former Rhône glacier). Linking together France and Switzerland, it enjoys a temperate climate which favours a southern vegetation. With a maximum depth of about 315 metres, the restoration of the Lake since the 1980s has prevented its eutrophication and general deterioration. It is now the southernmost place in Europe where Arctic Char can be found.

THE FRUIT OF A DYNAMIC PARTNERSHIP

The 2014 Limnology summer school results from the partnership of Universities and Research Institutes reputed for their work in lake ecology. It takes place under the patronage of UNESCO, of the UniTwin network and the UNESCO Chair in Water Resources which is shared by the Irkutsk State University and the University of Savoie, in association with the Forel Institute of the University of Geneva. The organization of the school is supported by an International Scientific Committee.

PARTNERS

• Alpine Research Center for Trophic Systems and Watershed Ecosystems – CARRTEL
• Laboratory for Environment Dynamics and Territories of the Mountains – EDYTEM
• Institut F.-A. Forel
• Institute of Biology at Irkutsk State University
• SOERE Lac Alpin

Contacts: www.isu.ru
E-mail: unesco@isu.ru
The 21st century UNESCO Associated Schools Project Network:
Study to know; Study to know how;
Study to live and study to live together

The Commission of the Russian Federation for UNESCO located in Moscow together with the International Water Resources for UNESCO faculty of Irkutsk State University successfully deal with the development of the specific and general knowledge of its rising generation in the framework of UNESCO’s Associated Schools Project Network (ASPnet) whose member states span the globe under UNESCO’s umbrella. This project is aimed at spreading information on the United Nations and UNESCO through promoting the development of foreign language skills, fostering ecological awareness and a sense of responsibility towards environmental protection, studying the world’s cultural and natural heritage, encouraging the advancement of democracy, peace and nonviolence.

The development of cooperation networks within the ASPnet (Associated Schools Project Network) and the UNITWIN/UNESCO (University Twinning and Networking Programme) matches UNESCO’s principle of lifelong learning.

The main goals of the ASPnet are as follows:
- the studying, implementing and spreading of positive experiences in the education system
- the laying down of conditions favorable to the development, in educational institutions adhering to
  UNESCO’s Associated Schools Project Network, of teachers’ creativity and skills
- the enhancing of international communication and strengthening of global peace
- the creation of additional opportunities to develop international ties of UNESCO member schools

Contacts: tel.: (3952) 24-22-49
E-mail: lichtovannaya@admin.isu.ru, unesco@isu.ru

A conference on ecology held in gymnasium №3.

UNESCO
Associated Schools
Today the Chair on Water Resources is in charge of four general educational institutions of Irkutsk which joined the ASPnet in 2014, namely the lyceum of Irkutsk State University, gymnasium N°2, gymnasium N°3 and school N°64.

Under the aegis of this department, conferences on ecology and law, international English Olympiads and UNESCO lectures have successfully been held.

*UNESCO lectures at the lyceum of Irkutsk State University*

From left to right: Ms. JALOVITSKAYA (head of the Irkutsk Center for Information and Methodology Support), KIRILLOV Pavel (student enrolled at school N°64 and winner of the PTE English Contest), Ms. LISHTOV ANNAY A (head of the International Relations Department of Irkutsk State University and scientific secretary of the UNESCO Department of Irkutsk State University).

The winners of the International English Contest selected among the UNESCO Associated Schools of Irkutsk (lyceum of Irkutsk State University, gymnasium N°2, gymnasium N°3 and school N°64).
Baikal International Business School University of Irkutsk (BIBS ISU) was approved by the USSR State Committee on Education (edict #700 of November 20, 1990).

Since 2008, BIBS ISU and 19 Russian business schools have been ranked by the UN expert group as one of the top 1000 business schools of the world. The EDUNIVERSAL, International Scientific Committee, granted the school «Two Laurels», a status that indicates the academic institution's worldwide reputation and its strong network of partners and deans of business schools at an international level.

BIBS ISU is a member of The Central and East European Management Development Association (CEEMAN), Russian Association of Business Association and is accredited by the Chamber of Commerce.

The Institution focuses on the development and implementation of innovative international business and management-related projects. A special feature is that some educational programs are implemented in collaboration with Russian and international partners, and the students receive the degrees from the university partners. BIBS ISU sees its mission in helping the local business community be on the cutting edge in terms of the latest trends in international business and management.

Schools:

The Siberian-American School of Management offers both undergraduate and graduate-level education. The SASM programs provide the BS/ MS degrees at the University of Irkutsk (Russia), the University of Southern Queensland (Australia), the University of Maryland University College (USA). Location: Irkutsk (Russia). The highlight of the joint program is making the best of Russian, American, and Australian systems of education.

The School of Business and Management. It is a post-university education for adult students who have completed bachelor’s degree programs and are engaged in business: extra-mural and distance education (a second degree), MBA program, presidential program of personnel training, corporate programs.
Academic Programs

**BS PROGRAMS**
- **Russian Bachelor’s Degree**
  - Bachelor of Science in Management
  - Irkutsk State University
- **International Bachelor’s Degree**
- **Russian-American program**
  - Bachelor of Science in Management Studies
  - University of Maryland University College (USA)
- **Russian-Australian program**
  - Bachelor of Business Administration
  - University of Southern Queensland (Australia)

**MS PROGRAMS**
- **Russian Master’s Degree**
  - Master of Science in Management
  - Irkutsk State University
- **International Master’s Degree**
- **Russian-American program**
  - Master of Science in Management with a minor in Marketing
  - University of Maryland University College (USA)

**MBA**
- **Master of Business Administration (Strategic Management)**
  - Irkutsk State University

**Continuing education programs**
- **In-Service (“Presidential”) Program (category A)**
  - Bachelor of Science (Project Management)
  - Irkutsk State University

**Corporate educational programs**
- **Seminars, trainings, modular programs, on-line training**
  - Certificate of BSIB UOI, certificate of advanced training UOI

**Language training programs**
- **Translators (Management)**
  - Certification TOEFL/TOEIC tests
- **Individual and corporate programs**
International Institute of Economics and Linguistics of the Irkutsk State University has been working since 1993, but its history goes back forty years earlier when the preparatory faculty for foreign nationals was opened at ISU on October 13, 1966. Throughout the years of its existence, more than 10,000 international students have graduated from the preparatory department. In 1993, the preparatory faculty was renamed international. In addition to preparing international students to enter Russian universities, the international faculty implemented Bachelor degree programs in “Commerce” and “Linguistics”. That year the first intake of Russian students was held and successfully continues so far. In 1999, new specialties were opened: “Commodity Research and Expertise of Goods” and “Marketing”. In 2005, the Master degree program in “Commerce” and “Linguistics” was opened. In 2007, the international faculty was reorganized into the Institute of Economics and Linguistics. That year the cultural and educational center “Confucius Institute” was opened along with the Center for the Study of the Korean Language. Currently, about 2,000 students are enrolled in the International Institute of Economics and Linguistics in various training programs and forms of education. There are students from Russia, China, Korea, Mongolia, the United States, Germany, France, Austria and other countries. The Institute maintains a pre-university program for foreign nationals to get higher education in programs of bachelor and master degrees.

The Institute offers study of six foreign languages (English, Chinese, Korean, German, French, and Japanese) and internships at foreign universities. The Institute conducts training in double degree programs in economics, linguistics, trading with China, Japan, France (bachelor and master degrees).

**COURSES OF STUDY**

Preparatory courses for foreign students training (tuition only) in the following areas:

1. Pre-university education (humanities or economics)
   
   Period of training: 10 months (September - June), 36 hours per week.

   The education program in Russian language is over two semesters and includes the fol-
ollowing aspects:
• Practical Russian language (grammar and speech practice);
• Phonetics (exercise and correction of pronunciation);
• Speech etiquette, including business Russian language;
• general scientific style of speech (the language of your future profession).

2. Courses of Russian language and Culture
Period of training: 5 - 10 months (September - June), 20 hours per week.

3. Summer Courses of Russian language
4. Centre for Testing Foreign Nationals in Russian Language

**BACHELOR DEGREE PROGRAM**

*Full-time study*

**Period of study – 4 years**

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linguistics</td>
<td>Theory and Methods of Teaching Foreign Languages and Cultures</td>
</tr>
<tr>
<td>Economics</td>
<td>Commerce; Trade Policy World Economy</td>
</tr>
<tr>
<td>Trading</td>
<td>Commerce; Commodity Research and Expertise of Foodstuffs E-Commerce</td>
</tr>
<tr>
<td>Commodity Research</td>
<td>Commodity Management; Commodity Research and Expertise in Production and Circulation of Agricultural Raw Materials and Foodstuffs</td>
</tr>
</tbody>
</table>

**MASTER DEGREE PROGRAM**

*Full-time study*

**Period of study – 2 years**

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<tr>
<th>Specialty</th>
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<tbody>
<tr>
<td>Linguistics</td>
<td>Russian as Foreign Language</td>
</tr>
<tr>
<td>Economics</td>
<td>Economy of Entrepreneurship</td>
</tr>
<tr>
<td>Trading</td>
<td>Commercial Activity in Commodity and Service Market</td>
</tr>
</tbody>
</table>

**RESEARCH**

• Urgent issues of Russian studies
• Cross-cultural communication (dialogue of cultures)
• Issues on methods of teaching foreign languages (Chinese, Mongolian, Japanese, Korean, German, French, English)
• Social economical issues of development of Siberia and Japan.
The training of mathematicians at the Irkutsk State University started in 1919 at the Faculty of Physics and Mathematics. In 1965 the Mathematics Department was transformed into the Faculty of Mathematics. In 1971, the speciality of Applied Mathematics and special faculty of Applied Mathematics and Automated Control Systems for certified specialists were made available. In 1999, the faculty was reorganized into the Institute of Mathematics and Economics. Since 2001, the Institute has been training students in Software Engineering and Computer Administration.

In April of 2005, the Institute of Mathematics and Economics (IME ISU) was renamed the Institute of Mathematics, Economics and Informatics (IMEI ISU).

The IMEI has a skilled team of professional lecturers and scientists:

- 25 doctors of science, professors;
- 68 candidates of science, associate professors;
- Academicians and corresponding members of the Russian Academy of Sciences and branch academies;
- Honored and Honorary Worker of Higher Education of the Russian Federation
- Leading mathematicians and programmers from the Irkutsk Scientific Center
COURSES OF STUDY
BACHELOR DEGREE PROGRAM
Full-time study
Period of Study – 4 years

<table>
<thead>
<tr>
<th>Speciality</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td>Innovation Mathematics and Computer Science</td>
</tr>
<tr>
<td>Applied Mathematics and Informatics</td>
<td>Mathematical and Computer Modeling</td>
</tr>
<tr>
<td>Software and Information System Administration</td>
<td>-</td>
</tr>
<tr>
<td>Economics</td>
<td>Economics and Mathematical and Information Management</td>
</tr>
<tr>
<td>Information Security</td>
<td>Software for Economic Security</td>
</tr>
</tbody>
</table>

MASTER DEGREE PROGRAM
Full-time study
Period of study – 2 years

<table>
<thead>
<tr>
<th>Speciality</th>
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</tr>
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<tbody>
<tr>
<td>Mathematics</td>
<td>Mathematical Cybernetics; Differential Equations, Dynamic Systems and Optimal Control; Data and Knowledge Processing in Information Networks and Internet; Mathematical Methods of Economic Security</td>
</tr>
<tr>
<td>Applied Mathematics and Informatics</td>
<td>System Analysis, Operation Study and Management; Computer Modeling and Data Analysis; Methods of Presenting and Processing of Information; Parallel and Distributed Computing Systems</td>
</tr>
<tr>
<td>Economics</td>
<td>Economics of Innovations and Innovation Entrepreneurship; Economics, Innovations and Consulting</td>
</tr>
</tbody>
</table>

RESEARCH

- Integral and Differential Equations: Theory and Application in Industrial Mathematics;
- Control Tasks: Optimal Conditions, Computational Methods and Software;
- Intelligent Content Management in Distributed Networks
- Effective Technology of Complex Information Systems Realization;
- Combinatory and Probability Methods in Discrete Mathematics and their Applications
- Methods and Methodology of Teaching Mathematics;
- Theory and Practice of Industrial Organization and Spatial Economics;
- Economics of Diversity, Social Interactions and Network Effects;
- Economics of Energy.
The ISU Faculty of Physics is one of the oldest faculties at the University. It was founded in May 1919. Over the course of nearly a century the faculty has graduated more than 6,500 specialists in the fields of physics, radiophysics, and electronics. There are more than 100 doctors of science and 400 PhDs among its graduates. Presently, the Faculty of Physics is comprised of six departments, graduate, postgraduate and doctoral programs, polygons, and observatories. Classes are conducted by highly qualified specialists, they are 18 professors and doctors of science and 34 PhDs.

Departments:
- General Physics;
- General and Space Physics;
- Theoretical Physics;
- Radiophysics and Electronics;
- Experimental Physics;
- Solid-State Electronics.

**COURSES OF STUDY**

**BACHELOR DEGREE PROGRAM**

*Full-time study*

*Period of study – 4 years*

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<tr>
<th>Specialty</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Physics</td>
<td>Fundamental Physics; Solar-Terrestrial Physics; Physics of Condensed Matter; Medicinal Physics</td>
</tr>
<tr>
<td>Radiophysics</td>
<td>Information Systems and Technology; Electronic devices, signals processing and automation Methods of radio physics in astrophysics and geophysics.</td>
</tr>
<tr>
<td>Electronics and Nanoelectronics</td>
<td>Materials and Components of Solid-State ElectronicsResearchers of Materials</td>
</tr>
</tbody>
</table>

**MASTER DEGREE PROGRAM**

*Full-time study*

*Period of study – 2 years*

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<th>Specialty</th>
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<tr>
<td>Physics</td>
<td>Theoretical and Mathematical Physics Plasma Physics Solar-Terrestrial Physics</td>
</tr>
<tr>
<td>Radiophysics</td>
<td>Information Processes and Systems Methods of radio physics in astrophysics and geophysics.</td>
</tr>
<tr>
<td>Electronics and Nanoelectronics</td>
<td>Materials and Components of Solid-State Electronics</td>
</tr>
</tbody>
</table>
RESEARCHES

- Fundamental and applied studies in the area of the condensed matter, luminescence, laser physics, optics.

- Study of dielectric and structural properties of heterogeneous environments of organic and inorganic origin by methods of thermal stimulation and dielectric spectroscopy

- Production of new materials for solid state electronics, medicine, and ecology

- Studies in the area of radiation physics and production thermal-luminescent detector, the development of technology for producing silicon for solar power generation

- Fundamental studies in astronomy, astrophysics, and space research, including neutrino and gamma-ray astromonies, high energy cosmic ray physics, solar, interplanetary, geospace, ionosphere and atmosphere physics, study of solar-terrestrial relations, and development of methods and equipment suitable for astrophysical and geophysical research

- Elementary particle physics and high energy physics.

- Studies in the plasma physics and plasma technology, ion implantation, plasma space thrusters

- Researches in the area of magnetic materials, magnetic memory, magnetic sensors

- Studies of the radio waves propagation through the inhomogeneous ionosphere, characteristics GPS navigation

The most important principle of education at the faculty is “education through science“.
In accordance with the principle, the students, which are interested in some scientific area are actively involved in the researches that are conducted on unique installations in Institute of Solar-Terrestrial Physics SB RAS, are working on cutting-edge devices in Institute of Geochemistry, Institute of Limnology and other institutes of the Russian Academy of Sciences. At the faculty, the basic departments of the Joint Institute for Nuclear Research (Dubna), Solar-Terrestrial Physics and the Institute of Geochemistry SB RAS are founded.

Special opportunities for development in practice the most modern technologies and method of measurements, work with computer networks, participation in theoretical and experimental studies are provided to students in the Applied Physics Institute of ISU. Students and graduates of the faculty make invaluable contributions to the establishment of the Baikal deep-underwater neutrino telescope NT1000 a cubic kilometer scale volume and construction of the world’s greatest gamma-ray observatory TAIGA (Tunka Advanced Instrument for Cosmic Ray Physics and Gamma-Astronomy), which is conducted in collaboration with leading Russian and German scientific organizations and universities in the “Center for Astrophysics Tunka Communities “ ISU. Gamma-Ray Observatory TAIGA will represent a unique system of detectors, which will be the first in the world to begin exploration of the universe in a new range of ultra-high energies gamma rays. In the department of spectral analysis techniques API, the students participate in the development of techniques and instruments that detect and identify malfunctions of any internal combustion engine on the presence and composition of tiny impurities in the oils of these engines.
Biology and Soil Studies Faculty is one of the oldest faculties of ISU, rich and glorious in traditions, its academic schools are internationally recognized. The key to its success and high ranking is a highly professional team of lecturers, including 17 doctors of science, professors, 57 associate professors and strong ties with the institutions of the Irkutsk Scientific Center of the Russian Academy of Sciences and the Russian Academy of Medical Sciences, foreign scientific and educational institutions and large enterprises in the region. The present and the future of the faculty are professionally oriented students, captivated by their future profession.

The faculty has 8 departments:

- Botany;
- Invertebrate Zoology and Hydrobiology;
- Vertebrate Zoology and Ecology;
- Microbiology;
- Plant Physiology, Cell Biology and Genetics;
- Physiology and Psychophysiology;
- Physico-Chemical Biology;
- Soil Studies and Land Evaluation.

The faculty maintains contact with the relevant committees of the local authorities, with Russian universities, academic institutions of RAS, RAMS, RAAS, nature reserves of Siberia and the Far East, with public environmental organizations of the Irkutsk region and Russian regions, with a variety of enterprises. Students have their summer field trainings on the shores of Baikal!

The pride of the faculty is its four museums:

- V.Ch. Dorogostaisky Museum of Vertebrate Zoology;
- I.V. Nikolaev East Siberian Museum of Soil Studies;
- East Siberian Museum of Microbiology;
- MM Kozhov Baikal Museum. Founded in 1919, the Baikal Museum includes over 3,000 exhibits of animals, plants, and invertebrates living on or in Baikal. The museum plays an important role as a training base for biologists: its rich collections provide the basis for scientific research, and many visitors can get acquainted with the unique Baikal fauna. Numerous scientific studies have been conducted using the vast collection of materials from the faculty’s museum collections.

COURSES OF STUDY

BACHELOR DEGREE PROGRAM

**Full-time study**

**Period of study – 4 years**

<table>
<thead>
<tr>
<th>Speciality</th>
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</thead>
<tbody>
<tr>
<td>Biology</td>
<td>Biochemistry; Bioengineering and Bioinformatics; Botany; Physiology; Microbiology; Invertebrate Zoology; Vertebrate Zoology</td>
</tr>
<tr>
<td>Soil Studies</td>
<td>Land Management</td>
</tr>
<tr>
<td>Environmental Management</td>
<td>Environmental Assessment</td>
</tr>
</tbody>
</table>

MASTER DEGREE PROGRAM

**Full-time study**

**Period of study – 2 years**

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<th>Speciality</th>
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<tbody>
<tr>
<td>Biology</td>
<td>Botany; Biology of Cell; Psychophysiology; Microbiology and Virology; Ichthyology and Hydrobiology</td>
</tr>
<tr>
<td>Soil Studies</td>
<td>Land Registry and Certification of Soils</td>
</tr>
<tr>
<td>Environmental Management</td>
<td>Environmental Assessment</td>
</tr>
</tbody>
</table>
RESEARCH

- Study of the peculiarities of the composition, genesis and allocation patterns of vegetation cover in the South of East Siberia
- Long-term dynamics of Baikal phytoplankton
- Study of the mechanisms of resistance among aquatic organisms to stressful environmental factors, for example, the highly specialized endemic species of Baikal
  - Fauna, ecology and evolution of Baikal amphipods
  - Processes of transformation and elimination of xenobiotics, biotesting of natural and waste waters
  - The structure of the fish population in the reservoirs of the Baikal Rift Zone (BRZ)
  - Nutrition and food relationships of the fish of Lake Baikal and other water bodies in the south of East Siberia
- Assessment of anthropogenic impact on productivity of fishing ponds in the Irkutsk region
- Assessment of the current state of biodiversity in protected areas of the Irkutsk region.
- Grayling (Thymallus Cuvier, 1829) of the Holarctic (systematics, phylogeography, peculiarities of ecology)
  - Soils of the Baikal region- chronicle of the natural and climatic conditions. Present ecological conditions and environmental management
- Study of the evolutionary, ecological and physiological aspects of functioning of biological subjects in East Siberia and the search for possible ways to use them in biotechnology
  - A comparative study of the evolutionary histories of Baikal animals through comparing nucleotide sequences of mitochondrial genes
  - Biochemistry and Microbiology of the decomposition of plant materials
  - Biotechnological processing of raw vegetable materials, including the acquisition of useful products for agriculture, medicine, food industry and protection of environmental surroundings
  - The study of polysaccharides of plant origin to estimate their pre-biotic activity
  - Biotechnological potential of microbial communities in the low temperature habitats
  - Cytological and molecular bases of animals’ chemoreception resulting from their ecology and life-cycle phases
  - Impact of aero emissions from industrial facilities producing aluminium on soil microcenosis, and safety of agricultural products
  - Study of structural and functional disorders of mitochondria in the pathogenesis of atherosclerosis
  - Study of bacterial metals leaching from the waste piles of a surface coal mine

The faculty offers interdisciplinary summer practice on the basis of the station in the village of Bolshe Koty, Lake Baikal, internships, schools and seminars in botany, zoology, hydrobiology, ichthyology, “Baikal studies”.
Activites

A special attention is paid to the cultural education of future lawyers. There has been established the club of aesthetic values within the frameworks of which the students meet noted musicians, composers, writers, and artists. Those who wish can develop their theatrical skills at the students' theatre "Cylinder" which has been established in close cooperation with the Irkutsk Dramatic Theatre.

The youth academic students' choir of the Law Institute of Irkutsk State University "Gaudeamus" is the pride of the Institute. The members of the choir have repeatedly become prizewinners of the international and state festivals; they have participated in the city and regional actions and arrange their own concerts in concert halls of Irkutsk. For more comfortable and effective work of creative teams of students and academicians the Leisure center is specially established at Law Institute.

The Institute has its own Art gallery. There are up to 10 exhibitions of known Irkutsk artists and photographers at the gallery annually; and also works of students and academicians of Law Institute are exhibited. There are about 60 cultural events within an academic year at the Institute: concerts, literary salons, charitable and social actions, intellectual games, solemn processions, competitions and presentations.

Sport is an integral part of the education process. The Institute has its own Sports complex. The students have the opportunity to work out in large sport halls with up-to-date facilities under the supervision of the highly qualified instructors.

The Law Institute includes two faculties:
- Law faculty;
- International Law faculty.

To make the teaching and learning process more interesting and efficient many classes are held in specialized lecture halls designed for interactive learning: the Courtroom of Roman Law, Museum of Criminology, the forensic testing ground, the Legal Clinic and free Wi-Fi zone.

In addition there are several places where the students can relax from studying: a two-storied cozy cafe, large sport complex and several tennis courts.

The Law Institute has own subject library. The Institute's library is one of the largest law libraries in Eastern Siberia: the stacks of special literature number over 350 000 volumes making this the largest collection east of the Urals. The Library is fully computerized making its full-text electronic catalogue accessible from any place of the world.

The Faculty of International Law
The Faculty of International Law of the Law Institute of ISU trains specialists qualified in "Jurisprudence" with the focus on "International Law".

Graduates of the International Law faculty can work both in domestic organizations engaged in economic activities as well as in foreign companies; they can be hired by government bodies involved in economic relations and activities with foreign countries, by customs, offices from abroad, consulates and by subsidiaries of international enterprises.

To provide a high-standard of education, two more departments have been included in the structure of the Institute: the Department of International and Comparative Law and the Department of Foreign languages. From the first year of study, students are taught various aspects of International Law such as the International Arbitration Process, International aspects of labor relations, Foreign economic law, Foreign Criminal law, Diplomatic and Consular law. Another priority of the faculty is the study of foreign languages. Such languages as English, German, French and Chinese can be chosen for study by the students of the Faculty of International Law. The Chinese language is taught by visiting professors from universities of China. Students of this faculty also have opportunity to qualify as interpreters in the sphere of professional communication and get an interpreter's diploma.

International collaboration
The Department of International Affairs is responsible for the coordination and support the mentoring of the numerous cooperation agreements and contracts of the Law Institute:
- International projects of the Law Institute;
- Academic exchange of students and professors.
- Short term programs, summer courses and language courses
- Degree programs and double diploma programs
- International Summer Law Schools, international conferences and other projects.
COURSES OF STUDY

BACHELOR DEGREE PROGRAM

Full-time study
Period of study – 4 years

<table>
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<tr>
<th>Speciality</th>
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<tbody>
<tr>
<td>Jurisprudence</td>
<td>Civil Law; Criminal Law; State Law; International Law</td>
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MASTER DEGREE PROGRAM

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<td>Jurisprudence</td>
<td>Contract Law; State and Municipal Governmental Bodies in Russia: Law Regulation and Realization Practice; General Theory for State Regulation of Public Relations; Theory and Practice of Criminal Law Application; The Judicial Bar; Law in the Field of Regional International Relations (double diploma)</td>
</tr>
</tbody>
</table>

RESEARCH

- Topical problems of legislative and law-enforcement activities in the Russian Federation. State regulation of ethno-confessional relations
- Problems of regionalization and local self-governance
- Practical aspects of lawmaking and law-enforcement activities in Private law
- Labour law and Social law: up-to-date issues
- Juvenile crime: peculiarities of juvenile criminal liability.
- Reintegration of juvenile offenders
- History of Criminal law of Ancient Russia
- Law and political regimes
- Topical problems of Comparative private law
- Judicial protection of the rights of citizens and organizations.

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The Institute has its own Art gallery. There are up to 10 exhibitions of known Irkutsk artists and photographers at the gallery annually; and also works of students and academicians of Law Institute are exhibited. There are about 60 cultural events within an academic year at the Institute: concerts, literary salons, charitable and social actions, intellectual games, solemn processions, competitions and presentations.

Sport is an integral part of the education process. The Institute has its own Sports complex. The students have the opportunity to work out in large sport halls with up-to-date facilities under the supervision of the highly qualified instructors.
The Faculty of Geology was one of the founding faculties of the Irkutsk State University. In 1920 there was the first group of graduates. In 1951, the faculty opened two new areas of concentration “Geological Survey, Seeking and Exploration of Minerals” and “Geology and Exploration of Oil and Gas Fields”.

Since 1994, the faculty has been educating students in the fields of “Geology” and “Geology and Exploration”. New specialties were opened in “Geology”, “Geology and Geochemistry of Fossil Fuels”, and “Geochemistry”. In 2000, the faculty started awarding the degree of Master of Geology. Since this date the faculty has graduated 4685 students.

Currently, they work in geological organizations, universities and at the Research Institutes in Eastern Siberia, Western Siberia, Yakutia, Buryatiya and the Russian Far East.

**Departments:**

- Teaching and Research Geological Museum;
- Geochemistry;
- Minerals;
- Mineralogy and Petrology;
- Dynamic Geology;
- Geology, Oil and Gas;
- Geology and Geophysics.
COURSES OF STUDY

BACHELOR DEGREE PROGRAM

Full-time study
Period of study - 4 years

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Geology</td>
<td>Geology and Geochemistry of Fossil Fuels; Geology</td>
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SPECIALIST DIPLOMA PROGRAM

Full-time study
Period of study – 5 years

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<tr>
<td>Applied Geology</td>
<td>Geology of Oil and Gas; Geological Mapping, Seeking and Exploration of Solid Minerals</td>
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MASTER DEGREE PROGRAM

Full-time study
Period of study – 2 years

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<tr>
<th>Specialty</th>
<th>Specialization</th>
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</thead>
<tbody>
<tr>
<td>Geology</td>
<td>Regional Geology; Geology and Geochemistry of Fossil Fuels</td>
</tr>
</tbody>
</table>

RESEARCH

- Change of microcomponent composition of Lake Telman sediment
- Neoproterozoic dike swarms in the south of the Siberian craton
- Scientific expedition to Patomsky volcano
- The problem of formation and migration of hydrocarbons in sedimentary basins of the Baikal Rift System
- Basalt-ultrabasit magmatism in the geological evolution of the Earth
- Vitims and Dariganga Cenozoic volcanic fields: a comparative study of geology and abyssal petrogenesis
- Analytical review of materials on Cenozoic magmatism and modern geodynamic activity of the mantle and crust of Central Asia
- Radioactive elements in the environment of the Baikal region
As an independent division, the Faculty of Geography has been in existence since 1949, but geography as a subject has been taught since the founding of the Irkutsk State University in 1918. First in Siberia, the Department of Economic Geography and Statistics was opened in 1920 with the first graduating class in 1936.

In the 1990s, in order to resolve scientific and practical problems of natural resource exploration successfully, new engineering staff - hydrologists and meteorologists - were required. At that time, the departments of Meteorology and Hydrology were created.

In 1995, the Faculty was licensed to open the specialties of “Environmental Management” and “Geo-ecology”.

Throughout the entire history of the faculty, over 7 thousand students have received their education in geography, hydrology, meteorology and environmental management. Now they work in the bodies of the Russian Federal Service for Hydrometeorology and Environmental monitoring, academic and project institutes, schools, universities, tourist agencies, cartographic factories and the AGP. The graduates work in many regions in Russia, countries of the Commonwealth of Independent States, and overseas.

17 professors and doctors of science, 30 associate professors and Ph.D. holders work at the faculty.

The faculty maintains close and long-term relations with the Research Institutes of the Siberian Branch of the Russian Academy of Sciences (V.B. Sochava Institute of Geography, Limnological Institute, Institute of Solar-Terrestrial Physics, Institute of the Earth’s Crust among others).

There is a laboratory of information-technical support, educational weather bureau, and an interuniversity laboratory for environmental studies.

Students have internships in two practice centers in Bolshie Koty (Baikal) and Arshan (Tunka valley).

**Departments:**
- Economical and Social Geography;
- Physical Geography and Geo-ecology;
- Meteorology and Atmosphere Protection;
- Hydrology and Water Resource Protection
- Water Resource Protection;
- Cartography and Geo-informatics.
COURSES OF STUDY

BACHELOR DEGREE PROGRAM

*Full-time study*

*Period of study - 4 years*

<table>
<thead>
<tr>
<th>Speciality</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Geography</td>
<td>General Geography</td>
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<tr>
<td>Hydrometeorology</td>
<td>Hydrology; Meteorology</td>
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<tr>
<td>Environmental Management</td>
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</table>

MASTER’S DEGREE PROGRAM

*Full-time study*

*Period of study – 2 years*

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<thead>
<tr>
<th>Speciality</th>
<th>Specialization</th>
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</thead>
<tbody>
<tr>
<td>Geography</td>
<td>General Geography</td>
</tr>
<tr>
<td>Hydrometeorology</td>
<td>Hydrology; Meteorology</td>
</tr>
<tr>
<td>Environmental Management</td>
<td>Environmental Management</td>
</tr>
</tbody>
</table>

RESEARCH

- Modeling of mesoscale processes in atmosphere and hydrosphere for solving diagnostic and prognostic tasks of Geocology and Environmental Management;
- Geographical assessment of river basins and aquatic landscapes of the Baikal natural territory based on experimental researching, remote sensing, GIS technology, methods of landscape planning and modeling of hydrological processes;
- Modeling of diffusion and transfer of anthropogenic contamination in the Baikal region;
- Mathematical modeling of dimensional diffusion of contaminants in atmosphere and hydrosphere of Mongolia;
- Transformation of landscapes within the Baikal drainage basin applying data of satellite remote sensing.
The Faculty of History was one of the founding departments of the Irkutsk State University in 1918. The faculty of History and Philology was the first to start training students in October of 1918. At the time the famous professors of various research centers in Russia worked there. Later the faculty was transformed into the Faculty of History which became the leading center of humanities as well as social and political science in Eastern Siberia.

**The faculty has five departments:**
- Russian History;
- Contemporary Russian History;
- World History and International Relations;
- Archaeology, Ethnology and History of the Ancient World;
- Political Science and History.

Currently, 13 professors and doctors of science, 21 associate professors and 43 senior teachers work at the faculty.

Students have the opportunity to combine their studies with their research work at the departments and research centers and laboratories of the faculty. There is the Center for Asian Pacific Studies, the F. Braudel Center for European Studies, Paleoecology laboratory. The faculty publishes three series in the ISU scientific journal - ISU Herald - History, Political Science, Geo-archeology, Ethnology and Anthropology.
COURSES OF STUDY
BACHELOR DEGREE PROGRAM
Full-time study
Period of study – 4 years

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Political Science</td>
<td>Public Policy and Government, Political Conflict</td>
</tr>
<tr>
<td>History</td>
<td>Archeology; Russian History; History of International Relations;</td>
</tr>
<tr>
<td>International Relations</td>
<td>International Relations and Foreign Policy</td>
</tr>
<tr>
<td>Foreign Region Studies</td>
<td>Asian Studies</td>
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<tr>
<td>Management in Youth Services Sector</td>
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<tr>
<td>Museums and Protection of Cultural and Natural Heritage</td>
<td>Exhibition Activity</td>
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MASTER DEGREE PROGRAM
Full-time study
Period of study – 2 years

<table>
<thead>
<tr>
<th>Specialty</th>
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</thead>
<tbody>
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<td>History</td>
<td>Archeology</td>
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<tr>
<td>History</td>
<td>Russian History</td>
</tr>
<tr>
<td>History</td>
<td>History of International Relations</td>
</tr>
<tr>
<td>International Relations</td>
<td>International Relations in the XX Century</td>
</tr>
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</table>
A new faculty of Psychology at Irkutsk State University was opened in 1993 on the basis of the existing College of Physiology and Psychology. The faculty of Psychology and Social Work united such departments as the department of Physiology, the department of Psychology, and the department of Sociology and Pedagogy where 28 professors, associate professors and lecturers worked. In 1994 the departments of Applied and Experimental Psychology and of Pedagogical and Developmental Psychology appeared. At the same time the faculty trained specialists in social work and logopaedics. In 1998 the first group of specialists-psychologists graduated from University. Today, the Faculty of Psychology trains specialists, bachelor and master degree holders. Highly-qualified specialists from Moscow and St. Petersburg universities deliver lectures, conduct joint research, conferences together with professional psychologists from all over Siberia. One of the proofs of the faculty efficiency is the first in Siberia Master program, first centers for advanced training of psychologists from the Federal Security Service, Russian Railway and the others.

Departments:
- Social Psychology
- Pedagogical and Developmental Psychology
- Medical Psychology
- General Psychology

Address: 2 Chkalov St., Irkutsk
Contacts: tel. +7 (3952) 217-091, 243-245, 200-454
Website: www.psy.isu.ru
E-mail: dean@psy.isu.ru
COURSES OF STUDY
BACHELOR DEGREE PROGRAM

Full-time study
Period of study – 4 years

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>Psychology</td>
<td></td>
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</tbody>
</table>

RESEARCH

- Social psychological conditions for professional self-conscience development;
- Development of professional self-conscience and motivation;
- Professional thinking of future psychologists;
- Psychological-pedagogical determinants of personal economic socialization;
- Psychological-pedagogical aspects of professional development while obtaining higher education;
- Problems of development and formation of personal identity in ontogenesis;
- Psychological-pedagogical problems of developing student’s individual style within educational institution;
- Professional self-identification of students-psychologists, its structure and optimization;
- Psychology of motherhood;
- Development of morality in pre-school period;
- Personal emotionality as an important professional quality of psychologist;
- Social psychological determination of science development;
- Study of internal and external conditions of professional activity;
- Social-psychological techniques for interpersonal conflicts settlement;
- Diagnostics and correction of suicidal behavior and posttraumatic stress disorders;
- Physiological-psychological basis for health and its role in correctional therapy.
The history of the Institute of Social Sciences began in 1995, when the specialty “Social Work” was opened at the Faculty of Psychology. In March of 1998, the Faculty of Social Sciences was separated from the Faculty of Psychology and began full-time and part-time accelerated training of students specializing in Sociology. Then the third specialty of Region Studies was opened, and in 2001 the faculty started the intake of students to the specialty Management of Organization. On the 26 of November, 2004, the faculty of social studies was reorganized into the Institute of Social Sciences. In 2012 a new specialty was opened: State and Municipal Management.

In March of 2013, the Institute of Social Sciences celebrated its 15th anniversary.

Currently, two faculties operate at the Institute of Social Sciences:
Social Faculty (full-time education)
Department of Complementary Education (part-time accelerated education)
and 2 laboratories:
1. Sociology Laboratory for Regional Issues and Innovations.
2. Laboratory for Sociological Research at the Department of Social Work.

The team of the Institute of Social Sciences consists of highly skilled lecturers, 2/3 of which have academic degrees and titles.
COURSES OF STUDY

BACHELOR DEGREE PROGRAM

*Full-time study*

*Period of study – 4 years*

<table>
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<th>Specialty</th>
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<tbody>
<tr>
<td>Sociology</td>
<td>Expert and Analytic Activity in Management Structures</td>
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<tr>
<td>Social Work</td>
<td>Social Work in Social Service Systems</td>
</tr>
<tr>
<td>Management</td>
<td>Management of Organization</td>
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<td>State and Municipal</td>
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<td>Management</td>
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MASTER DEGREE PROGRAM

*Full-time study*

*Period of Study – 2 years*

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Specialization</th>
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</thead>
<tbody>
<tr>
<td>Sociology</td>
<td>Contemporary Social Activity: Analytics, Expertise, Engineering</td>
</tr>
<tr>
<td>State and Municipal Management</td>
<td></td>
</tr>
</tbody>
</table>
Address: 1 Karl Marx St, Irkutsk  
Contacts: tel. +7 (3952) 33-43-72  
E-mail: dean@philosophy.isu.ru

The first in Eastern Siberia, the Faculty of Religious Studies and Theology of Irkutsk State University is a unique academic unit of the University. The faculty was created as a response to present demand to strengthen the spiritual and moral foundations of modern Russian society. The Faculty of Religious Studies and Theology is five years old. The teaching staff of the faculty includes 6 professors, 8 associate professors, 7 lecturers. The faculty has two departments - the Department of Philosophy and Methodology of Science and the Department of Religious Studies and Theology. With the active assistance of the Irkutsk diocese, the ISU East-Siberian Orthodox Research and Education Center was founded in conjunction with Harlampievsky Temple and received the status of a university-general department.

Over 14,500 primary sources concentrated in the ISU research library are the intellectual and theoretical basis for the specialties of “Religion” and “Theology”. In its educational and scientific activities the Faculty cooperates with the Ministry of Education of the Irkutsk region, CIMPS (Irkutsk Center for Information, Methodological and Psychological Support), St. Tikhon Orthodox University for the Humanities, religious organizations of the Baikal region, with Russian universities, with the core department of the Irkutsk region etc.

COURSES OF STUDY  
BACHELOR DEGREE PROGRAM  
Part-time study  
Period of study – 4 years

<table>
<thead>
<tr>
<th>Speciality</th>
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<tbody>
<tr>
<td>Religious Studies</td>
<td>Historical-Religious (Methods of Teaching)</td>
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<tr>
<td>Theology</td>
<td>Practical Theology</td>
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MASTER DEGREE PROGRAM  
Part-time study  
Period of studies – 2 years

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<thead>
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<th>Speciality</th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religious Studies</td>
<td>Theoretical-Religious (Methodological Basis for Religious Studies)</td>
</tr>
</tbody>
</table>
The Faculty of History and Philology was one of the first in the University. The training of philologists at the Irkutsk State University started in 1918 at the philology department of the Faculty of History and Philology. In 1926 the Buryat Philological Department joined the faculty. In 1961, the Department of Journalism appeared. In 1999, the Faculty of Philology was renamed the Faculty of Philology and Journalism.

The Faculty of Philology and Journalism as one of the oldest at the Irkutsk State University seeks to preserve the best classic traditions and help graduates find their place in the contemporary world.

**Departments**
- Russian Language and General Linguistics.
- Buryat Philology.
- Russian and Foreign Literature
- Contemporary Russian Literature
- Journalism and Media Management
- Public Relations and Advertising Technologies

**COURSES OF STUDY**

**BACHELOR DEGREE PROGRAM**

*Part-time study*

*Period of study: 4 years*

<table>
<thead>
<tr>
<th>Speciality</th>
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</thead>
<tbody>
<tr>
<td>Journalism</td>
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<tr>
<td>Advertising and PR</td>
<td>Integrated Communications</td>
</tr>
<tr>
<td>Philology</td>
<td>Russian Philology (Buryat Language and Literature, Russian Language and Literature);</td>
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<tr>
<td>Philology</td>
<td>Russian Philology (Russian Language and Literature)</td>
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**MASTER DEGREE PROGRAM**

*Part-time study*

*Period of studies: 2 years*

<table>
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<th>Speciality</th>
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<tbody>
<tr>
<td>Journalism</td>
<td>Media Management</td>
</tr>
<tr>
<td>Philology</td>
<td>Russian Literature; Buryat Language; Linguistic Forensics</td>
</tr>
</tbody>
</table>
The Faculty of Service and Advertising was opened on the 22nd of March 1997 at the Irkutsk State University.

In 2008, the faculty received a certificate of compliance with international standards on quality management IQNet 9001-2000 (Switzerland) and a certificate of compliance with international standards on quality management CroCert by ISO 9001:2000 (Croatia).

In 2012, an international educating program in intercultural communication studies was launched. The program gives students the opportunity to study simultaneously at two universities to obtain two diplomas: Irkutsk State University (Faculty of Service and Advertising) and Adam Mickiewicz University (Poland).

Today, 4 student enterprises work at the faculty: “ReAstat”, an advertising agency, the tourist center “Magnit”, the employment centre “Start”, and a Marketing Research Laboratory, “MarIs “. These enterprises cultivate culture, business technology, and professional competences of its students. They were formed in the Irkutsk State University within the grant provided by the European Union within the framework of Tempus – TACIS (Russia, France, and Italy). Since 2010, the Research and Training Center “Sarma” has been operating at the faculty with a base on Baikal. In summer, the centre makes it possible to obtain additional knowledge through seminars and workshops, schools, high schools, and competitions in collaboration with leading Russian and foreign scientists and experts.

Currently, the Faculty of Service and Advertising is a modern, high-tech faculty. Its graduates are in demand in various fields of life in the city, region and country.

**Departments:**

- Service and Service Technology;
- Tourism ;
- Advertising;
- Entrepreneurship and Management in Service and Advertising;
- Natural Sciences;
- Foreign Languages;
- Applied Informatics and Records Management;
- Psychology and Cultural Studies;
- Mass Communications and Media (based on the Publishing House «Komsomolskaya Pravda –Baikal»);
- Center for Information Technology.
COURSES OF STUDY

BACHELOR DEGREE PROGRAM

Full-time Study

Period of Study – 4 years

<table>
<thead>
<tr>
<th>Speciality</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Advertising and PR</td>
<td>Advertising and PR in Commerce</td>
</tr>
<tr>
<td>Cultural Studies</td>
<td>Culture of Mass Communication. Management in Socio-Cultural Sphere</td>
</tr>
<tr>
<td>Archives and Records Management</td>
<td>Information Technology in Records Management</td>
</tr>
<tr>
<td>Economics</td>
<td>Economics of Enterprise</td>
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<tr>
<td>Personnel Management</td>
<td>Personnel Management</td>
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<tr>
<td>Business Informatics</td>
<td>E-Business</td>
</tr>
<tr>
<td>Service</td>
<td>Service in Fashion and Beauty Industry</td>
</tr>
<tr>
<td>Tourism</td>
<td>Technology of Organizing Tour Agencies</td>
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<tr>
<td>Trading</td>
<td>Trade Advertising</td>
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<tr>
<td>Hotel Business</td>
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<tr>
<td>Quality Management</td>
<td>Quality Management in Socio-Economic Sphere</td>
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<tr>
<td>Applied Informatics</td>
<td>Applied Informatics in State and Municipal Government</td>
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MASTER DEGREE PROGRAM

Full-time study

Period of Study – 2 years

<table>
<thead>
<tr>
<th>Speciality</th>
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<tbody>
<tr>
<td>Psychology</td>
<td>Psychology of Mass Communication</td>
</tr>
<tr>
<td>Applied Informatics</td>
<td>Reengineering of Business Processes</td>
</tr>
</tbody>
</table>

RESEARCH

- “Mass Communication: Criteria and Methods of Efficiency Assessment”;
- Regional Problems of Tourism and Hospitality Service;
  - Modern Records Management in Enterprises;
  - Regional Peculiarities of Entrepreneurship in Service and Advertising;
  - Information Technology in Service and Advertising;
- Social and Economic Aspects of Development in Economy and Management of Small and Medium; Entrepreneurship of the Baikal Region;
- Mass Communication in a Multicultural Environment.
The Faculty of Chemistry, one of the oldest faculties at ISU (80 years), is rich and glorious in its traditions; its academic schools are internationally recognized.

The faculty staff are highly qualified lecturers including 15 doctors of science and 21 associate professors. The faculty has close relations with the institutions of the Irkutsk Scientific Center of the Russian Academy of Sciences, the leading Russian and foreign scientific and educational institutions and large enterprises in the region.

The faculty has five departments:

- Analytical Chemistry
  trains students using classical and instrumental methods of chemical analysis of natural, industrial facilities and multi-component complex mixtures;

- General and Inorganic Chemistry
  trains inorganic chemists, experts in the field of hydrochemistry, bioinorganic chemistry, and bioinorganic electrochemistry;

- Organic Chemistry
  provides training in both theoretical and applied organic chemistry. It trains specialists in the study of natural organic raw materials - oil, gas, coal and wood, as well as in the field of polymers and fine chemicals, demanded for innovative pharmaceutical industries;

- Physical Methods of Analysis
  trains specialists in the field of modern physical methods, required in science and in the high-tech production. The transformation of molecules using quantum chemistry is being studied in addition to the study of unusual valence states of transition metals;

- Physical and Colloid Chemistry
  trains specialists in the field of metal complex catalysis and nanotechnology, which is widely used in oil - and coal-chemical processes.

In its educational activities the faculty keeps in touch with other Russian universities, academic institutions, RAS, and business.
COURSES OF STUDY
BACHELOR DEGREE PROGRAM
Full-time Study
Period of Study – 4 years

<table>
<thead>
<tr>
<th>Speciality</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Chemistry</td>
<td>Organic and Bioorganic Chemistry; Inorganic Chemistry and Chemistry of Coordination Compounds</td>
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MASTER DEGREE PROGRAM
Full-time Study
Period of Study – 2 years

<table>
<thead>
<tr>
<th>Speciality</th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>Organic Chemistry; Inorganic Chemistry; Analytical Chemistry; Physical Chemistry; Chemistry of Environment, Chemical Expertise and Environmental Security</td>
</tr>
</tbody>
</table>

RESEARCH
- Chemistry of complex compounds in transition metals of low oxidation. Inorganic ion-exchangers based on tin phosphate. Bioinorganic electrochemistry as applied to the solution of some health problems, and the creation of microbial fuel elements. Chemistry and electrochemistry of natural bioactive compounds.
The faculty of pedagogics has been training qualified specialists for the past 50 years. It currently continues its well-established activities and is actively developing.

The graduate students obtained Bachelor degree in Pedagogics have the opportunity to pursue their studies.

The faculty offers the following Master degree programs:

- “Higher Education”
- “Management of education” (Elementary/infant)
- “Social pedagogics”

The Faculty of Pedagogics traditionally offers Ph.D. programs in two specialties: “General pedagogics, history of pedagogics and education” and “Pedagogical psychology”.

The graduate students of the faculty can work not only in the sphere of education but also in psychological–pedagogical services in enterprises, administrative bodies, law-enforcement system, journalism, commerce and so on.

63 lecturers work at the faculty, among them 6 professors and doctors of science, 37 associate professors and Ph.D. holders.

**Departments:**

- Psychology and Pedagogics of Elementary Education;
- Psychology and Pedagogics of Infant Education;
- Social Pedagogics and Psychology;
- Pedagogics;
- Physical-Sporting and Medico Biological Disciplines.

There is an educational portal, computer rooms with Internet access, multimedia devices, interactive boards and distance education technologies.

Today the faculty of pedagogics has all necessary conditions to guarantee its students successful study, a bright student life and a quick career.

**COURSES OF STUDY**

**BACHELOR DEGREE PROGRAM**

**Full-time Study**

**Period of Study – 4 years**

<table>
<thead>
<tr>
<th>Speciality</th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedagogical education</td>
<td>Elementary education</td>
</tr>
<tr>
<td></td>
<td>Infant education</td>
</tr>
<tr>
<td></td>
<td>Physical education</td>
</tr>
<tr>
<td>Psychological-pedagogical education</td>
<td>Social pedagogics and psychology</td>
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<tr>
<td></td>
<td>Psychology and pedagogics of elementary education</td>
</tr>
<tr>
<td></td>
<td>Psychology and pedagogics of infant education</td>
</tr>
</tbody>
</table>
Faculty of Mathematics,
Physics and Computer Science
The Faculty of Mathematics, Physics and Computer Science was founded in 1917 and is one of the oldest faculties of Eastern Siberia. It trains teachers working in educational institutions of the Siberian region.

Currently, the faculty conducts educational activity in the following courses:

“Physics – mathematics Education” (Bachelor degree program)
“Pedagogical Education” (Bachelor and Master degree programs),
“Technical Physics” (Bachelor degree program),
“Professional Education (Computer Science and Computer engineering)” (Bachelor degree program),
“Professional Education (Electronics, radio engineering, communication)” (Bachelor degree program).

The faculty has three departments:
• Mathematics and Methods of Teaching Mathematics;
• Physics;
• Computer Science and Methods of Teaching Computer Science.
Faculty of Applied Psychology

COURSES OF STUDY

BACHELOR DEGREE PROGRAM

*Full-time Study*

*Period of Study – 4 years*

<table>
<thead>
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<th>Speciality</th>
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<td>Psycho-pedagogic education</td>
<td>Psychology of Personality</td>
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<td>Practical Psychology of Development</td>
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MASTER DEGREE PROGRAM

*Full-time Study*

*Period of Study – 2 years*

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<tr>
<th>Speciality</th>
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<tbody>
<tr>
<td>Psycho-pedagogic education</td>
<td>Practical Psychology of Personality</td>
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The staff of the faculty is highly qualified – 80% of them hold academic degrees.

Students have the following advantages:

Students are provided with hostels (the hostels are located three minutes’ walk from academic buildings).

Students can do practical work in schools, colleges, children’s summer camps and universities of Irkutsk region.

The graduate students of the faculty can work in educational institutions, personnel departments, social services and organizations. They can also become consulting psychologists.
Faculty of Computer Science

The Faculty of Computer Science is one of the youngest faculties and was founded on the 25th of January 2011. Currently, the faculty offers training in the following programs:

• Fundamental Informatics and Information Technology;
• Applied Informatics.

Graduate School programs:

• Discrete Mathematics and Mathematical Cybernetics;
• Mathematical Modeling, Numerical Methods and Complexes of Programs.

Students of the faculty have repeatedly participated in competitions in mathematics, computer science and programming of different levels and have won prizes as a team as well as in individual competitions.

Faculty members carry out research in discrete mathematics and mathematical cybernetics in cooperation with Moscow State University, the Institute of Mathematics of the Siberian Branch of the Russian Academy of Sciences, the Siberian Federal University, Kyiv National University and other universities. Staff research associates of the faculty are constantly supported by grants given by the Russian Foundation for Fundamental Research, as in the case of a high-performance server project aiming at solving complex computational problems in the field of discrete mathematics.

Faculty members regularly participate in international and Russian academic conferences and organize international conferences on algebra, mathematical logic, discrete mathematics and mathematical cybernetics in Irkutsk and on Baikal shores.
Faculty of Geography and Natural Sciences

The faculty of Geography and Natural Sciences is one of the oldest faculties not only of our institute, but also of Eastern Siberia. It was founded in 1917 and was the first educational institution in the region of Irkutsk to promote the training of teachers in a wide range of subjects including geography, biology, chemistry, and mineralogy.

Today, the faculty offers additional opportunities for research thanks to the following centers: the Teaching and Research Center of the Institute of Chemistry of the Russian Academy of Sciences, the Scientific Research Center which collaborates with the Institute of Geography of the Russian Academy of Sciences, the Student- Lecturer Club “Portulan” and the Ecological Club “Eclipse”. Moreover, students can participate in the projects of the East Siberian Branch of the Russian Geographical Society.

The faculty has an agrobiological station located in Irkutsk, a nursery specializing in rare species of plants, greenhouses, specialized centers near the Irkutsk Reservoir, as well as in Arshan village, Bolshoe Goluostnoye village and the Maloye Sea where students together with teachers take part in field courses.

The faculty maintains close ties with research institutions of the Academy of Sciences, various universities and institutions such as Irkutsk Medical University, Irkutsk State University and its Institute of Biology, the Limnological Institute of the Siberian Branch of the Russian Academy of Sciences.

Departments:
- Geography, Life safety and Methods;
- Natural Sciences;

The personnel of the departments includes 5 doctors, 18 candidates of sciences, 2 senior lecturers without a degree.

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<th>COURSES OF STUDY</th>
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<tr>
<td>Speciality</td>
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<td>Pedagogical education</td>
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<td>Ecology and Environmental Management</td>
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<td>Chemistry</td>
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<td>Biology</td>
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GRADUATE SCHOOL PROGRAMS:
- Zoology
- Ecology

International Cooperation

The Faculty of Geography and Natural Sciences has put in place joint exchange programs with universities of Poland, Germany, USA, Serbia and Kazakhstan.

In 2012 the University team was awarded the first prize at the 4th International Internet Mathematical Olympiad for Students organized by the Ariel University Center of Samaria (Israel) which had gathered 98 teams from Romania, Israel, Russia, USA, Bulgaria, UK, Poland and Belarus.
Faculty of Special and Inclusive Education

There has always been a great need for specialists in teaching children with various disorders. The faculty of defectology was established in 1963 and its alumni have worked for special schools in the vast territory of Siberia and the Far East. Since 1993, an additional program in psychology was initiated and added to the existing specialties in “Oligophrenopedagogy” and “Logopaedics”.

Departments:
- Pedagogy and Psychology of Special Education and Upbringing;
- Complex correction of children’s developmental disabilities.

The faculty has highly qualified and experienced faculty members, including 3 doctors and 22 candidates of sciences.

COURSES OF STUDY

BACHELOR DEGREE PROGRAM

Full-time Study

Period of Study – 4 years

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<tr>
<th>Speciality</th>
<th>Specialization</th>
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<tr>
<td>Special (Defectology) Education</td>
<td>Oligophrenopedagogy</td>
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<td>Pre-school Defectology</td>
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<td>Logopaedics</td>
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<td>Special Psychology</td>
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MASTER DEGREE PROGRAM:
- Psychological and Pedagogical Maintenance of Inclusive Education

The faculty has its own unique laboratory: the “Psychological and Pedagogical Correction of Children’s Difficulties in Development and Studying” which was created in 1965. The main purpose of the laboratory is to provide diagnostics and correctional care to children with various developmental disabilities and counseling to their parents. Highly qualified specialists of the Department of complex correction of children’s developmental disabilities work at the laboratory. They accumulate diagnostic and methodical data which they further develop in course projects, diploma projects and papers dealing with specific thematic fields.
Faculty of Technology and Entrepreneurship

The Faculty of Technology and Entrepreneurship was created on the basis of the industrial-pedagogical faculty (established in 1962). The faculty’s main department is the Department of Technology, Entrepreneurship and Teaching Methods while its team includes 6 candidates of sciences and 2 doctors of science. The faculty has 24 study facilities including carpentry and metalworking workshops, sewing workshops and a room for food processing.

COURSES OF STUDY

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<tr>
<th>Specialty</th>
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<th>Master Degree program</th>
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<td>Pedagogical Education</td>
<td>Technology</td>
<td>Management in Education</td>
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<td>Professional Study</td>
<td>Transport</td>
<td>Organization of Professional Education</td>
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Graduate School programs:
- Ecology;
- Theory and Methods of Professional Education;
- General Pedagogy. History of Pedagogy.
The Department of Innovative Development (DoID) was created at the beginning of 2013. The DoID is comprised of the Center for Technology Transfer which settles operational issues in the management of innovative processes.

The main purposes of the department are:

- develop an innovative infrastructure of the Irkutsk State University (ISU);
- give professional training in the area of innovation activity and technology transfer;
- commercialize study and research results;
- support business activity of ISU personnel and students;
- contribute to the creation of small businesses and other innovation-related activities.

The main activities of DoID

1. Organize and manage the life cycle of an innovation, from idea to mass production;
2. Involve university students and staff into innovative and entrepreneurial activities;
3. Search for commercially viable research and technology results. Organize their expertise and transfer;
4. Organize and develop designing of high-tech productions based on research-technical and technology projects of the University;
5. Start of small innovative enterprises. Coordinate their activities.

ACHIEVEMENTS

DoID takes an active part in the commercialization of intellectual products.

The department has attracted more than 15 million rubles for the implementation of ISU projects. It should be noted that DoID was the first structure in the Irkutsk region that attracted venture capital investment for innovative projects at an early stage of development.

DoID acted as a co-initiator for creating the startup-school «TAIGA». The goal of the project is to provide young innovators with competencies necessary for business development in the field of commercialization of technology and entrepreneurship.

In 2013 50 projects became residents of the start-up school and went through training in the acceleration program: individual coaching and expert seminars with the participation of reputable Russian and foreign specialists in the field of innovation activities. In addition, there were monthly organized investment sessions. As a result, investors had the opportunity to track the projects at the stage of «packaging».

The acceleration program has become an unforgettable event for Irkutsk; the main outcome of the project is 50 new innovation projects in accordance with the requirements of venture capital investors. These projects will be presented at the Baikal venture fair in 2014.
The Irkutsk State University, one of the oldest universities in Siberia, possesses considerable educational and scientific potential.

Two hundred post-graduate and doctoral students currently study in 17 scientific fields presented in 49 different subfields. Scientific guidance is carried out by 150 scientists, among whom there are 90 Doctors of Science. These include six full members and two corresponding members of the Russian Academy of Science, as well as 30 members of the Branch and Social Academies of Science. Six Thesis Councils in 14 scientific specialties work at ISU. Foreign nationals applying for post-graduate studies should present a master degree diploma with the certificate of equivalency issued by the Russian Ministry of Education and Science. Also, applicants should provide the TORFL (Test of Russian as a Foreign Language) Level 2. The period of full-time study does not exceed 4 years, part-time study (tuition only) – 4 years. Language of instruction is Russian, entrance examinations are held in Russian as well.

More information about the required documents and deadline for their submission: \(\text{http://isu.ru/en/education/courses/graduate.html}\)

**Scientific fields**

- Mathematics and Mechanics
- Computer and Information Sciences
- Physics and Astronomy
- Chemical Sciences
- Earth Sciences
- Biological Sciences
- Computer Science and Technology
- Applied Geology, Mining,
- Oil and Gas Engineering
- Geology, Exploration and Exploitation of Fossil Minerals
- Psychological Sciences
- Economics
- Sociological Sciences
- Jurisprudence
- Mass Media and Library Science
- Linguistics and Literary
- Criticism
- Historical Sciences and Archeology
- Philosophy, Ethics and Religion Studies

**Contacts:** tel.: +7 (3952) 24-22-49

**E-mail:** pribilova@admin.isu.ru
Our scientific schools are internationally known in the fields of fluorescence, ionosphere physics, high energy physics, physical chemistry and catalysis, inorganic chemistry and ore-dressing, macromolecular chemistry, differential and integral equations, optimal control theories, algebra and mathematical logic, the biology and ecology of Lake Baikal, microbiology, archeology, ethnography, and political science, as well as contemporary history, philology, geology and geography. Scientific schools of the university are highly recognized in the higher education system and academic society of Russia and the world.

Training is conducted on contract basis (agreement between host and home institutions and applicant).

More information about the required documents and deadline for their submission:

Scientific fields

- Discrete Mathematics and Mathematical Cybernetics
- Mathematical Modeling, Numerical Methods and Complexes of Programs
- Theoretical Physics
- Radiophysics
- Condensed Matter Physics
- Inorganic Chemistry
- Analytic Chemistry
- Organic Chemistry
- Physical Chemistry
- Ecology
- Hydrobiology
- Russian History
- World History
- Macromolecular Compounds
- Ontology and Theory of Cognition
- Social Philosophy

The educational and scientific divisions of Irkutsk State University have considerable experience of global scale in different interdisciplinary fields and are ready to share it adopting new and progressive information from the international academic community.
The Computer Center of the Irkutsk State University was opened in 1958 as one of six computer centers in the Soviet Union. The Computer Center was comprised of two departments and five laboratories.

The Computer Center was involved in many activities: training of mathematicians-programmers for Eastern Siberia and the Irkutsk region, conducting applied research in information systems, mathematical modeling of dynamic systems, software for the discovery of ore, oil, and gas deposits, and quantum chemistry.

In 1998 the Computer center was transformed into the Center for New Information Technologies.

FUNCTIONS OF CNIT

Today, the ISU Center for New Information Technologies (CNIT) is one of the main structural divisions of the University specializing in information technology and the regional computerization of education. The personnel of CNIT includes forty highly qualified specialists in the field of IT technology.

CNIT has created:
- ISU corporate network;
- cluster of servers used in ISU scientific and administrative activity;
- ISU website and basic information systems of ISU;
- ISU educational and advisory center;
- information system for the scientific and educational center “Baikal”;
- basis for a unified computer network for the Irkutsk region healthcare system;
- information system for the first Baikal economic forum.

Today CNIT supports and develops the following ISU information infrastructure:
- fiber network (more than 35 kilometers long);
- telephone network;
- cluster of 14 servers;
- information systems (more than 20).

CNIT experts provide Internet access through communication channels with a total capacity over 40 Mbps. The telecommunication network, created by CNIT, is one of the best university networks in the country. CNIT technical support maintains more than 850 computers.

There are two laboratories at CNIT: quantum chemistry and information systems.

INTERNATIONAL COOPERATION

CNIT has participated in the programs supported by Microsoft (MSDN, IT pro) and “Creation of Service for Student’s Entrepreneurship” (partners: the Mountain Academy of Freiberg (Germany), the University of Savoie, the Grenoble Institute of Technology (France), the Catholic University of Milan (Italy)).

CNIT specialists were involved in international research projects of the Research and Educational Center “Baikal” aimed at developing interdisciplinary information and analytical systems.
Between 1947 and 1969 the Physics and Chemistry Scientific Research Center was housed at the university. In 1966 the Ministry of Higher and Technical Education of the RSFSR created the laboratory of luminescence and the electro-luminescence of crystalline substances as part of the department of experimental physics. In 1970 out of these two subdivisions of the university the Research Institute of Applied Physics at ISU was organized.

The most famous project undertaken by this institute was the creation of the Baikal deepwater neutrino telescope, currently located in the southern part of Lake Baikal. The telescope was made to conduct research on muon streams and high energy neutrinos in the makeup of cosmic rays and in the research for rare processes and new types of element particles, for example massive particles, candidates for the role of dark matter.

Today the Research Institute of Applied Physics at ISU is run by Nikolai Mikhailovich Budnev, Doctor of mathematical physics; member of the Scientific Council of the Russian Academy of Sciences in the field of cosmic rays; head of the ISU group for the following international collaborations: Baikal, Tunka, Tunka-HiSCORE, MASTER; head of the research and educational group “Complex Interdisciplinary Research of Natural Processes in Major Projects” (the Baikal neutrino telescope and the scientific outpost “Tunka” and the educational science research center “Baikal”).

The institute is one of the most outstanding research centers in the entire region: it is mobile, modern, and more than capable of carrying out world caliber projects.

Fundamental research is carried out in the field of astrophysics of high energies, radio-physics, condensed-state physics, Earth science, in addition to applied research for the development of spectral methods in the diagnostics of engines, the isolation of diamonds, etc., the results of which are under the protection of international patents.

In 2012 scientists from the institute, in conjunction with researchers from Moscow, developed an installation unlike any other in the world that will be able to predict large-scale earthquakes. The fine-tuned and highly precise installation was put into commission at a depth of 1300 meters in the Baikal rift zone, one of the most seismically active regions in the world.

In 2013 our scientists won a large grant of 90 million rubles from the Ministry of Education and Science. The goal of the project that the money has been earmarked for is the search for and study of galactic accelerators using methods of gamma and cosmic ray physics at a record level of sensitivity. At the ISU research center in the Tunkinsk valley, the world’s largest gamma telescope “Tunka-HiSCORE” is under construction.
In 2013 the Research Institute of Biology at ISU celebrated its 90th anniversary. It was first organized on the 16th of March, 1923, only 5 years after the founding of the university itself.

At the Research Institute of Biology there are 5 of the Doctor of Sciences (Dr. Sci.) degree, more than 20 Ph.D.s, and approximately 40 holders of the Russian specialist's degree employed, whose own scientific careers started here and who now work at leading institutes of higher education in Irkutsk and throughout Russia.

Over the past 30 years, 30 Dr. Sci. and 60 Ph.D. theses, and approximately 200 specialist's diploma projects have been successfully defended. The scientific publications by researchers at the institute number in the thousands with more than 80 patents to the researchers' credit. International cooperation plays an important role at the institute with 20 different partner universities and scientific centers in USA, Germany, New Zealand, Israel, Singapore, China and South Korea.

The founding of the Research Institute of Biology was due in part to the need to study Lake Baikal in detail. So for this reason during the first few decades the institute was called the Biology-Geography Institute and housed in addition to biologists, geologists, medical professionals and even ethnographers.

The study of the microclimates, flora, and fauna of Lake Baikal was carried out by the most famous Irkutsk researchers: B.A. Svarchevsky, V.Ch. Dorogostajsky, V.N. Yasnitsky, C.I. Timofeev, and V.I. Smirnov among others.

A dynasty of scientists worked to found the institute, the most famous of whom was the esteemed Russian doctor of biology, Professor M.M. Kozhov (1890-1968).

At the present moment there are 5 laboratories that carry out fundamental and applied studies in different fields and topics.

The Laboratory of general hydrobiology: appropriate function of the ecosystem of Lake Baikal, as well as microbiological monitoring of Lake Baikal; the study of the mechanisms of existence for the various communities of microorganisms in the lake.

The Laboratory of ecology and Baikal sciences: the study of bottom invertebrates in Lake Baikal, Khubsugul, the Angara and its reservoirs, a number of minor bodies of water in Eastern Siberia and Yakutia, and the study of water fowl.

The Laboratory of aquatic toxicology: the study of the special ecological features of invertebrates in Baikal and the near Baikal area, their role in the process of self-cleaning; the development of biological methods for the cleaning and reparation of fresh-water systems.

The Laboratory of experimental biotechnology: study for the protection of buildings from biological causes of damage; the search for and isolation of biologically active substances from fungi. This laboratory plans to turn its experiments and results into completely new products to better defend the health of people.

The Laboratory “Biological systems adaptation” focused on comparative study of physiological mechanisms of environmental adaptation and stress tolerance in highly specialized endemic species from of Lake Baikal and common Palearctic species. Understanding the differences in tolerance and stress protection mechanisms between these species will provide important information for predicting the resilience of unique endemic Baikal fauna in the face of global climate change and may have important implications for future studies of the effects of global climate change on other ancient ecosystems worldwide.
The mission of the Research Institute of Oil and Coal Chemical Synthesis (SRIOCCS), founded in 1955 as part of the East-Siberian branch of the Academy of the Sciences of the USSR, was originally oriented on major chemical and petrochemical enterprises in the Irkutsk region where production actively developed and where the developments by scientists in this sphere was in great need.

In the early 1960s during a wave of reforms in education throughout the entire country, science as a field of study and practice was moved to universities to strengthen the academic potential of the field. For this reason, in 1963, the academic institute for both fundamental and applied problems appeared as part of the university.

“Ever since the reforms, the chemistry faculty at ISU and SRIOCCS have been closely tied to each other; oftentimes it is even difficult to distinguish where one ends and the other begins,” director of SRIOCCS Russian Candidate of Science holder (Ph.D.). Many colleagues at the institute are teachers at the Chemistry Faculty. Upperclassmen in laboratories at SRIOCCS prepare certified master’s theses in conjunction with their academic advisors. We hold to the classic principle that education is only attained through academic study and research. At our institute there are three departments and seven laboratories in which our professors, teachers, and student-chemists work to create new scientific ideas. Much of the research conducted at the institute saw its beginning in the 1950s when the main fields were catalytic chemistry and in that same vein, complex metal catalysis, organic synthesis and the synthesis of new high-molecular compounds, roentgen-fluorescent analysis, analytical and inorganic chemistry.

Of particular importance is hydrochemistry. Each division is associated with famous scientists. “These scientists were of course my teachers: Fyodor Karlovich Schmidt, the rector of ISU between 1990-1997 who at present is the head of the laboratory of catalysis at the institute; Antonina Nikonovna Smagunova, the department chair of the laboratory of roentgen-fluorescent analysis; the senior teacher Leonty Il’ich Vereschagin, the head research colleague at the institute; Grigory Moiseevich Shpejzer who has been for many years studying the hydro-mineral resources of the planet,” director of SRIOCCS.

The institute is comprised of academic-research schools where knowledge and most importantly, interest in and passion for research are conferred. To attract materially students who are drawn by large scientific centers with more opportunities is at the present moment difficult.

For that reason, the interest of the institute is our upper-level graduate students who are the main force driving science all across the world. These enthusiastic people spend a great deal of time in the laboratory, so naturally we want to support them in their endeavors. The goal to rejuvenate our work by preserving our scientific schools stands before us.

A joint Soviet-Mongolian expedition to Khubsugul was organized in 1970. Over the course of 2 decades hydro-chemical studies were conducted on the watershed of the Khubsugul lake, the Selenga river, and other bodies of water.
The Botanic Garden is the only botanic garden in the Lake Baikal region. Founded in 1940, this living museum serves as an educational and scientific arm of the University. It is being used by university departments as a cross-disciplinary facility in a broad range of disciplines including botany, zoology, ecology, agronomy, soil science, geography, landscape architecture, management, economics, mathematics, informatics, psychology, social sciences and sociology, service and marketing, and tourism.

It occupies 27 hectares and it has a status of federal strictly protected land. Through the accumulation of largest regional plant collections (~5000 taxa) the Garden works as a plant nursery, as well as a gene bank. It is becoming an innovative science-based complex promoting socio-economic development of the region by introduction of new economically valuable plants (incl. apples, pears, apricots, etc.), preservation of biodiversity and rare plants, creation of a friendly and safe environment, greening of cities, educating and training of different groups of the public, propagation of valuable plants for local population.

The Botanic Garden became the world first participant in the global initiative project “Green Legacy of Hiroshima” supported by the UNITAR (UNESCO) established in 2011 to safeguard, propagate and spread worldwide the seeds and saplings of plants that survived the atomic bombing of Hiroshima in August of 1945. These A-Bomb survivor trees serve as active peace ambassadors and reminders of the victims of all wars, a call to support peace and safekeeping of the planet for our posterity.

The Gardens’ role as a multifunctional university unit has grown greatly over the past two decades. Students and the general public gladly come to our greenhouses where lianas, palms, four-meter high cacti and other flowering plants grow year-round. The Garden’s staff provides excursions/tours in the open collections and the greenhouses. It has become an exclusive source of elite fruit and ornamental trees, shrubs, exotic plants, and perennials for many gardeners and nature lovers.
For these reasons, the Botanic Garden should not be considered just as a minor non-core resource but also as a Shared Research and Educational Centre facilitating extended education programs and practical application of ecological innovations. For example, topical courses for the improvement of one’s qualification in horticultural therapy and gardening have been established in collaboration with the Biology-and-Soil Faculty and the Institute of Social Sciences.

A Garden’s friendly atmosphere promotes environmental debates among students, intellectuals and environmentally-minded citizens. For instance, in winter 2011 the concept for the environmental reformation of Irkutsk into “Eco-Logical City” was born here as a result of public discussions. Thanks to this new idea many citizens initiated a new movement “Let’s Do Irkutsk Eco-Logical!” as well as environmental projects, city cleaning, the restoration of city forests and parks, ecology focused contests, etc. over the past two years. Hundreds of volunteers planted more than 2000 pine saplings in the heavily damaged city forest, the Kaya Pine Grove.

The Botanic Garden’s staff often takes part in international scientific forums worldwide and even hosts such events in Irkutsk. The Garden currently is working in collaboration with East Asia botanic gardens for the development of approaches and international policy guidelines for the East Asia Botanic Gardens Network on biodiversity conservation, protection and access to plant genetic resources.

In 2012 the first Japanese Garden in the Asia’s center was created at the Botanic Garden’s staff and students under the leadership of two Japanese professors and their students from the Hokkaido University.
In Russian universities there are no more than a dozen astronomical observatories. Among them is the observatory at the Irkutsk State University. It was founded by an order from the Ministry of Education of the Soviet Union in 1931, making it one of the oldest observatories east of the Ural Mountains and the only university operated observatory from Tomsk to the Pacific Ocean.

The ISU observatory traditionally worked for the popularization of astronomy. The archives contain hundreds of newspapers and journals of popular scientific publication prepared by workers of the observatory. During the Soviet Union the observatory made flyers about upcoming eclipses, offered lectures about astronomy throughout the Irkutsk region, and led classes for teachers of astronomy. Today work continues on a new level: there are public lectures, work with mass media, event nights such as “Street Astronomy,” an event during which telescopes are placed outside so that any passerby in the city might look at the moon and planets.

For many years the observatory participated in international and domestic research that provided us with the identification of the parameters of the revolution of Earth. With the help of the zenith telescope and transit instruments, the observatory monitored the movement of the geographic pole of our planet and the speed of its revolution on its axis. The ISU observatory has always been one of the premier and most respected observatories in the nation because of its success in producing precise astronomical observations. The observatory began optically monitoring satellites orbiting Earth ever since the first satellite was launched into space by the USSR in 1957. Originally, all observations were conducted using the naked eye by students and
teachers of the physical mathematics faculty at the university. Only later were observations of satellites operated using photography. After 1962 the observatory participated in synchronized observations of satellites with Moscow, Novosibirsk, Hanoi, and Ulan-Bator. In 1963 the station at the observatory became the lead in such projects for the eastern half of the country.

After this project was closed in 1975, the observatory began studying silver clouds—a mysterious condensate on particles of meteor dust at a tremendously high altitude.

The observatory today is comprised of ten staff members who conduct research in three fields. The first is the study of the Sun begun in 1940 and continuing through the present day on a new level. There are daily observations of solar spots (conducted by S.I. Raschetin and V.V. Kaplenko), the monitoring of complexes of activity on the Sun: gigantic magnetic structures that are responsible for the solar activity that affects processes on Earth. Candidate of Science in physical mathematics, V.I. Sidorov received a series of important results in the field of the theory of solar flares. Workers at the observatory, doctor of physical mathematics, S.A. Yazev and D.V. Semenov, have taken part in the field observations of seven full solar eclipses in various parts of the world.

The ISU observatory along with the Research Institute of Applied Physics at ISU take an active part in the project involving a network of telescopes known as “MASTER” developed by the astronomers at the Moscow State University. The automated station “MASTER-2” in the Tunkinsky valley tracks various subjects in the Universe including explosions in the vicinity of black holes and flares of supernovae. K.I. Ivanov, also a worker at the observatory, is looking for planets near stars. In September of 2013, with the help of the tunkinsky telescope, a 250 meter long asteroid was discovered and then added to the list of objects that present a future threat to Earth.

Research in the field of meteor astronomy has begun at the observatory. Under the leadership of E.S. Komarova in 2013, two wide-angled cameras were operated simultaneously for the first time from two different locations: from scientific observation stations in Listvianka and Bolshie Koty. This work will allow the scientists to determine the speed and trajectory of flight of meteors as well as the altitude at which they burn in the atmosphere.

Sergei Arkturovich Yazev, a doctor of physical mathematics and the third representative of a dynasty of astronomers in Irkutsk, has been the director of the observatory since 1997. The associate professor Ivan Yazev worked in the Pulkovskaya, Nikolaevskaya, and Poltavskaya observatories, between 1948 and 1955 was head of the observatory at ISU. His son, Arktur Yazev, candidate of science in physical mathematics, who began working at the observatory as a student, made astronomical observations with transit instruments for more than fifty years. S.A. Yazev’s mother, Kira Sergeevna Mansurova, candidate of science in physical mathematics, began working at the ISU observatory in 1957 and later worked as the director between 1972 and 1988. The asteroid № 6845 was named in her honor.
Students of the University are actively involved into extracurricular activities that are not only fun but beneficial.

**ISU Sports Club** promotes sport and a healthy lifestyle. It informs students about the sporting life of the University, the city, the region, as well as organizes students’ leisure time through a constantly increasing number of sports and cultural events.

**ISU Club of Intellectuals** holds regular intellectual games at the University and participates in city games, National and International synchronous championships. The new direction of the Club is collectible cards games and organization of championships in games such as “Magic: the gathering”, “Munchkin”, “Berserk”. The players of the club are leading in Russia! Besides, the Club holds regular discussions on current topics for students. A great achievement is the School League for Intellectual Games.

**ISU Club of the Cheerful and the Resourceful (KVN)** exists at the University since 1998. ISU KVN team is the champion of Premier League of the International Union of KVN, participant of the higher KVN league. KVN team have repeatedly been the champion of KVN Asian league in Krasnoyarsk, presented our University in various cities in the region of Irkutsk, in Belarus and Latvia.

**Students Union** provides a broad social support for students including medical insurance, free summer holiday, consultations on additional help and support from the administration of Irkutsk, Irkutsk Oblast, and other sources; concession tickets for tram, trolleybus and bus with 50% discount for low-income students. The Union created student discount card, through which students can buy food and receive different services at a discount.
The center of culture and leisure was created in 2006. Nevertheless, those individuals and groups who would join its ranks predate its founding. A prime example of a group that was founded before the creation of the Center for Culture and Leisure, the pride of the university, is the ISU Youth Choir. It is one of the oldest amateur groups in Eastern Siberia having been around for nearly half a century. There are around forty students and alumni who are part of this organization.

Currently at the Center for Culture and Leisure there are other groups besides the youth choir that are part of the center, such as the art group “Higher School,” the dance ensemble “Reverence,” the Buryat dance ensemble “Ulzy,” and the ballroom dance group “Inspiration.”

Not long ago two new and rather unique groups joined the ranks of the center being the school of ethnic drums “Jam-Bei” and the laboratory of innovative arts called “Contrast,” the latter being a group that creates unique, alternative collections of clothing. Since last year the studio of variety music and the studio of high-society dance also joined the center. Nearly all the groups have participated in multiple international festivals in both Russia and abroad.

The center stages a multitude of events: festivals, competitions, concerts, and special university dates—such as anniversaries and main functions. These events include the competition in mastery and talent “Thank God, You Came!” for the first and second year students, the open competition in student creativity called “Neformat,” the literary artistic competition “Ellipsis,” the open festival-competition of light “Flash,” the patriotic music competition, the Russian culture festival “We’ll Sing it in Russian,” and the festival called “Student Spring in Irkutsk.” Along with the primary worker’s union at the university, the center organizes a large student ball for the anniversary of the university’s founding and the competition “Faces of ISU.” In addition, the Center for Culture and Leisure takes part in the yearly projects “Hello, University!” and the exhibition “Education. Profession. Career.”

Teachers at ISU confirm that participation by their students in groups and events at the Center for Culture and Leisure has a positive impact on the success of the students in class. All students who take part in the center, as a rule, get good marks, named scholarships, and upon graduation, work in their field, completely making use of the knowledge gained in their chosen profession.
Citius! Altius! Fortius!

The Physical-Education Center of ISU (PED) was organized by the department of physical education and sport, which itself has been in existence for 65 years, and by the sport club. The creative staff of teachers solve all tasks before for them, be they academic, methodological, research related, general physical education in nature, or about improving health through sport.

The teachers at PED lead courses for the first three years of study in the following disciplines: athletics, skiing, general physical education, special medical services, and sport mastery. In conjunction with the Moscow State University (MSU) the department conducts research monitoring the physical development and the overall students’ potential physical state of health.

At PED there are 13 full-time teachers. Among their ranks: 1 professor, 3 associate professors, 11 senior teachers, 2 holders of the Russian degree of candidate of science in pedagogy, 1 in philosophy, and 1 in biology, 2 state awarded workers of physical education in the Russian Federation, 9 award winners in physical education, 10 masters of sport, and 2 candidates for master of sport. There are 8 coaches working for the perfection of the students in the sports of basketball, volleyball, soccer, athletics, skiing, and fitness/aerobics.

PED allocates a substantial amount of time on general and health-improving sport. More than 6 thousand students and graduate students take part in the programs supported by the center.

Every year the following activities are hosted for students:
- Sports contest among first-year students in four sports: chess, table tennis, mini-soccer, and athletics.
- Sports contest among students in the institute and faculty championships in 10 sports: athletics, volleyball, table tennis, chess, mini-soccer, basketball, skiing, and karate.
- Personal and open championships of ISU among students in 7 sports: mini-soccer, table tennis, chess, tennis, sport orientation, skiing, and karate.

Students and staff at the university take the most active part in the mass sporting events of “Days of Health”, “Cross of the People”, “Ski Russia”, “Winter Games”, “Student Winter”, and the “Contest in Physical Education”.

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The ISU sports teams take successful part in inter-university competitions from around the Irkutsk region, championships in the city, federal and regional student competitions, the Russian championships in fitness/aerobics, athletics, basketball, volleyball, skiing, soccer, karate, hand-to-hand combat, and chess.

At the university there are 4 awarded masters of sport, 5 masters of sport at the international level, 86 masters of sport, 380 candidates for master of sport, 600 people at the first rank, and 1800 in the general category.

Many well-known and respected sportsmen, winners and prize-holders from the European Championships, the World championships, and the Olympic Games, who have been written in the annals of Russian sport, have studied at or currently study at the university.

PED holds an annual sports ball for their athlete alumni, the achievements of whom are recorded in the sport history of the university, having won the university medals for their victories at international, Russian, regional, and city competitions.

International activity

PED runs a joint academic partnership with the private institution of higher education “Karagandinsky University ‘Bolashak’” in the Republic of Kazakhstan. The center is developing international cooperation using a university-partner program between ISU and the Pai Chai University in South Korea with the Belostoksky Teaching Board of work rehabilitation, social relaxation, and physical education, and with the University of Latvia.

PED welcomes future international academic projects and friendly sporting competitions in: fitness/aerobics (men’s and women’s), athletics (men’s and women’s), volleyball (women’s), basketball (men’s and women’s), and mixed eastern martial arts.