

Ministry of education and science of the Republic of Kazakhstan  
Republican state enterprise on right of economic management

## RUDNY INDUSTRIAL INSTITUTE

Flagship for engineers training of the Northern Kazakhstan with more than half a century history

### **About the Institute**

Republican State Enterprise with the right of economic management «Rudny Industrial Institute» of the Ministry of Education and Science of the Republic of Kazakhstan (state registration certificate No. 635-1937-19-GP dated 12.09.2012, license No. 12017141 dated 21.11.2012) Rudny industrial Institute is being a center for engineers training in mining, power engineering and construction industries in the north of Kazakhstan for more than 50 years.

When implementing institute's educational programs, their compliance with the labor market needs is ensured by rather high percentages of graduates' employment (95-97% on the average).

### **Institute's Awards and diplomas**

On May 3rd, 2014, at the meeting of the Accreditation Council of IAAR (independent agency of accreditation and rating), there was taken a decision on institutional accreditation of RII for a 5 year period.

In March 2015, 17 educational programs of the Institute passed specialized accreditation; the validity of the certificate is from 17.04.2015 till 16.04.2020.

According to Independent Kazakhstan Agency for Quality Assurance in Education, Rudny Industrial Institute ranked 11th in the National rating of the best technical universities in Kazakhstan.

8 educational programs of the baccalaureate of the Rudny Industrial Institute passed international specialized accreditation at the ACQUIN Institute of Accreditation, Certification and Quality Assurance (Germany) and received certificates with the ACQUIN quality mark. Rudny Industrial Institute has many diplomas and letters of appreciation.

### **Rector of the Institute**

Rector of RII - Prof. Naizabekov Abdrakhman Batyrbekovich, Doctor of Technical Sciences, corresponding member of International Engineering Academy and National Engineering Academy of the Republic of Kazakhstan, Academician of National Academy of Higher Education Sciences, academician of natural sciences of the Republic of Kazakhstan.

According to the information directory «Science of Kazakhstan in figures», rector of the Institute (N.A. Naizabekov) is on the list of the most published Kazakhstani scientists, Web of Science.

The most important principles of highly qualified specialists training in the institute are:

- special system for talented youth selecting;
- fundamental natural science training at junior courses;
- targeted special training at senior courses;
- introduction of new information and telecommunication technologies and teaching methods.

RII actively implements the most advanced innovative educational programs, credit technology, distance learning form, testing system for monitoring student knowledge into educational process.

Interactive teaching methods including electronic textbooks, video lectures, audio courses, computer training programs, virtual laboratory work and etc. are actively used in RII

### **Structure of RII**

In the structure of the Institute there are:

3 faculties: Mining and Metallurgy Faculty, Faculty of Power Engineering and Information Systems, Faculty of Economics and Civil Engineering and center of Distance Learning Faculty;

6 departments: Economics and Management; Civil engineering and Construction materials; Engineering, Social and Humanitarian Disciplines; Power Engineering and Heat Power engineering; Automation, Information Systems and Safety; Mining and Metallurgy.

Today Rudny Industrial Institute includes:

- ✓ 4 training and laboratory buildings;
- ✓ 2 indoor sports halls and an outdoor stadium,
- ✓ a food factory equipped with new equipment,
- ✓ concert hall with modern musical and lighting equipment;
- ✓ a library with a subscription and three reading rooms, with a half-million book fund and IRBIS library computer system;
- ✓ computer classes for independent work of students;
- ✓ editorial and publishing center and a student service center;
- ✓ two well-equipped student hostels with comfortable living conditions for adequate rest and study.

use in the learning process of software Microsoft Office 365, GEOVIA Surpac, «Micromine», MICROSOFT IMAGINE ACADEMY,

It has been created a technically equipped modern educational and laboratory base with the possibilities for conducting scientific research in order to prepare competitive specialists in the institute. These are classrooms equipped with modern standards,

technological and laboratory equipment, modern electronic computing and audiovisual equipment.

- ✓ Professional practice at the enterprises that are leaders in the industry: JSC SSGPO, KAZ Minerals, Knauf Gips KG, Kazakhstan office of Microsoft LLC, SaryarkaAuto-Prom LLP, Maikromain Central Asia, Utahria LLP, «BASIS-

A», LLP «Knauf Gypsum Kapchagai», PrK «Bolshevichka» and others. The financial position of the institute is stable. The Institute has no salary arrears, there are no arrears of tax liabilities to suppliers and that is an indicator of a stable activity.

### **Staff and Scientific work**

Rudny Industrial Institute is a state HEI with high scientific potential, possessing a talented teaching staff. Among teaching staff are academicians, corresponding members of Kazakhstan and International Academies of Sciences, doctors and candidates of sciences, professors and associate professors.

The Institute employs prominent scientists whose scientific development is known not only in Kazakhstan, but also beyond its borders. Repeatedly teachers of RII on the results of the republican competition were awarded the title “The best teacher of the university”.

Annually the teaching staff of the Institute undergo further training, internships in leading universities of Kazakhstan and abroad, study under graduate and master’s programs, participate in international conferences, symposiums, seminars in Russia, Poland, Hungary, Italy, the USA, Germany, France, China, etc.

In 2017, the Council of Young Scientists of the Institute became the best in the category «Best Video Conference» following the results of the first republican contest «The Best Staff of G-global».

The Institute annually publishes collections of scientific works, monographs, textbooks and teaching aids, it is constantly conducted scientific research on topical issues.

One of the most common forms of students research work is the work in scientific circles. Conferences, Olympiads for students, seminars and round tables are held on the basis of the institute every year. Traditionally, students of Rudny Industrial Institute are the winners of International and Republican Scientific Competitions and Olympiads.

### **International cooperation**

International activity of Rudny Industrial Institute is aimed at developing partnership relations with universities of foreign countries, at implementation of joint educational and research projects, and intensification of academic exchange of students and teachers. Cooperation agreements have been concluded between the US, Australia, the UK, Germany, Finland, Czech Republic, Poland, China, Ukraine and the Russian Federation.

Since 2005, Rudny Industrial Institute has been working within the framework of the agreement on cooperation with International Association for exchange program in Technical Specialties (IAESTE), according to which students of the Institute pass work training in countries of far abroad. For eight years more than 50 students of RII have successfully passed summer practice in the countries of Europe and have received certificates of international standard.

Work is being done with Ural State Economic University and South Ural State University (Russian Federation) to implement the project on twodiploma education in economic specialties of the bachelor's degree.

Within two years, in the framework of international scientific cooperation and foreign economic activity, Rudny Industrial Institute, together with scientists from Germany, Latvia, Estonia and the Russian Federation, is implementing the joint European project TEMPUS "Eco Engineering-Processing of Information on the state of the Environment and Sustainable Development of Renewable Resources and Biological Wastes".

Currently, work is being carried out within the framework of TEMPUS project «Professional ICT education for Russia and Kazakhstan» based on European Qualifications Framework, jointly with the universities of Italy, Bulgaria, Greece, the Russian Federation, and others.

Agreements on cooperation with Częstochowa Polytechnic University and Technical University of Ostrava have been concluded, that allow joint scientific development, academic mobility of students and teachers, and participating in international educational programs and projects.

A cooperation agreement has been signed between Harbin University of Commerce (China) and Rudny Industrial Institute and a Protocol of intentions has been signed to establish a Center for Transformation of Technologies and Joint Innovations in Old Industrial Regions of the CIS and China.

In 2014 Rudny Industrial Institute entered a new international association - the University League of Treaty Organizations on Collective Security (CSTO). The agreement was signed by 25 educational institutions and organizations from Russia, Kazakhstan, Kyrgyzstan, Tajikistan, Armenia, Belarus, within the framework of the 5th Eurasian Economic Youth Forum "Dialogue of Civilizations: Green Economy" (Yekaterinburg, the Russian Federation).

In 2017 Rudny Industrial Institute joined in with the Black Sea and Eastern Mediterranean Academic Network – BSEMAN, which combined 14 universities and 9 countries: Aristotle University of Thessaloniki, Greece, Rostov State University of Economics, Russia; Jordan University of Science and Technology; European University of Cyprus; Tsenov Academy of Economics, Bulgaria; Open University of Cyprus; Rudny Industrial Institute, Kazakhstan; Belarus State Economic University, Republic of Belorussia; University of National and World Economy, Bulgaria; University of Nicosia, Cyprus; Birzeit University, Palestine; Islamic University of Gaza, Palestine; Okan University, Turkey; Bilkent University, Turkey.

### **Corporate partnership**

One of strategic directions for the development of Rudny Industrial Institute is improvement of the corporate partnership mechanism. The data bank on working with employers has more than 150 partner enterprises.

Educational process in Rudny Industrial Institute has been substantially modernized in order to strengthen its practical component. Curriculums of

specialties are practically oriented, coordinated with potential employers, being the corporate partners of the Institute.

Particular attention in the Institute is paid to practical preparation of students. At present, 151 longterm contracts for the conduct of professional practices and 19 contracts on corporate cooperation have been concluded and are being implemented in the Institute.

In recent years, the Institute has accumulated a certain experience in organizing targeted training of specialists on orders of enterprises, being strategic partners of the university. 200 students participate in grant programs of customers and ERG scholarship program. A great work is carried out within the framework of a bilateral agreement on cooperation with JSC “Sokolov-Sarbai ore mining and processing enterprise”.

In order to improve the quality of education, an evening form of education is organized. Educational process of students is organized in accordance with the State Educational Standards of specialties, lessons are held 3-4 days a week in the evening, so the students are able to successfully combine their studies with their work activities.

When forming the subjects of students course and diploma projects (work) the orders of partner enterprises for the development of engineering solutions, followed by defense of completed graduate projects (works) at the enterprise are taken into account (annually 10-12% of students pass the defense of diploma projects (works) in production).

An integral part of professional competence is practical training of future specialists. In Rudny Industrial Institute, professional practice of students of all specialties is conducted, beginning with the second year. For all technical specialties of the institute, the duration of professional practice is increased to 40%. Within the framework of the agreement with SSGPO, 2 and 3 year students of technical specialties are simultaneously trained free of charge on the courses of working professions during the summer practice in subdivisions of SSGPO.

In working with corporate partners special attention is paid to the employment of graduates. In order to increase the employment process a wide range of events is held every year.

JSC SSGPO is the main corporate partner of RII. About 3000 graduates of Rudny Industrial Institute successfully work at JSC SSGPO. Annually, as a result of the distribution at the enterprise, more than 30% of graduates are employed, who are able to perceive and implement innovations, create capital and knowledge-intensive industries.

### **Educational work with students**

Educational work of the institute is organized, purposeful process of developing students as an individual, a citizen, mastering and accepting values, moral standards and moral norms of society.

The institution of selfgovernment of students in the form of the Council of Students of the Institute and the councils of students living in hostels, the youth

wing “Zhas Otan” with the NDP “Nur-Otan”, the Alliance of Students of Kazakhstan are actively working at the Institute. Also the program «Zhasyl El» is successfully implemented, where student work groups are formed.

Minor Assembly of students of RII is formed at RII. The Alliance of Students and Entrepreneurs was created, which is a consultative and advisory body on the formation of institutional foundations for growth and further development of entrepreneurial thinking in the student environment. Within the framework of this Alliance, since January 2015, the Institute has opened a Business School.

The following circles and clubs work for the students:

“Faculty” vocal group, dance groups “Dance Line”, “Daemons” and “I & SO”, debating club “Tarlan” (Russian and Kazakh leagues), club of volunteers of RII, KVN team, fashion theater, club of guitarists, club “Kazakh tilinin hanashyrlary”, school of student’s asset “Leader”, student press center, etc.

Rudny Industrial Institute annually takes an active part in the regional interuniversity “Student Spring” festival.

Students of the Institute are winners and prizewinners of international, republican and regional tournaments in sports. There are two sports halls, a gym, a ski base, a stadium in RII. Sections on volleyball, basketball, mini-football, karate are organized in order to improve students’ sports skills.