Dear Readers,

In the recent months we have often come across information concerning the situation of university graduates on the labour market, or an alleged lack of collaboration between the academic and business worlds.

Alarming words heard from some participants in the discussion, who claim that universities "educate the unemployed", can be quite worrying and disturbing. Whether these opinions have anything to do with reality or not, it is a good moment to think even more carefully about your educational path. Universities, similarly to any other company or institution, can be better or worse. The popularity of AGH UST, measured by year-to-year increasing interest among potential students indicates that while choosing one of the leading universities in Poland – the AGH University of Science and Technology in Krakow – secondary school leavers are aware of great opportunities for an interesting and successful professional career. The cooperation of AGH UST with its surroundings (in the broad sense of the term) is perceived at a similarly-high level, both in the sphere of science and research, and in the social and cultural domains. The number of 300 companies and institutions collaborating with the university says it all.

This publication has been created to help secondary school leavers make a very important, educational decision, which young people have to face. It also aims to show all our present and future partners that AGH UST is one of the best technical universities in Central Europe. What is the current "condition" of AGH UST? Let us look at a few facts: 38,000 students, 4,000 employees, over 600 well-equipped laboratories, several dozen modern buildings located within the area of one campus, 54 fields of study and 200 specializations, over 9,000 beds for students at the AGH UST campus, numerous clubs, sports fields, nearly one hundred special interest groups, over 80% graduates who find employment within three months after leaving university... Let us complement the list by thousands of research tasks conducted every year – they are either part of international research projects, or commissioned by industry. We could enumerate the successes and achievements of our university for a long time, but a better idea is to find out about them in person while visiting us during an Open Day, or entering into collaboration with our scientists and researchers.

Combining rich traditions, a high level of education, modern ways of managing the university, the legendary atmosphere of studying, as well as excellent collaboration with business and industry places our university among the leaders of schools of higher education in Poland. It is also clearly indicated by various rankings, in which the university has been at the forefront for many years. I am sure that our educational and research offer - diverse and adjusted to the contemporary needs of the market - will be interesting for everyone.

Enjoy the reading!

Professor Tadeusz Słomka
Rector of the AGH University of Science and Technology in Krakow
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Authorities of AGH University of Science and Technology in years 2012-2016

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Mission of the university

The AGH University of Science and Technology, established on 20th October, 1919, until 1949 known as the Academy of Mining, founded after long-lasting endeavours which had started in 1782, the date when the Ore Commission was established, has been continuing the traditions of the Academy of Mining in Kielce (1816-1827), inaugurated by Stanisław Staszic. The university, being a technical school, serves science and industry through educating students, the development of academic staff, as well as research and development. The university cherishes its traditions and educates students to be honest and responsible people both at work and as the members of the society, according to its motto:

Labore creata, labori et scientiae servio

From the Statute of AGH UST
History of the university

The history of AGH UST began in 1912, when a group of eminent mining engineers and activists led by Jan Zarański started an initiative to establish the Academy of Mining in Krakow. The endeavours were successful, and in 1913 the Ministry of Public Work in Vienna appointed the Organizing Committee, chaired by Professor Józef Morozewicz. By force of the Supreme Order issued by Emperor Francis Joseph on 31st May, 1913, the Academy of Mining was established in Krakow. World War I prevented the Academy from beginning its activity in 1914. But as soon as the war was over and Poland regained its independence in 1918, the Committee recommenced its work, and on 8th April, 1919, the Polish Government brought the Academy of Mining into being. The Head of the State, Józef Piłsudski, nominated its first professors on 1st May, 1919, and on 20th October, 1919, he inaugurated the Academy of Mining in the hall of the Jagiellonian University. On 15th June, 1923, the cornerstone for the future university building was laid. Two years later, the project of the Academy emblem (to be seen in the AGH UST History Museum) signed B.T. – Bogdan Treter – was created. It is believed that the emblem was approved by the General Assembly of Professors. Soon the school reached a very high educational standard, becoming one of the best European mining schools. Some of the Academy professors achieved results of great importance for science. Since the beginning, the Academy collaborated closely with the Polish industry and economy. The outbreak of World War II stopped the Academy’s activity. Between 1939-1945 the main building was occupied by the German General Government. The Academy’s buildings were devastated and plundered. Thanks to the staff, a part of the library was saved. The Academy acted in conspiracy and the authorities were trying to create a provisional underground teaching base. At the beginning of 1945, the Academy was the only technical school in Poland which was able to operate. It actively supported the post-war development of Polish technical universities. The Academy played a major role in establishing the Technical University in Kraków (the main part was the Polytechnic Faculty of the Academy of Mining until 1954), the Silesian Polytechnic, (23 Academy graduates were professors there), and the Technical University of Częstochowa. The Academy supported the reconstruction of the Technical University in Warsaw, and the organisation of the Technical Universities in Wrocław and Gdańsk. In 1947, the authorities decided to rename the Academy (it was officially approved two years later), and henceforth it has been known as the Academy of Mining and Metallurgy. In 1969, the year of the jubilee, the university, having ten faculties at the time, was given its colours and the name the Stanisław Staszic University of Mining and Metallurgy. Also, the structure based on institutes was created.
Many generations of miners endeavoured to establish a mining university in Poland. Yet, their efforts were not successful until 90 years ago, when the Mining Academy was established in Krakow. The new university continued the traditions of the Academy of Mining in Kielce (the Mining Academic School), established by Stanislaw Staszic in 1816, whose programme was partly modelled after the Freiberg Mining Academy.
About the university

AGH UST is one of the best and most renowned modern Polish universities. For many years it has been ranked at the top of the list of institutions of higher education. AGH UST is a leading Polish university in modern technologies, and belongs to a group of prestigious international educational centres. Our long and rich traditions – the university is almost 90 years old – also influences our popularity. Throughout the years, the university has educated engineers needed by the Polish industry. Our school has other advantages, too, namely, an ideal location in the most beautiful Polish city – Krakow, its own campus with excellent facilities for 9,000 students, conveniently located for the university buildings, modern research base with laboratories and the latest equipment, collaboration with other universities in Poland and abroad, facilities for people with disabilities, and an excellent atmosphere of studying, which cannot be found anywhere else. Students receive education in 54 disciplines and more than 200 specializations. The variety of disciplines offered is worth noting. Apart from traditional faculties, closely connected with mining and metallurgy, we have faculties dealing with computer science, telecommunications, automatics, robotics, new materials, technical physics, applied mathematics, as well as management and social sciences. New disciplines include Culture Studies, Geophysics, Oil and Gas Engineering, Medical Physics, Acoustic Engineering. New specializations are offered within the domain of traditional disciplines, for example, Mathematics for Finance at the Faculty of Applied Mathematics. Presently, the university employs more than 2,000 research workers, of which about 500 have the status of independent researchers. More than 500 research projects (both domestic and foreign) are currently being conducted. AGH UST also participates in many educational projects. We have signed 200 general agreements with foreign partners in Europe, both Americas, and Asia. Every year, 1,400 foreign educational trips take place. At home, we have signed collaboration agreements with about 300 industrial companies, including large multinational corporations. The agreements concern scientific, research and educational collaboration. Our diploma really opens the doors of the best firms and companies, both in Poland and abroad. Our graduates fully deserve the good opinion of their employers.

At 16 faculties there are over 34,000 students at full-time and part-time courses. The university also runs doctoral studies (nearly 800 students) and postgraduate programmes (nearly 3,000 students).
The AGH University of Science and Technology is a special place of unique atmosphere and 90 years of colourful history; it is a place of ideas, successes and friendships for life.
AGH UST graduates

The university has so far educated 150,000 engineers and Masters of Engineering, providing our economy with competent staff. Education acquired at our university is highly valued by employers both in Poland and abroad. The brilliant careers of numerous AGH UST graduates - who hold all kinds of public positions, including, in many cases, top-level positions - constitute a highly visible, practical proof of the quality and usefulness of the knowledge that they acquired at AGH UST. Graduates of the AGH University of Science and Technology possess high qualifications that enable them to take up jobs in many branches of industry, and also to successfully hold positions at any level of central administration. During their studies, they also acquire knowledge and skills that they may later use to establish businesses of their own. Among the alumni of the university there are presidents of large international corporations, individuals holding public positions (ministers, local authorities, mayors), and also some well-known artists, including Wiesław Ochman – the most famous Polish tenor. Ochman is proud of his education and knowledge gained at AGH UST which, he says, taught him discipline and helped him to solve technical problems with general household appliances.

Many of our graduates fulfil their aims and ambitions in large corporations and companies, both in Poland and around the world. Above all, they value education acquired at the university, and the practical aspects of knowledge taught here. Many university teachers have rich work experience in industrial plants. Students have an opportunity to serve professional apprenticeships and internships in a number of recognised companies, which helps them to get a good start to their professional life. Many of them start working during their studies. Graduates of the university appreciate their time spent here. They stress the open and friendly attitude of the academic and administrative personnel, a very good social side and, above all, the unique atmosphere of studying, which is supplemented by various forms of recreation, such as balls, hiking tours, local sports competitions, tournaments, and others. It is here, at our university, where life-long friendships are born. AGH UST graduates are also known for their kindness; they provide support to one another in all sorts of life situations. They also support their former university in various ways, most often by entering into collaboration as representatives of large companies, which mainly consists of the implementation of new technologies, as well as organising student apprenticeships and funding scholarships for the most talented young people.
According to the employers, in the application documents, AGH UST graduates “make a fair declaration, though on many occasions they undervalue their qualifications compared to the graduates of other universities; they successfully pass knowledge tests and possess high practical skills; they are flexible and have no difficulty in adjusting to changes; they are highly intelligent, analytical, and learn quickly; they are independent, cope well with stress, and can work well under pressure; they are not excessively demanding, but get involved quickly and appreciate the stability of employment; they are creative and show initiative, and in contact with their colleagues they show really good manners”.
AGH UST graduates on labour market

A final effect of an educational process for every university graduate is getting employment in line with their training. Some professions are intensely sought on the labour market, some are not so much in demand. A reason for this is a divergence between the demand and supply with respect to education and qualifications in particular professions.

The degree of competitiveness of graduates on the labour market is therefore a natural verification of the system of education. An indispensable element of its effectiveness is the forecasting ability and a flexible form of programmes of studies which takes into account three elements: the profile and scope of education, students' expectations, and employers' demands.

The system which has been worked out and initiated by the AGH University of Science and Technology allows to adjust the educational programme to the actual needs of the economy while maintaining professional standards. It fulfils all the above criteria, and is a resultant of organisational, educational, market, and economic structures. One of the methods encompasses forecasting the demand for particular specialists and professions several years ahead, thanks to which the educational policy of the university can react in a flexible way, and according to the changes of the market. The university hosts the Assembly and Community Council composed of the representatives of universities and several dozen key enterprises. Within the framework of the structures mentioned above, it is planned to create new branches of studies and specializations, as well as to make changes or modifications to the existing programmes of studies. Furthermore, in collaboration with industry, AGH UST has signed nearly 300 agreements with enterprises, which ensures a smooth flow of students and graduates to the labour market (scholarships, internships, professional training, positions in companies). Regular meetings with the representatives of industry have become a tradition; they serve to exchange information and suggestions, as well as to verify the educational process in relation to the contemporary needs of employers.

The university also takes soundings, as well as runs quality and quantity checks on employment prospects in the context of the most required professional qualifications, knowledge of foreign languages, and other skills appearing on the demand list. In the 2010 survey, the questionnaire was answered by 267 employers from all over Poland, and the selection of companies represented all specialization and branches of studies at AGH UST.

For employers, the main criterion for accepting graduates of technical and exact sciences specializations is education and training in a particular field (94.8%). In the employers' opinion, flexibility and adaptation to changes is more possible if the candidate's base, i.e. their starting knowledge, is more solid (opinion based on the survey). The second factor is the knowledge of foreign languages (90.6%), and the third indicator is motivation (77.5%). In the recruitment process of graduates of technical universities, the employers broaden the list of expectations, and the candidate's required profile is a resultant of most of the enumerated requirements.

In the recruitment process, the candidates' approach, motivation and preferences are also very important. The analysis shows that while choosing the place of work or a position in a company, AGH UST graduates'
priority is not the salary, which is of secondary importance (49.8% of responses), but for 63.8% of the respondents the most important aspect is the opportunity for professional development. This is a factor which marks high ambitions of AGH UST graduates, and additionally, determines them to look for a job in line with received education.

Graduates who completed their studies in 2011 have been employed by over 700 companies located all over Poland, with majority getting employment in the Małopolska region (68.2%), of which 52.3% in Krakow. 3.7% took up employment abroad.

An unexpectedly rapid development of new technologies has created a situation where graduates of technical specializations belong to a group which has the best chance for development and employment in the forthcoming decades. However, the unpredictability of market conditions and high expectations towards educating students at technical specializations set additional requirements for this area of knowledge in the process of implementing educational programmes.

The AGH UST’s monitoring of the labour market and professional careers of university graduates confirms that the educational process of the university is moving in the right direction, and that the starting capital of an AGH UST graduate is compatible with the market demands and creates a high probability of employment, and in consequence, a good chance for adequate professional development. An indispensable condition for promotion is flexibility, adaptability to change, and a continuous improvement of qualifications based on thorough knowledge; as academic rankings clearly show, this can be ensured by the educational systems of leading technical universities.

The survey took into account the recruitment plans of companies up to the year 2013, which encompass the employment of AGH UST graduates representing all specializations and branches of studies.

Both for employers (60.7%) and graduates (61.1%), a legitimate quality is the prestige and reputation of the university. For employers, it is a high degree of probability that AGH UST graduates possess knowledge at an adequately high level. For graduates, it is positive self-evaluation, a feeling of security on the labour market, as well as pride and personal satisfaction which follows from the fact of holding an AGH UST diploma.

Another method of evaluating and verifying the educational programme with respect to market demands is monitoring the professional careers of university graduates. Monitoring professional careers of the graduates of the AGH University of Science and Technology for many years was very selective. Depending on the faculty, it was conducted at different time intervals, and with the use of different methods. In 2008, the university began standardizing the process of monitoring professional careers of full-time undergraduate and postgraduate students.

In a survey encompassing full-time postgraduate students, class of 2011, the time interval counted from the moment of finishing studies to completing questionnaires by the graduates did not exceed six months. The survey was completed by 2,338 graduates, which constituted 83.4% of the target group.

85% of the graduates took up a job within six months after graduating from the university, or they continued to further studies. 75.9% were offered a contract of employment.

The main reason for employing graduates of technical and exact sciences specializations was the completed field of studies (67.8%), followed by knowledge gained during the course of studies (46.7%), and candidates’ motivation (46.4%).

Among the working respondents, 44.5% received more than one offer of employment, and 23.4% did not have to look for a job as employment was offered to them.
The consistency between employment and education (85.2%) is a result which clearly shows the educational potential of the university; it is a measurement of the quality of education. First and foremost, it is the employment being in line with the completed specialization which is the most important indicator proving that the educational programme of the university is well adjusted to the demands of the market.
Education at AGH UST is closely connected with research. We actively involve students to take part in current research projects. We believe in innovativeness and cooperation in the area of the exchange of technologies; we collaborate with renowned Polish and international companies, which highly appreciate our graduates.
Studies at AGH UST

Today, AGH UST educates 38,000 students. Due to our rich educational offer (54 different fields of study, and over 200 specializations) the number of candidates applying to our university increases every year in spite of the current demographic decline. There are, however, many more reasons: huge academic potential, prestige among employers, close relations with the industry and business world, apprenticeship and internship opportunities, a modern educational and academic base, as well as attractive social conditions and opportunities for developing interests (student special interest groups, student organizations, the Academic Sports Association). Apart from the above, one of the fundamental factors encouraging young people to begin studies at AGH UST is the legendary and unique atmosphere of the university campus. Both the university authorities and teachers treat their students as partners, and the AGH UST authorities make multimillion investments in infrastructure (including the construction of a modern swimming pool and sports halls); consequently, students of the largest technical university in Poland constitute an extremely integrated and committed environment.

It cannot go unnoticed that, in accordance with its mission, the university places a great emphasis on the quality of education. Educating the elite of our nation’s engineers is a great challenge, and can be met only by applying maximum knowledge and a fully professional attitude to the educational process. Thanks to the optimum utilization of subsidies from the EU Structural Funds, and permanent cooperation with global economic giants, we have the necessary funds and the intellectual potential required to improve the quality of education at AGH UST. New branches of studies, such as Computational Engineering, Mechanical and Materials Engineering, Chemistry of Building Materials, and Ecological Sources of Energy, in combination with unique faculties (Faculty of Foundry Engineering, Faculty of Materials Science and Ceramics, Faculty of Drilling, Oil and Gas) provide an offer from which every secondary school graduate can choose a prospective field of study for themselves. Whether they decide to study Applied Mathematics, Environmental Engineering, Technical Physics, or Automatics and Robotics, they can be sure of one thing – it will be the first-class education. One of the key mottos of our university is: “AGH UST – the university that gets you a job”; it is clearly illustrated by the contemporary market reality. The fact is that students and graduates of the AGH University of Science of Technology are often competed for by employers who offer them excellent conditions of employment. A number of “business giants”, such as Motorola, Google, Microsoft, Delphi, PGNiG, Accenture, Lotos, Siemens, IBM, RWE, and KGHM, very often offer attractive internships to our students in their 3rd or 4th year of studies. AGH UST is a strong brand, with which its staff, students and graduates are keen to identify. Our graduates are recognised as professionals both in Poland and around the world.

The AGH University of Science and Technology is one of the best technical universities in Poland, educating engineers who are so much in demand on the labour market. The knowledge offered by our academic staff is supported by the latest research, which subsequently is applied in different branches of industry. The specialist knowledge which can be gained during the course of studies requires a solid base, in the first place a good understanding of the so-called “basic subjects”, i.e. mathematics, physics, and chemistry. This is a reason why for many years AGH UST has been undertaking steps aiming at the improvement of the knowledge of these subjects, both by candidates for the university, as well as current university students (for example, the “zero” year, preparatory courses, remedial courses).
Our ambition is providing attractive and modern education. We have been improving the quality of education for many years. One of the elements of the AGH UST employees’ appraisal system are anonymous questionnaires completed by students. All activities which aim at maintaining high standards of the educational process at AGH UST are coordinated by the University Board for Quality of Education. In the academic year 2011/2012, the University Board for Quality of Education's works aimed mainly at activities supporting the University System of Ensuring Quality of Education and, in the first place, were connected with the implementation of the National Qualifications Framework at the AGH University of Science and Technology, along with adapting the Catalogue of Courses to the contemporary requirements connected with the National Qualifications Framework. The new, developed description of the educational process refers to the learning outcomes, and allows to compare diploma degrees obtained at AGH UST with ones obtained at other European universities.

A high evaluation of the educational activity of the university is reflected in the official reports of the Polish Accreditation Committee. It is worth emphasizing that in the course of the recent years all the fields of studies at AGH UST have received positive evaluation of the Polish Accreditation Committee, and some have also been distinguished.

The university enables its students to gain education at the highest level, acknowledged all over the world. This aim is fulfilled by the following steps: intensified learning of foreign languages, integrated studies with a double diploma (of AGH UST and a university abroad), a possibility of taking part in practical training in another country, individual tailoring of syllabuses, and the continuous updating of the contents and methodology of the syllabuses (for instance, virtual education), as well as an improved learning / teaching base and social facilities. Furthermore, during the course of studies at AGH UST students can also obtain teaching qualifications.

Caring about the competitiveness of our educational offer on the international educational market we develop teaching in English. In the recent years we have increased the number of courses and fields of study at which education is provided in English. Currently, education in English is offered at 21 fields of study (1st and 2nd cycle of studies).

Moreover, the university hosts the University Base of Courses in English. The base encompasses several dozen courses which are available to all AGH UST students each semester. The classes are held exclusively in English, and students can agree with the Deans of their faculties to include the courses in their plans of studies. The programme is also intended as an educational offer for all students coming to AGH UST within the framework of various international exchanges programmes.

The AGH University of Science and Technology offers studies at three levels (cycles) of education:
- 1st cycle (6-7 semesters) leads to awarding a bachelor’s degree,
- 2nd cycle (3-4 semesters) leads to awarding a master’s degree,
- 3rd cycle – doctoral studies – prepares students to teach and conduct independent research, and leads to awarding a doctor’s degree.
Educational offer at 1\textsuperscript{st} and 2\textsuperscript{nd} cycle of studies

Faculty of Mining and Geoengineering
- Civil Engineering
- Mining and Geology
- Environmental Engineering *
- Management and Production Engineering

Faculty of Metals Engineering and Industrial Computer Science
- Education in Technology and Informatics
- Materials Engineering
- Applied Computer Science
- Metallurgy

Faculty of Electrical Engineering, Automatics, Computer Science and Biomedical Engineering
- Automatic Control and Robotics
- Electrical Engineering
- Applied Computer Science
- Biomedical Engineering

Faculty of Computer Science, Electronics and Telecommunications
- Electronics and Telecommunications
- Electronics and Telecommunications (in English)
- Computer Science
- Teleinformatics

Faculty of Mechanical Engineering and Robotics
- Automatic Control and Robotics
- Acoustic Engineering
- Mechanical and Materials Engineering
- Mechanical Engineering
- Mechatronics
- Mechatronics (in English)

Faculty of Geology, Geophysics and Environmental Protection
- Geophysics
- Mining and Geology
- Applied Computer Science
- Environmental Engineering *
- Environmental Protection *
- Tourism and Recreation
- Ecological Sources of Energy
- * commissioned field of study – 2nd cycle of studies

Faculty of Mining Surveying and Environmental Engineering
- Geodesy, Surveying and Cartography
- Environmental Engineering *

Faculty of Materials Science and Ceramics
- Ceramics
- Chemistry of Building Materials: inter-university field of studies
- Materials Engineering
- Chemical Technology

Faculty of Foundry Engineering
- Metallurgy
- Virtotechnology

Faculty of Non-Ferrous Metals
- Materials Engineering
- Metallurgy
- Management and Production Engineering

Faculty of Drilling, Oil and Gas
- Mining and Geology
- Oil and Gas Engineering

Faculty of Energy and Fuels
- Power Engineering
- Chemical Technology

Faculty of Management
- Informatics and Econometrics
- Management
- Management and Production Engineering

Faculty of Physics and Applied Computer Science
- Medical Physics *
- Technical Physics *
- Applied Computer Science

Faculty of Applied Mathematics
- Mathematics

Faculty of Humanities
- Cultural Studies
- Sociology

Computational Engineering – field of study offered by the Faculty of Metals Engineering and Industrial Computer Science and the Faculty of Physics and Applied Computer Science.
Doctoral studies
(3rd cycle)

We try to develop our educational offer in all forms and at all levels. Apart from the 1st and 2nd cycle of studies we also develop doctoral studies (3rd cycle).

14 faculties of the AGH University of Science and Technology are entitled to confer the doctor’s degree in:

- technical sciences
- chemical sciences
- physical sciences
- Earth sciences
- economic sciences
- mathematical sciences

in the following disciplines: automatic control and robotics, biocybernetics and biomedical engineering, civil engineering, construction and operation of machines, chemistry, electronics, electrical engineering, power engineering, physics, geology, geophysics, mining and engineering geology, geodesy and cartography, computer science, materials engineering, production engineering, environmental engineering, mathematics, mechanical engineering, metallurgy, management sciences, chemical technology, and telecommunications.

We think that doctoral studies are a very important element on the path to the development of university staff, and we consequently develop it. In the recent years, new international doctoral studies have been launched. Since 2009, the Faculty of Physics and Applied Computer Science has offered “Interdisciplinary Doctoral Studies – Advanced Materials for New Technologies and Power Engineering of the Future”.

In 2011, the Faculty of Energy and Fuels launched an educational programme at the 3rd cycle of studies in the disciplines of chemical technology and power engineering, both being connected with the basic activity area of KIC InnoEnergy, which is Clean Coal Technology.

Details of the educational offer and admission procedures can be found on the website:

- www.rekrutacja.agh.edu.pl
Postgraduate programmes

AGH UST offers more than 90 postgraduate courses aimed at both engineers (ceramics, electrical engineering, power engineering, gas engineering, geodesy, geophysics, mining, computer science, telecommunications, metallurgy, robotics, and telecommunication, biomedical and financial engineering), as well as people who are interested in obtaining a new specialization in computer science and computer graphics, environmental protection, public procurement, work safety, estate evaluation and management, human resources management, company management, quality management, EU funds management, and education management.

Lifelong education

Mobility is a characteristic feature of our times. During our professional lives we often change the place of work and have to gain new qualifications. The AGH University of Science and Technology in Krakow has a rich offer of additional training courses. In total, each year we offer over 100 supplementary training programmes. The target audience is varied. AGH UST units also offer specialist courses commissioned by production plants for their employees.

The AGH UST’s offer of these courses has no age restrictions. Implementing the idea of lifelong education we want to reach the highest number of social groups. For many years, AGH UST has hosted Open University (formerly, Technical Open University). A characteristic feature of Open University is its interdisciplinary character, which follows from the first Polish Open Seminar organised at AGH UST by professor Walery Goetel, the participation of representatives of all age groups (not only elderly people), as well as lecturers from all kinds of schools of higher education all over Poland, institutes of the Polish Academy of Sciences, and other governmental departments. In particular, the subject area of lectures relates to the advances in physics, computer science, the humanisation of technology, the optimum use of environmental resources, health-promoting activities, and the popularisation of culture. Lectures are combined with discussions and create an opportunity not only to update and broaden knowledge, but also make the representatives of different age groups think about the integration of sciences for the purpose of improving both the condition of the environment and the quality of life, as well as the contemporary problems of the 21st century and culture.

The AGH University of Science and Technology in Krakow constantly broadens its educational offer in the area of specialist courses for people who want to gain knowledge and skills in modern, constantly developing branches of science. In 2012, a new initiative was launched: "AGH UST – University for Active People". It encompasses the creation of new courses whose target audience are, not exclusively, active people over 50 years of age. The aim of the classes is to create an opportunity for lifelong education, as well as to give students a chance to learn and master various skills.
Educational offer of 1st and 2nd cycle programmes in English (disciplines and specializations)

First-cycle programmes (bachelor’s degree)
- Electronics and Telecommunications
- Mechatronics

Second-cycle programmes (master’s degree)
- Applied Computer Science: Computer Methods in Science and Technology
- Biomedical Engineering: Emerging Health Care Technologies
- Chemical Technology: Clean Coal Technologies
- Chemical Technology: Sustainable Fuels Economy
- Electrical Engineering: Computer Engineering in Electrical Systems (CEES)
- Electrical Engineering: Smart Grids Technology Platform
- Electronics and Telecommunications: Sensors and Microsystems
- Electronics and Telecommunications: Computer Network Equipment and Systems
- Electronics and Telecommunications: Networks and Services
- Energy Technology: Sustainable Energy Development
- Geophysics: Applied Geophysics
- Management and Production Engineering: Logistics Management
- Materials Engineering: Functional Materials
- Mathematics: Financial Mathematics
- Mathematics: Mathematics in Computer Science
- Mathematics: Mathematics in Management
- Mechatronics: Mechatronic Design
- Mining and Geology: Economic Geology
- Mining and Geology: Mining Engineering

Centre for International Students
The Centre for International Students was established in 2011 with staff from the Department of International Relations and the Department of Education in order to provide international students with help and assistance they may require.
We pride ourselves on providing services of the highest standard, from answering questions about application procedures to helping international students with everyday matters such as legalizing their stay, obtaining scholarships, and others.
We help both full-time international students, as well as exchange students.

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The research activity of the AGH University of Science and Technology comprises eight subject areas:

- Information Technologies
- New Materials and Technologies
- The Environment and Climatic Changes
- Energy and its Resources
- Mining
- Electrical and Mechanical Engineering
- Exact and Earth Sciences
- Social-Economic Sciences and Humanities.

A detailed list of research subject areas conducted at AGH UST can be found on the website: www.agh.edu.pl/pl/badania-naukowe
Research

The AGH University of Science and Technology in Krakow is a university of modern technologies with great prospects for the future. A varied and attractive educational offer and innovative research in the fields strategic for the national economy are our true asset.

A wide scope of research conducted at the university is a result of the contemporary structure which has been shaped over the last 90 years; the development of the university units was connected with the dynamic development of the country’s economy. Invariably, the AGH UST’s ambition has been getting ahead of the present time, a result of which are many innovative solutions in different areas. Today, the university comprises 16 faculties. Their research activity is connected with traditional, yet constantly developing branches of industry and economy (mining, drilling, metallurgy…), and with particular fields of Earth and technical sciences (geology, geodesy, electrical engineering…). Well represented are also faculties conducting research in dynamically-developing disciplines such as computer science, telecommunications, and biomedical engineering, as well as faculties connected with the basic sciences (mathematics, physics, geophysics, and sociology).

The development of modern and innovative research would not be possible without high-class specialists in particular branches of science. The university has a large group of independent researchers and scientists: nearly 300 holding the title of professor, and over 200 with post-doctoral qualifications. Excellent staff is an asset of our university. It is worth emphasizing that the results of research conducted by our scientists are frequently applied in industrial and production plants. An important indicator of modern science is its inter-disciplinarity, hence research teams are more and more often composed of specialists of different domains of knowledge.

Support for the employees’ scientific activity is modern equipment, which allows to conduct research at the world level. For years, the university has been regularly developing and modernising the scientific research base. In 2012, a new, modern building was completed and commissioned; it is equipped with unique technological and measurement devices, including apparatus working in the conditions of high cleanliness, in the so-called “clean room”, with equipment designed for nanotechnology and material nonodiagnostics. The AGH UST Academic Centre of Materials and Nanotechnology, which is the user of the new building, will create a possibility to conduct research into building and functional materials, as well as nanomaterials at the world level on the basis of collaboration with leading world laboratories, and also in cooperation with scientific research institutions and industrial units representing "high technologies" in Poland. The Centre will also create space for doctoral projects, post-doctoral professional experience, and post-doctoral qualification dissertations at a very high level while ensuring the education and renewal of the research staff of our university and the region in the fields of nanotechnology, engineering, and materials physics.

Since 2011, the university has been equipped with one of the world’s three most powerful microscopes – the latest generation analytical electron microscope (S)TEM FEI Titan Cubed G-2 60-300. The device is located at the laboratory of the AGH UST International Centre of Electron Microscopy at the Faculty of Metals Engineering and Industrial Computer Science. Titan Cubed is one of the most important technological achievements in the field of microanalysis at the atomic scale.
The development of science at the highest, world level is an element of the mission of the university, but also a duty of a scientific research unit. It allows the active creation of new solutions leading to a more comprehensive understanding of the world, and the development of innovative solutions that will improve our lives. It also gives space to the development of young talented people, both students and doctoral students, and in consequence, it allows to educate top-level scientists and researchers, as well as specialists who will be able to use the knowledge in their everyday, professional careers. Numerous awards, for example, a distinction in the competition organised by the weekly Polityka “Stay with us”, or the most successful for AGH UST young scientists and researchers (in terms of the number of laureates) competition organised by the Ministry of Science and Higher Education “Top 500 Innovators” indicate that our students are capable of making use of their potential, which in the future can bring interesting developments and discoveries on the national and global scale.

The research activity of university scientists and employees is recognised on the international arena. A significant success of AGH UST has been its incorporation, as the only Polish university, into the Knowledge and Innovation Community “InnoEnergy” of the European Institute of Innovation and Technology (EIT). In our Polish centre named CC Poland Plus-Krakow, the main subject area is “Clean Coal Technologies”. Thanks to being part of the Innovation Community we can develop research into the innovative technologies of the production of clean energy obtained from fossils, on which Polish power engineering is based.

AGH UST has also been an initiator of establishing the Małopolska-Podkarpacie Cluster of Clean Energy, Cluster of Information Technologies, and the Centre for Advanced Technologies – Małopolska Centre of Materials and Technologies “Akcent”. The university also hosts Centres for Excellence, which aim at conducting research in the fields which have been recognised as fundamental for the Polish economy: Centre of New Computer Technologies for Metallurgy and Materials Science “CeKoMat”, AGH UST Academic Computer Centre CYFRONET, Krakow Centre for Telemedicine and Preventive Medicine, Centre of e-Learning “CeL”, Systems and Tools for Processing and Delivering Knowledge.

Research works at the university are supported by the Main Library, which also encompasses the network of several faculty libraries with a wide range of textbooks and journals made available in the electronic form within the University Computer Network. AGH UST also hosts the AGH University of Science and Technology Press. University employees present the results of their research works and projects by organising and participating in a few dozen international and Polish conferences and science symposia every year.

Building a strong scientific position is the essence of the existence and continuity of the university. A wide scope of research projects which often go beyond the usual pattern guarantees the development of young, ambitious and highly-qualified staff, which will determine not only the future of our university, but also our country.

In July 2012, the consortium managed by the AGH UST Faculty of Physics and Applied Computer Science was awarded the status of the National Leading Research Centre KNOW in the field of physical sciences. KNOW is the first Polish programme of supporting the best science and research institutions. The KNOW status guarantees special financing in the years 2012-2017. Every year, each KNOW will receive 10 million PLN for strengthening the scientific and research potential, development of research staff, creation of good conditions for conducting research, building a strong and recognisable brand, as well as better salaries for researchers, and the employment of scientists and researchers from other countries.
Transfer of technologies

AGH UST is an important centre for the development and transfer of innovative technologies. In order to create mechanisms facilitating and intensifying the transfer of innovative technologies from AGH UST to entrepreneurs and other external institutions, the AGH UST Centre for Transfer of Technologies has been established. The Centre for Transfer of Technologies deals with comprehensive issues connected with the transfer of technologies, including:

- promotion of AGH UST research, technological and specialist offer for entrepreneurs and investors
- selling intellectual property rights (patents, licences, know-how) and making them available in other forms
- protecting intellectual property rights
- obtaining funds supporting the transfer of technologies
- information, advice and training related to the transfer of technologies.

The aim of the AGH UST Centre for Transfer of Technologies is supporting the processes of the commercialisation and transfer of innovative technologies and knowledge. The Centre operates in the domains of the marketing of science in business environment, protecting intellectual property, as well as servicing and financing the transfer of technologies. It co-operates with the AGH UST scientific environment and the entrepreneurial environment regardless of the scale of their activity, as well as with member organisations for entrepreneurs.

The mutual awareness of needs and possibilities, as well as the trust of the scientific and entrepreneurial environments is a key factor for the success of the transfer of technologies, hence increasing the innovativeness and competitiveness of the country’s economy. Increasing this awareness and trust is regarded by the AGH UST Centre for Transfer of Technologies as one of the main aims of its activity.

An important role in the transfer of technologies is also played by the Krakow Centre of Innovative Technologies INNOAGH, established in April 2010, with 100% share capital owned by the AGH University of Science and Technology. The main, though by no means exclusive task of INNOAGH is the acquisition of university shares in new companies, the so-called “spin-off companies”, established on the basis of the results of research projects, and the general knowledge coming from scientific research units. Furthermore, the aim of the company is to provide advice and support to research staff who are interested in establishing innovative companies based on intellectual property originating at the university.

In the years 2008-2012, the university obtained 211 patents and submitted 398 designs to the Polish Patent Office.
Since 2011 AGH UST has hosted the AGH-UNESCO Centre of International Promotion of Technology and Education, which is the first institution in Poland acting under the auspices of UNESCO. The Centre inspires, coordinates and supports the exchange and transfer of knowledge and engineering practice, as well as the university-level of education in the field of technical sciences in the international dimension. The activity of the AGH-UNESCO Centre is in line with the priorities of both UNESCO and AGH UST, and is addressed to partners all over the world.
National and international collaboration

In Poland, the AGH University of Science and Technology collaborates closely with other universities, economic units, and governmental and local administrative bodies. AGH UST is interested in joint organizational initiatives such as research centres, technology development centres, inter-university laboratories, and others, and strives to develop inter-university studies, including new interdisciplinary fields of study, as well as international doctoral studies. International cooperation plays a very important role in academic research. The AGH University of Science and Technology has signed over 400 direct collaboration agreements with foreign partners in Europe, North and South America, and Asia. They aim at multidimensional cooperation in the fields of education and academic research. Each year, in collaboration with foreign partners, the university conducts approximately 200 research projects, including those covered by the EU Framework Programmes, Interreg, COST, EU-REKA, SAVE, ALTENER, CULTURE 2000, DESY, and CERN. Alongside these projects, AGH UST also carries out projects approved by the Ministry of Science and Higher Education within the framework of intergovernmental agreements. AGH UST also participates in many educational projects supported by programmes such as Erasmus LLP, Leonardo da Vinci, CEEPUS, TEMPUS, the Visegrad Fund, eTEN, and the European Social Fund. Currently, the university has approximately 200 agreements within the framework of the Erasmus LLP programme, which include the exchange of students and lecturers. International collaboration is treated as one of the most important elements of the educational and academic development of the university, as well as the maintenance and enhancement of its international prestige. In addition, AGH UST is a member of many international organisations. As a university of practical character, AGH UST has always focused on collaboration with business and industry. It has signed partnership agreements with approximately 300 industrial plants, including large international corporations. The subject matter of these agreements is academic, research and educational cooperation, and the aim is to make extensive use of mutual opportunities in order to actively participate in the development of the nation through the creation of new areas of operation. The basis of regional cooperation is the activities carried out together with the authorities of the Malopolska region. However, in order to retain its supra-regional profile, AGH UST also cooperates closely with other regions of the country. This collaboration includes joint activities with industrial companies operating in given regions, and cooperation with local education departments and secondary schools with the aim of improving the level of education, and promoting the university. AGH UST has introduced the programme "Schools under AGH UST Patronage", and plans to strengthen its collaboration with industry with regard to graduate employment, which is coordinated by the AGH UST Career Centre.
The university wants to educate students in solid and modern ways. A proof that our graduates possess a high level of knowledge is the first place in the ranking “Forge of Chairmen”, published by the daily Rzeczpospolita. According to the survey conducted by the newspaper, a third of all chairmen of the 330 companies included in the ranking had graduated from the AGH University of Science and Technology. It is worth noting that AGH UST has been placed among the leaders for the fourth time in a row.
Achievements

The AGH University of Science and Technology in Krakow is a university which enjoys excellent reputation both in Poland and abroad. It has frequently been honoured. Our employees and students successfully take part in prestigious competitions in which they are highly ranked and receive numerous distinctions. Thanks to these multi-direction activities and maintaining high standards of education, AGH UST for many years has been at the top of academic rankings in Poland and abroad, successfully competing with the best universities. The recognition which is enjoyed by the university allows us to enter into collaboration with Polish and international universities, as well as research units and industrial plants.

Speaking about AGH UST employees' achievements, it is worth emphasizing that among them there are ones who have received many honours and distinctions:

- Person of Merit for Polish Culture,
- Pro Labore Securo,
- Joseph LoCicero Award for Exemplary Service for Publications.

The talent of young scientists and students of the university is reflected by gold medals won at the competitions of mobile robots in Vienna, two titles of "Student Nobel" for a student of the Faculty of Electrical Engineering, Automatics, Computer Science and Electronics (in four editions of the competition), distinctions in the competitions organised by the weekly Polityka "Stay with us", professional experience opportunities for 13 researchers and doctoral students at Stanford University awarded in the competition "Top 500 Innovators", organised by the Ministry of Science and Higher Education, and many others. AGH UST students are also successful on the sporting arena. Putting their sporting passions into practice at various units of the AGH UST Academic Sports Association, they achieve excellent results in individual and team, national and international competitions.

In the recent years, a significant success of AGH UST has been its incorporation, as the only Polish university, into the Knowledge and Innovation Community “InnoEnergy” of the European Institute of Innovation and Technology. The AGH University of Science and Technology co-ordinates works of the Polish scientific-research consortium called CC Poland Plus. This long-lasting research project worth 120-150 million euro annually deals with research into the latest technologies and is the largest research project of the European Union. The consortium, whose works are co-ordinated by AGH UST, aims at working out new solutions in the field of the so-called "clean coal technologies".

In 2012, the Marian Smoluchowski Krakow Research Consortium "Matter-Energy-Future", co-ordinated by the AGH UST Faculty of Physics and Applied Computer Science, was awarded the status of one of the first six Leading National Research Centres KNOW by the Ministry of Science and Higher Education. Among others, the KNOW status guarantees special financing in the years 2012-2017 for strengthening the scientific and research potential, development of research staff, creation of good conditions for conducting research, as well as building a strong and recognisable brand.

A proof of how much the AGH University of Science and Technology is appreciated in the world has been the fact that the university has been accepted as an associate member of T.I.M.E. — the Association of Top Industrial Managers for Europe. T.I.M.E. is a programme of bicultural education at the completion of which students obtain...
a double diploma. At the moment, the members of the Association are 51 best European technical universities from 19 countries, and four non-European universities – two from Japan, and one from China and Brazil.

For years, AGH UST has been ranked in the lead of state and technical universities in the rankings of schools of higher education organised by the Educational Foundation of the monthly Perspektywy and the daily Rzeczpospolita. The ranking is regarded as the most important evaluation of Polish universities. Institutions of higher education are assessed by the Rankings Jury in the following categories: prestige, innovativeness, studying conditions, internationalisation, and the scientific strength of the unit. In addition to the 6th position in the general ranking, and the 3rd position in the ranking of the best technical universities, AGH UST holds the position of the best Polish university educating students in the field of Information Technologies.

In 2012, AGH UST advanced considerably in the prestigious Webometrics Ranking of World Universities! In comparison to February 2011, AGH UST has advanced by 248 positions – from 549th place to 301st, taking the lead among Polish universities.

The AGH University of Science and Technology wants to be friendly to disabled students. Our efforts in this field have been recognised and highly evaluated in the report entitled "Are Polish universities friendly to people with hearing difficulties?" The survey was organised by the portal Słuchowisko.net and Oticon Polska – a producer of hearing aids. Our university was ranked the highest in all three categories taken into account: the presence of induction loops, the presence of portable FM devices in the university infrastructure, and the availability of university staff trained to use sign language. The adaptation of student houses infrastructure for the needs of students with hearing difficulties was also appreciated.

In the course of the recent years our university has completed a number of investments whose aim, in the first place, was the development of the teaching base for the purpose of the improvement of studying conditions. In the sixth edition of a competition organised by the Krakow Municipal Office and the daily Gazeta Krakowska, in which the citizens of Krakow choose the best building investments of the city, the AGH UST Centre of Computer Science won in the category "Public Architecture". It is not the only distinction for the building, which a few months before was awarded the title "Construction 2011" by the Polish Association of Building Engineers and Technicians. The university has also been awarded the Polish National Certificate "Reliable Institution", edition 2012, which confirms the reliability and credibility of AGH UST as a university offering services of the highest quality. The certificate is awarded to institutions and units which have a substantial influence on the social, economic and cultural development of its surroundings.

Below there only some of the most important successes of our employees and students:

- The Ministry of Science and Higher Education has granted financing to young scientists and researches within the framework of the programme "Juventus Plus". In 2011, the amount of 70 million PLN was divided between over 300 researchers. Six of them are AGH UST scientists.
- The International Film Festival Etiuda&Anima, organised in Krakow since 1994 and launched thanks to an initiative of Bogustaw Zmudziński, PhD, of the AGH UST Faculty of Humanities, has been recognized by the Polish Film Institute. A great artistic value of Etiuda&Anima has been appreciated, and the festival was nominated for an award in the category "International film event of 2011".
- In the fourth edition of the competition for female inventors "Inventor of 2011", professor Anna Ślósarczyk of the AGH University of Science and Technology was distinguished. Professor Ślósarczyk, who works at the Department of Technology of Ceramics and Refractories (Faculty of Materials Science and Ceramics), was
honoured for the development of synthetic, calcium phosphate-based materials capable of replacing bone tissue that has been destroyed due to an injury or illness.

- In 2012, in the Krakow Awards competition “Allianz – Culture, Science, Media”, a prize was awarded to professor Andrzej Jajszczyk, the Director of the National Science Centre, and a researcher at the AGH UST Faculty of Electrical Engineering, Automatics, Computer Science and Electronics (currently, Faculty of Computer Science, Electronics and Telecommunications).

- In 2012, professor Antoni Tajduś (AGH UST Rector in the years 2005-2012), was awarded a Silver Honorary Medal for his services to the Małopolska Voivodeship.

- Students of the Special Interest Group “Integra” at the AGH UST Faculty of Electrical Engineering, Automatics, Computer Science and Electronics (currently, Faculty of Electrical Engineering, Automatics, Computer Science and Biomedical Engineering) have become gold medallists at the largest competition of mobile robots in Europe – RobotChallenge in Vienna.

- In 2011 and 2012, two groups of AGH UST young scientists and researchers went to the USA in order to gain professional experience within the framework of the largest governmental programme of supporting innovativeness in science – Top 500 Innovators.

- In 2012, for the first time in history, a Polish female student was awarded a prestigious scholarship “Hong Kong PhD Fellowship Scheme (HKPFS)”. The laureate of the competition was Aleksandra Ziaja of the AGH UST Faculty of Mechanical Engineering and Robotics, who will benefit from a three-year professional training period at one of the best technical universities in Asia – the Hong Kong Polytechnic University.

- Tomasz Oraczewski, a 4th-year student of Mechatronics at the AGH UST Faculty of Mechanical Engineering and Robotics won the first prize in the countrywide competition of degree dissertations “Young and Innovative 2012”.

- At the IBSA World Championships and Games for the Blind and Partially Sighted, organised in Antalya, Turkey, in April, 2011, Marcin Rysza, a first-year student at the AGH UST Faculty of Management, won three gold medals, one silver medal, and two bronze medals.

- For the third time in a row, students of the AGH University of Science and Technology won the gold medal at the “Intercollegiate Race of Dragon Boats 2012”.

- In 2012, the female volleyball players of AGH UST Galeco Wisła Kraków have been promoted to the First League.

- Marcin Zastawnik, a doctoral student at the Department of Mechanics and Vibroacoustics of the AGH UST Faculty of Mechanical Engineering and Robotics won the second prize in the first edition of FameLab 2012.

- In the third edition of the competition “Girls of the Future 2012”, Łucja Rumian, a student at the AGH UST Faculty of Materials Science and Ceramics, was appreciated for the technology of obtaining polymeric biomaterials which can be used in the regeneration of bone tissue.

In the prestigious ranking TOP 500 of the most powerful computers on the globe, the supercomputer of the AGH UST Academic Computer Centre CYFRONET Zeus has been listed for the fifth time. In June 2012, our supercomputer was classified at the 89th position, once again coming ahead of the other Polish supercomputers.
The AGH University of Science and Technology is not only an important link between science and industry, but as a technical university, by means of inventions, patents and research it contributes to the development of the Polish industry and economy. We understand the importance of the task, and this is why we create better and better conditions for our scientists by enabling them to use modern devices and apparatus, building new laboratories and providing research equipment, which on many occasions is unique on the European scale.
Investments

In the course of the recent years the university has changed its face. We have completed many building developments and refurbishments. The campus has gained a new look thanks to the renovation of building facades.

The university constantly develops. It is confirmed by a regularly-increasing number of students, as well as the new areas of scientific research projects. The infrastructure did not secure the needs connected with the educational process and conducted research.

Financing from different sources, from the subsidies of the Ministry of Science and Higher Education, through the funds of the operational programmes such as Innovative Economy or Infrastructure and Environment, to the Małopolska Regional Operational Programme, have enabled the accomplishment of many building developments. It would not be possible if it was not for a good financial condition of the university. A positive financial result has enabled to cover the equity contribution for particular projects, which is the basic condition for obtaining financing.

In 2012, the three largest investments of the recent years were completed:

- The Centre of Computer Science,
- The Centre of Ceramics,
- The Academic Centre of Materials and Nanotechnology.

In addition, in the course of the recent years, the following investments have been developed:

- the AGH UST swimming pool,
- the AGH UST Teaching Centre,
- the lecture building of the Department of Telecommunications,
- the lecture building for the discipline of Power Engineering,
- the Education and Research Laboratory, and the Laboratory of Renewable Sources and Conservation of Energy for Balanced Development on the basis of the education centre of the Faculty of Geology, Geophysics and Environmental Protection in Miękinia,
- the Multimedia Language Centre for students of technical fields of study.

Thanks to the above, the research staff of AGH UST have gained additional space and research equipment for conducting experiments, and students have gained a possibility to acquire knowledge in modern laboratories. The development of the Main Library is in progress, and the university is preparing for a new investment which has provisionally been called the Centre of Power Engineering.

Apart from the large scale of building works, the university also invests in modern research equipment. Currently, AGH UST holds the latest generation analytical electron microscope (S)TEM FEI Titan Cubed G-2 60-300 with unique instrumentation for testing the micro- and nanostructure of materials. A new workshop of magnetic-resonance imaging has also been opened at the Faculty of Physics and Applied Computer Science.

We regularly modernise student houses increasing the comfort and safety of living at the AGH UST campus. Furthermore, we regularly modernise the campus infrastructure taking into account the needs of people with disabilities.
We also develop the sports base. The centre of the Department of Sport and Physical Education at Piastowska street has been renovated, the AGH UST swimming pool has been constructed, and a football pitch with an artificial surface, as well as volleyball and basketball courts have been built within the campus area. In this way, we are aiming at the development of the Centre of Sport, which will enable the employees and students of our university to fulfil their sporting passions.

All our investments fulfil the requirements of modern architecture, are well thought-out from the perspective of the development of the university, the labour market, and the development of the world economy. There are a number of smaller investments at nearly all faculties of the university: we renovate laboratories, refurbish classrooms and repaint building facades, invest in state-of-the-art teaching and research equipment. While extending the campus, the university authorities do not forget about the needs of the university students; we ensure the best teaching staff and research base, but we also care about our students' everyday life. For this reason, we have built the AGH UST swimming pool which also holds a sauna, a bowling alley, and a gym.

We are aware that no country's economy can develop without highly-qualified academic and research staff having access to the latest scientific research equipment, and without excellent engineers. We can teach and carry out scientific research, and we can transform technical achievements into the progress and development of industry. The AGH University of Science and Technology is a university looking into the future, and for this reason, we believe in continuous development and investment.
AGH UST campus

The AGH UST Campus is the largest in Poland. It is located at the AGH University of Science and Technology in Krakow, almost completely between the streets of Reymonta, Tokarskiego, Nawojki, and Miechowska. The location of the campus – within the distance of a 20-minute walk from the main market square, and convenient public transport – lets its inhabitants reach all parts of Krakow quickly and easily.

The AGH UST campus consists of 20 student houses which offer over 9,000 beds in reasonable prices for the students of the AGH University of Science and Technology and other Krakow universities. All rooms allow free access to the Internet. The houses hold studying rooms, as well as TV rooms and club spaces. The room standard is improved regularly by means of necessary renovations and refurbishments. All this bearing in mind students' convenience and comfort.

CONDITIONS FAVOURABLE FOR DEVELOPMENT – A direct neighbourhood of the AGH University of Science and Technology lets the campus users actively participate in the university life. A rich offer of scientific conferences, trainings, lectures, and the activities of special interest groups creates an opportunity for the development of knowledge and interests.

RICH OFFER OF CULTURAL EVENTS – Within the Campus area there is one of the largest concert clubs in Poland – Klub STUDIO. Every year, in the club’s repertory there are dozens of cultural events featuring the best Polish and international artists. Klub Zaścianek regularly hosts concerts of emerging music bands, live-band karaoke, and collective singing events. Thinking of demanding students who look for more ambitious music, Klub Gwarek organises concerts of blues, jazz and folk performers. Dance lovers are invited to Klub Karlik, where professional DJs make sure every student’s music taste is satisfied. An ideal location for a meeting with friends is Klub Filutek, whose interior decorations let you escape from the hustle and bustle of the city while dining in good company over a tasty meal.

SUITABLE FOR SPORTS LOVERS – The Campus has its own sports fields (including a modern football pitch, and volleyball and basketball courts with artificial surfaces) and tennis courts. In a close proximity to the University Campus there is a modern sports and recreation complex – the AGH UST swimming pool. An excellent location of the Campus situated close to the Krakow Blonia Park and Park Jordana allows runners, joggers, cyclists, and roller skaters to spend time actively in picturesque and green areas of the city.

CAMPUS IN SUMMER TIME – In July, August and September the AGH UST Campus offers tourists visiting Krakow over 4,000 beds in student hostels. During the academic year, hostel services are provided by the student house OLIMP, which offers 240 beds in studio-type rooms with bathrooms and kitchenettes. A detailed offer of hostel accommodation at the campus is available on the website: \( \text{www.taniehostele.pl} \)

More information concerning the AGH UST Campus can be found on the website:  \( \text{www.miasteczko.agh.edu.pl} \)
Apart from student houses, the Campus infrastructure comprises: student clubs, a pool billiards club, sports courts and pitches, tennis courts, fitness clubs, a health centre, a nursery school, a post office, a chemist’s, a supermarket, and many various shops, eating establishments, and service outlets.
AGH UST is committed to sport

We know how psycho-physical development is important for young people. This is a reason why we actively promote sporting activities, as well as take steps aiming at the extension and improvement of the AGH UST sports infrastructure. The promotion of healthy lifestyle among university students is made possible by means of a swimming pool, modern gyms, a steam sauna, a football pitch, a modern sports hall with an artificial surface, and many other facilities. Many of our athletes have an opportunity to practise sports and take part in the most important championships in Poland and abroad, and professional athletes can enjoy individualized programmes of studies, as well as scholarships for outstanding sporting achievements.

The AGH UST Department of Sport and Physical Education is an inter-faculty unit whose aim is to promote physical culture among AGH UST students and employees, as well as healthy lifestyle among the academic community. The department is responsible for indoor and outdoor compulsory Physical Education classes. The Department of Sport and Physical Education makes use of the following sports facilities:

- modern sports halls with an artificial surface, a sound system, digital scoreboards,
- two modern gyms (recreational and training),
- an aerobics and training room with a sound system for exercises to music,
- a football pitch,
- table tennis rooms,
- fencing rooms for people with disabilities,
- three high-class yachts, canoes,
- a steam sauna.

The sports infrastructure is suitable for people with disabilities. The AGH UST Department of Sport and Physical education co-operates closely with the University Club of the AGH UST Academic Sports Association, as well as the Student Council, the Social Department, the Foundation of AGH UST Students and Alumni “Academica”, and the AGH UST Association of Students with Disabilities. A large number of units of the AGH UST Academic Sports Association is an asset thanks to which many AGH UST athletes can have a chance to practise sports and take part in the most important championships in Poland and abroad. The AGH UST Department of Sport and Physical Education also participates in organising sailing, rowing, skiing and cycling camps, which are very popular with students. In addition, it organises alternative rehabilitation classes for students with health problems, as well as carries out training within the field of basic life support.

The AGH UST swimming pool is a modern sports and recreation complex located within the area of the AGH UST campus. The complex holds a 25-metre swimming pool, officially approved by the Polish Swimming Federation, a recreational swimming pool with hydro-massage, a Jacuzzi, a water slide, and saunas (steam and dry). Our professional and experienced instructors offer lessons for infants, children, teenagers and adults, prenatal water gymnastics, aqua aerobics and rehabilitation exercises in water. The building also holds a modern bowling alley, billiards, table football, air hockey, and a gym, as well as a play area for children. The gym has modern TechnoGym exercise equipment. Our instructors will take good care of you, and offer a possibility of individual training and professional advice. The complex also holds a bar, a restaurant, and a shop with a great variety of sports equipment.
AGH UST – university friendly to disabled students

The group of students with disabilities at the AGH University of Science and Technology is quite significant (about 500 people). The university is friendly to disabled students and open to their problems. The university’s approach is complex and takes into account the needs of each individual student. The methods and forms of education are flexible and tailored to individual needs. The university authorities have introduced many regulations concerning students with disabilities. The majority of university buildings is equipped with lifts, drives, and disabled toilets, and other buildings are gradually adapted. A great asset is one of the student houses which is located in the middle of the AGH UST campus and has rooms specially designed for disabled students. Students with hearing difficulties can benefit from sign language interpreters free of charge. More and more AGH UST units have employees capable of communicating in sign language. Students who are blind, partially sighted, deaf or hard of hearing can also attend specially-designed foreign language classes. In the laboratory of typhlo-informatics, blind and visually impaired students can use specialist equipment, and text-enlarging and reading software. The university library enables students with various disabilities to use library resources in alternative forms. Disabled students can also hire individual rehabilitation and educational equipment (for example, FM systems, Dictaphones, enlargers, etc.). Psychological support and counselling service is also available. A helping hand given to disabled students does not only concern education. Students with disabilities can attend sports classes such as wheelchair fencing, and participate in exercises in a specially-designed gym and swimming pool. There is also a rehabilitation group. A university basketball team for students on wheelchairs, the only one of this kind in Poland, is open to students of other universities. The university activities for disabled students are coordinated by the AGH UST Disability Support Office, which also supports the initiatives of the Association of Disabled Students, the first organization of this kind in Poland. The Office offers legal advice and helps students in contact with the university authorities, as well as offers support in solving all kinds of problems. The Association focuses on the development of student life in relation to disabled students, as well as on shaping the personality of young people. The friendly atmosphere of the Association along with the integration camps, parties, workshops and courses organized together with the Office particularly facilitates integration with the student environment. The Office is also responsible for increasing the availability of AGH UST web pages. There are trainings in the area of effective help to disabled students. All these activities give students with disabilities an opportunity to obtain excellent qualifications, and prepare for an equal start in life.
AGH UST supports young researchers and entrepreneurs

Students can develop their scientific interests in Student Special Interest Groups. Student special interest groups are an integral part of the system of education at AGH UST. They enable students to broaden their knowledge and skills under the supervision of scientists and researchers. At present, there are approximately 100 student special interest groups (all belong to the Mining or Metallurgy Section). The most popular forms of the special interest groups activities are regular trainings, participation in theoretical research and experiments conducted at different university departments and institutes, organising conferences, seminars and science camps, participating in conferences held in Poland and abroad, taking part in international student exchange programmes and in research and training trips, as well as in research-tourist and recreational trips. The results of students' annual work are presented at the sessions of student special interest groups, which are held during the annual university festival celebrations on the occasions of Miner’s and Metallurgist’s Days. The best works presented during each session are then published in "Zeszyty Naukowo-Dydaktyczne AGH" (English: AGH UST Scientific Journals), and these publications often become a springboard for a scientific career of the future graduate. In order to support and develop students’ scientific movement and integration, as well as to ensure the continuity of contact between graduates and the members of currently active student special interest groups and university academics, the Student Scientific Society has been set up. It organises competitions for the best master theses called 'The diamonds of AGH UST', held under the auspices of the AGH UST Rector.

The AGH UST Academic Business Incubator is an independent, non-profit university unit. Its aim is the promotion of creativity and professional independence among students, doctoral students, university graduates and employees in the Małopolska region, as well as helping them to establish their own businesses. The Incubator’s aim is to enable creative and ambitious people to begin their own business activities at minimum cost, so that after a period of incubation they can act in the conditions of the market economy, utilising the experience and knowledge gained at the Incubator. The AGH UST Academic Business Incubator is an institution supporting its beneficiaries at every stage of a company establishment, from a business idea, through a feasibility study, to its implementation. Beneficiaries also get support in recruiting contractors. It has been possible due to collaboration and cooperation with institutions and companies having suitable potential and experience, which they are willing to share with the beneficiaries of the Incubator. Beneficiaries can also make use of the technological and logistics infrastructure of AGH UST. Thanks to the co-operation with the university, beneficiaries can use specialist workshops, laboratories and equipment of the AGH UST faculties. The Business Incubator also provides advice to people who intend to start their own business activities. Considering its innovative form and offer, the AGH UST Academic Business Incubator is the only project of this kind in the Małopolska region.
O Uczelni

Akademia Górniczo-Hutnicza to szczególne
miejsce z niezwykłą atmosferą i barwną
ponad 90-letnią historią; miejsce gdzie powstają
idee, rodziny, sukcesy oraz przyjaźń na całe życie.
Student life

The AGH University of Science and Technology is a unique place which attracts young people not only from Poland. What determines the uniqueness, in the first place, is the location – the AGH UST campus is situated in the city centre, 15 minutes away from the main market square; secondly, the campus is a uniform area which can be walked or cycled across (it is a town within the city); thirdly, within the campus area there are many student clubs with an interesting cultural offer; and finally, Krakow is a city of theatres, galleries, and museums.

The campus also holds a complex of fields and pitches (also with an artificial surface), courts, a sports hall, and a swimming pool with gyms. There is an interesting offer of sporting and recreational activities for everyone.

Apart from the well-developed sports base, young people can join various AGH UST organisations. There are many possibilities, from artistic ensembles (excellent examples are the AGH UST Student Representative Orchestra, the AGH UST Song and Dance Ensemble "Krakus", or the AGH UST Choir "Con Fuoco"), through the traditional forms of recreation (walking, cycling), to some more sophisticated ways of spending free time (climbing, diving, speleology, and sailing clubs). All of them let you practise and develop your skills, or gain new ones.

However, in the first place, the university is people. Studying is a period of gaining knowledge, but also developing personality. During the studying period we meet a lot of people and make friends for life. There are many initiatives such as balls, excursions and feasts which help to build a friendly atmosphere.

All AGH UST students are represented by the University Board of Student Government, which deals with social and accommodation problems, as well as issues related to sport and culture by means of organising departmental excursions and balls, meetings to celebrate the Miner’s or Metallurgist’s Day, and – probably the most popular in the student environment – Krakow student festival Juvenalia.
Every year, students of most university faculties organise a ball and an excursion both for students and teachers. It is an excellent opportunity to get to know one another, as well as to extend the everyday, usually very formal relations between the university staff and students.
Wydział Geodezji Górnictwa i Inżynierii Środowiska
Faculty of Mining and Geoengineering

The Faculty of Mining and Geoengineering (Faculty of Mining until 2002) is the oldest faculty of the university. It was the only faculty when the university was established by Józef Piłsudski in 1919. Until the 1950s, the history of the faculty is the history of the university. At present, the faculty staff actively work on the reclamation of mining land, solve the problems of economics, organization and management in mining, as well as deal with water, gas, and heat hazards. The faculty actively collaborates with industry by exporting Polish know-how to nearly all countries. Apart from the above, the faculty carries out non-typical research, namely, into the revalorisation and protection of the underground infrastructure of historical towns such as Sandomierz or Kłodzko. The faculty participates in carrying out general agreements signed with numerous institutions in Poland and abroad. These agreements mainly concern R&D collaboration, the improvement of laboratories, students' practical training, and the mutual employment policy of university graduates. The faculty co-operates with several universities and research centres in Poland and other countries (Russia, France, Germany, Ukraine, Slovakia, the Czech Republic). Faculty graduates, depending on the specialisation, are prepared to work in the units of civil and local administration, centres of environmental protection, and the economic departments of companies. They can also be employed in positions involving design and investment in mines, as well as work underground.

Students get full qualifications entitling them to hold top positions in mining and civil engineering companies. The programme of studies at all specializations of Mining and Geology as well as Civil Engineering follows all formal and legal requirements for mining and construction engineers.
Faculty of Metals Engineering and Industrial Computer Science

When the Senate of the Mining Academy appointed the first Council of the Faculty of Metallurgical Engineering on 21st May, 1922, metallurgy became a new, separate course. On 30th November, 2005, the Senate decided to change the existing name into the Faculty of Metals Engineering and Industrial Computer Science. At present, the faculty still develops and extends further its educational offer. The current faculty structure comprises departments which conduct research and educate students in Metallurgy, Materials Science, and Applied Computer Science. The faculty collaborates with Polish research centres of a similar profile: the Faculty of Materials Science and Metallurgy at the Silesian University of Technology in Katowice, the Faculty of Materials Processing Technology and Applied Physics at the Częstochowa University of Technology, the Institute of Metallurgy and Materials Science at the Polish Academy of Sciences in Krakow, the Institute of Iron Metallurgy in Gliwice, and others. The faculty maintains excellent contacts with industry by participating in research projects and industrial training. International collaboration includes long-term scientific contacts with industry, universities, and research institutes. Current research focuses on extractive metallurgy, materials science, metal forming, heat engineering, environmental protection, the computer-aided modelling of metallurgical processes, and industrial computer science. Faculty graduates are prepared for careers in metals engineering, heat and air-conditioning, environmental protection and waste management, and computer science for materials engineering. Graduates in Technical and Computer Science Education can work in all types of educational institutions, including universities. They are also prepared to give lectures and training in applied and industrial computer science on courses organized by various organizations, companies and institutions.
Faculty of Electrical Engineering, Automatics, Computer Science and Biomedical Engineering

The AGH UST Faculty of Electrical Engineering, Automatics, Computer Science and Biomedical Engineering is one of the largest faculties in Poland. It invariably occupies a high position among other similar educational units both in Poland and abroad. Initially, the history of the faculty was connected with the Faculty of Electromechanics (established in 1946), which in 1952 was converted into two faculties: the Faculty of Electrification of Mining and Metallurgy, and the Faculty of Mechanization of Mining and Metallurgy. The scientific potential of the faculty is confirmed by its right to confer the degree of doctor as well as the post-doctoral qualification in Automatics and Robotics, Electrical Engineering, and the doctor’s degree in Biocybernetics and Biomedical Engineering. The scientific and research activity at the faculty concentrates on modern techniques and technologies in information, bioengineering, robotics, environmentally-friendly production, transportation and the use of electrical energy, modern electrical equipment, and metrology. Research conducted at the faculty usually finds practical solutions in various areas. A lot of the faculty staff also hold prestigious positions in world organizations, committees, and honorary social organizations. The development strategy of the faculty concentrates mainly on the following fields of science: biotechnology, information society technology, sustained development – renewable energy sources, as well as the equipment for disabled people. The discipline of Biomedical Engineering goes beyond the traditional domains of technology in order to serve people, incorporating experience of scientists representing various disciplines. Integration and versatility are very important aspects of studies offered to faculty students. Graduates of the faculty frequently undertake their first jobs during the study period, subsequently becoming the most needed specialists on the labour market.
Faculty of Computer Science, Electronics and Telecommunications

The Faculty of Computer Science, Electronics and Telecommunications was established in the process of the transformation of the Faculty of Electrical Engineering, Automatics, Computer Science and Electronics. The faculty plays a leading role in education and research in the fields of computer science, electronics and telecommunications. The faculty consists of 3 departments: the Department of Computer Science, the Department of Electronics, and the Department of Telecommunications, all of which have a long tradition of excellence in their respective fields, and employ excellent academic staff. This is manifested in outstanding ratings awarded by the State Accreditation Committee to the degree programmes offered by both the Department of Computer Science and the Department of Electronics and Telecommunications. A new degree programme in Teleinformatics has recently been introduced, and the admission procedures have already started for the academic year 2012/13. Teleinformatics is a dynamic branch of engineering that combines the achievements of Computer Science and Telecommunications.

The development strategy of the faculty includes key research areas such as information society technologies, computational cloud structures, fast optical networks, global wireless communications, the Internet of the Future, the Internet of Things and sustainable development, including embedded systems, industrial electronics, renewable energy sources, sensorics and nanotechnology. Modern and exceptionally well-equipped facilities, spacious classrooms and the most modern laboratories are available to students. Most lectures take place in the Computer Science Center – the new building opened in 2012 which provides a uniquely designed space for teaching and research purposes.

Students receive education that is relevant to the highly competitive global marketplace, and develop skills that are invaluable in their future careers. Degree programmes that are adjusted to the fast-paced environment of the relevant industries along with the maintenance of high teaching standards give graduates of the faculty a real advantage in the job market, and allow them to become valuable members of engineering teams working for international corporations located in Krakow and all around the world, such as Google, IBM, CISCO, Motorola, Delphi, Comarch, and others.
Faculty of Mechanical Engineering and Robotics

The Faculty of Mechanical Engineering and Robotics became a separate AGH UST unit in 1952 as a consequence of the division of the Faculty of Electromechanics; initially, its name was the Faculty of Mechanization of Mining and Metallurgy. The present name was given in 1952. At the moment, the faculty employs 325 staff, including 220 university teachers, and educates 3,700 students. For many years, the faculty has been dealing mainly with mechanics, machinery construction and operation, automatics and robotics. In the recent years, the number of patents and implementation agreements has been significant. The faculty closely collaborates with the extractive and metallurgical industries together with their technical base, and a considerable number of energy and heat energy plants. In particular, the collaboration with the following companies is very close: KGHM Polska Miedź SA, SKANSKA SA, SIEMENS, PZL Mielec – Sikorsky Aircraft Corporation, IOS KRAKOW, VALEO, ABB, KIRCHHOFF, MAN, MUSUBISHI ELECTRIC, PIMOT Warsaw, and DELPHI Automotive Systems. Thanks to our highly-qualified staff, the faculty can collaborate with worldwide recognized educational centres in the European Union, Latin America, and the USA. Faculty students obtain grants and can study in Germany, France, and Great Britain, which results in obtaining two diplomas – one from AGH UST, and one from a foreign university. A wide scope of studies enables faculty graduates to work in any industrial branch in Poland, and their spectacular careers are often the best proof of their qualifications. The faculty is changing constantly, following the needs of the transforming economy, and the expectations of candidates. The faculty’s latest offer is Mechatronics. It is a new, interdisciplinary branch of studies which combines mechanics, electronics, and computer science. Mechatronics deals with products which require a very high functional and technological integration of their mechanical, electromagnetic and electronic parts. The Faculty of Mechanical Engineering and Robotics also offers studies in the discipline of Acoustic and Sound Engineering, and in the discipline of Mechanical and Materials Engineering.
Faculty of Geology, Geophysics and Environmental Protection

The Faculty of Geology, Geophysics and Environmental Protection had its beginnings in the early days of AGH UST in the form of three "geological" departments belonging to the Faculty of Mining, which was the only faculty of the Mining Academy at that time. In chronological order they were: the Department of Mineralogy and Petrography, the Department of Geology, and the Department of Applied Geology. In 1946, they were incorporated into the newly-established Faculty of Geology and Surveying, which evolved into the Faculty of Geology (in the academic year 1951/52), and the Faculty of Geology and Mineral Exploration (in the academic year 1952/53). In the following years, the faculty was growing steadily, and its structure underwent many changes. In the academic year 1992/93, the faculty was renamed again, and since then it has had its current name – the Faculty of Geology, Geophysics and Environmental Protection. At present, the faculty has the most humanistic profile among the technical faculties of AGH UST. It is the only faculty in Poland which educates students of geology to become specialists in applied geology, geophysics and computer science, and at the same time, it offers a university-type of education, including the environmental aspects of geological sciences and tourism. Such a diversity gives faculty graduates better possibilities to find employment in industry (mainly in mining and related sectors), secondary education, research institutes, administration, tourist offices, and others. Among European universities, the Faculty of Geology, Geophysics and Environmental Protection has the highest number of professors and associate professors (doctors with post-doctoral qualifications) in geology, supported by a substantial number of doctors and assistants; some of them are the former Fulbright and Humboldt scholarship holders. The staff, working in well-equipped laboratories, can deal with almost any research task, carrying out mainly practical research. Staff members are also involved in basic research that helps us understand better the world and its phenomena around us, although the results of this research cannot currently find a practical use due to the insufficient development of technology.
Faculty of Mining Surveying and Environmental Engineering

The AGH UST Faculty of Mining Surveying was established on 1st October, 1951, on the basis of two existing units: the Geodesy Department at the Faculty of Engineering of the AGH Polytechnic Faculties, and the Department of Mining Surveying at the Faculty of Surveying and Geology. Initially, the faculty’s students were educated in geodesy and cartography, specializations covering mining surveying and engineering, and industrial geodesy. At present, the faculty’s research activities focus on the implementation of computer science in the context of spatial data processing, and on using modern metering and measurement techniques for the purpose of industrial, architectural and infrastructure stocktaking. Research activities cover the implementation of the GPS technology, terrestrial and aerial laser scanners, and the application of radar interferometry. Extensive studies have also been conducted into the use of teledetection and photogrammetric methods for the purpose of monitoring the natural environment and historical buildings. In the area of environmental engineering, the research activities aim at improving the methods used in determining the quality level of all environmental components. Scientific studies include research into the amount of emitted pollutants coming from various sources, focus on their influence on the ecosystem, and the optimisation of industrial technologies in order to weaken their harmful effect. Various methods of environmental management such as air quality management, water, sewage and waste management have also been developed. A lot of attention is paid to soil surveying, the reclamation of contaminated sites, and the restoration of their biological functions.
Faculty of Materials Science and Ceramics

The origins of the Faculty of Materials Science and Ceramics date back to 1949, when the Faculty of Minerals, later renamed the Faculty of Ceramics, was set up at the University of Mining and Metallurgy. Its present name was given in 1971, and was related to the inauguration of the ‘Materials Science’ course - the first such a course in Poland, and one of the first courses of this kind in Europe. The Faculty of Materials Science and Ceramics educates students in the following disciplines: Materials Engineering, Chemical Technology, Ceramics (since 2010), Chemistry of Building Materials (a joint programme of three universities: Gdańsk University of Technology, Technical University of Łódź, and AGH UST, offered since 2011). Students graduating from the faculty have strong technological background, traditionally associated with the manufacturing of ceramics, glass, building materials, and refractories. They also have comprehensive engineering knowledge in the areas of designing, processing and testing new materials for specific applications in different fields of modern industry (for example, energy production, aircraft and automobile industries, electronics), materials for medicine and environmental protection, as well as analytical science and quality control. The main research activities of the faculty staff in the area of solid state chemistry, inorganic chemistry and silicate chemistry focus on problems important for the traditional large-scale technologies, but they also concentrate on the development of knowledge-based materials for demanding applications, and advanced characterization methods and analysis. The Faculty Board is entitled to confer the degree of doctor as well as the post-doctoral qualification, and the title of professor in chemical and engineering sciences in the following disciplines: chemical technology, materials engineering, and chemistry. The Faculty of Materials Science and Ceramics is a well-equipped research and education centre which has a nationwide importance, strong links with industry, and excellent international collaboration.
Faculty of Foundry Engineering

The Faculty of Foundry Engineering was established in the academic year 1951/52 by the act of splitting the Faculty of Metallurgy. In line with the faculty’s profile, there were two specializations: foundry technology, and foundry machines and mechanisation. At present, the faculty is entitled to confer the degree of doctor as well as the post-doctoral qualification, and the title of professor. The faculty educates specialists in the field of foundry technology, and is the only faculty of this kind and scope of education operating within the structure of the higher education system in Poland and Europe. Modern foundry technology mainly strives for the improvement of casting production quality, reduced consumption of energy and raw materials (lean processes and lean production), improved processes and product economy, and, last but not least, reducing the harmful effect of the foundry industry on the environment. The idea of constructing and operating a waste-free foundry plant is nowadays the main subject of large-scale international research projects. Graduates of the faculty are well-prepared to face the challenges of modern industry. They possess skills and capabilities necessary to develop and implement new, advanced technologies, and to undertake management challenges of modern industrial enterprises. Therefore, they are also highly valued in other countries (for example, in Germany, where the demand for foundry specialists is very strong). Students of the faculty also have a possibility to obtain a double diploma – one of AGH UST, and one of a foreign university. In 2011 – with the help of the Faculty of Metals Engineering and Industrial Computer Science – a new, interdisciplinary field of studies called VIRTOTECHNOLOGY was introduced. Graduates in this discipline will gain knowledge and practical skills with regard to the processing of metals, materials technology, computer science, economics, and ecology. They will demonstrate creative attitude towards issues related to virtualization processes and the professional use of computer tools for the purpose of processing technological problems. The faculty maintains permanent contact with foundry enterprises, organises training courses for students, as well as offers postgraduate scholarships for those who have successfully completed their studies. Faculty staff maintain relations with numerous scientific and research centres, universities, research institutes, and industry. A map of the locations of foundries and enterprises with which the Faculty of Foundry Engineering has been collaborating covers practically the whole area of Poland.
Faculty of Non-Ferrous Metals

The Faculty of Non-Ferrous Metals was established in 1962. It is a research and educational unit which is unique on the world scale. It educates future engineers and conducts research for the industries of metallurgy, materials science, processing of non-ferrous metals, physical metallurgy, as well as related branches. Since the early days of the faculty, it has maintained very close collaboration with industry. The development strategy of the faculty is mainly based on two fundamental notions: educating students and carrying out research, both leading to staff development. Our educational offer for students encompasses the latest technologies in the field of the production and processing of metals, alloys, and composites, as well as the methods of testing and designing their structures and properties by means of modern analytical and experimental instrumentation. Graduates of the faculty know how to make use of the special features of metals, such as durability, hardness, plasticity, electrical and thermal conductivity, superconductivity, magnetic properties, shape memory, and many others. The faculty prepares its graduates to work not only in the metallurgical and processing plants of the industry of non-ferrous metals. The knowledge gained by graduates also allows them to find jobs in the metal, machine-building, automotive, aircraft and ship-building industries, in the production of cables and materials for power industry, in the industries of electrical engineering, telecommunications and medicine, precious metals production, the Polish Mint, and in other plants dealing with plastic working and heat treatment, property testing, and quality control. Collaboration with industry has been performed within a large spectrum of subjects - from the problems of obtaining metals out of concentrates to the production of new alloys and products designed for different purposes. It encompasses all plants of nonferrous metals (metallurgical and processing), as well as a large number of enterprises operating in the mechanical, chemical, oil, power engineering, iron and steel sectors, and many others. The faculty has also been a co-founder and active participant of projects conducted by various research and scientific consortia.
Faculty of Drilling, Oil and Gas

The Faculty of Drilling and Petroleum Engineering was established in 1967, and in 1995, it was renamed the Faculty of Drilling, Oil and Gas. Its activity focuses on petroleum, gas engineering and scientific research, mainly of practical character. Being the only faculty of this kind in Poland, it offers education within full-time, part-time, doctoral and postgraduate study programmes. The Faculty of Drilling, Oil and Gas consists of three departments: Drilling and Geoengineering, Oil Engineering, and Gas Engineering. The works of the Department of Drilling and Geoengineering concentrate on designing boreholes, optimising the parameters of drilling technology, working out the compositions of drilling muds and sealing slurries, designing tools and devices for on- and off-shore boreholes, as well as trenchless techniques. The Department of Oil Engineering is responsible for investigating new geophysical methods, methods of on- and off-shore oil and gas production, mathematical modelling and computer simulations of liquid raw materials production, deep and surface geological cartography of hydrocarbon deposits, determining hydrodynamic conditions of hydrocarbon migration and accumulation, verification of hydrocarbon resources, geochemical monitoring of underground gas storage facilities, utilization of sewage and waste water, environmental monitoring, exploration and production of groundwater, activation and renovation of wells and water distribution systems. The scientific and research works conducted at the Department of Gas Engineering focus on natural gas production, underground gas storage, production of natural gas from unconventional deposits, designing gas transfer systems, modelling hydrocarbon deposits production and UGS operation, works related to carbon dioxide sequestration, and the analyses of energy systems in Poland. The Faculty of Drilling, Oil and Gas collaborates with scientific centres in Poland and abroad. A result of this collaboration are European and Polish joint projects, as well as numerous publications, expert reports and patents.
Faculty of Management

The Faculty of Management at AGH UST is one of the oldest business faculties at technical universities in Poland. The beginnings of business education at AGH UST date back to the Second World War, when courses in management and organization were held at various AGH UST faculties. The Faculty of Management was established in 1974. In 1979, the faculty was relocated to the building in Gramatyka street in Krakow, where it has remained until today. Since that time, the faculty has been developing its activities in education, research, and consultancy. Collaboration with foreign educational institutions focuses on students’ and lecturers’ exchange programmes, as well as joint research projects. In the past such joint projects contributed substantially to the restructuring of the faculty, and the modernization of the syllabus and courses offered to students. Every year, almost a hundred students of the faculty are granted scholarships to study a semester or two at universities abroad. The faculty is planning to hold more lectures in English in the near future, as well as maintain students’ exchange programmes with partner universities.
Faculty of Energy and Fuels

The Faculty of Energy and Fuels is now at a turning point: it develops very rapidly and in line with an increasing demand for energy and fuels, both being essential for the economic growth of any society. The faculty was established in 1991 as the Faculty of Coal Energochemistry and Physical Chemistry of Sorbents. At that time, the research and education offered by the faculty concentrated on energeochemical processing of coal, and the development of sorbent technologies. Gradually, the faculty extended its educational and research offer with an emphasis on fuels and energy of the highest quality, conditions of sustainable energy development, implementation of renewable energy sources, and environmental protection in chemical and power industries. Consequently, in 1995, the faculty’s name was changed into the Faculty of Fuels and Energy. Although the faculty educated students in chemical technology, many elements of energy and power engineering were also introduced into the programme of studies. Therefore, students who graduated from the faculty could apply for a job in the chemical, power engineering, metallurgical, gas, heat, and environmental protection industries, as well as in local and governmental administration. In 2003, the Ministry of Science and Higher Education registered a new discipline of studies: energy. At AGH UST, the education in this discipline was entrusted to the Interfaculty School of Power Engineering. In 2008, the Senate of the University decided to integrate the Faculty of Fuels and Energy and the Interfaculty School of Power Engineering in order to form a large and significant faculty whose aim was to combine education and research on fuel technology and power engineering. Since 2008, the Faculty of Energy and Fuels has significantly developed its scientific research infrastructure, as well as the base of human resources. The number of departments has increased from three to eighth, the number of research staff from 56 to 88 (professors from 12 to 24), and the number of students has doubled. New specializations have been introduced, for example, nuclear power, hydrogen energy, and computer modelling in power engineering. New laboratories and lecture rooms have been built, some have been refurbished; general modernization of building D-4 is currently in progress.
Faculty of Physics and Applied Computer Science

The origins of the faculty date back to 1919, when the Mining Academy was founded, within which the Department of Physics was established. It had undergone several organizational transformations, until in 1991, the AGH UST Senate decided to form the Faculty of Physics and Nuclear Technology. In 2004, the name was changed to the Faculty of Physics and Applied Computer Science, according to the changes in the fields of research and educational activity. The faculty offers several programmes of studies leading to bachelor’s, master’s, and doctor’s degrees. The undergraduate courses encompass a seven-semester basic bachelor’s programme. They are followed by three-semester graduate programmes leading to master’s degree in the following specialisations: Medical Physics, Technical Physics, and Applied Computer Science. “The Construction and Establishment of the Bionanotechnology and Biodiagnostics Laboratory at the Faculty of Physics and Applied Computer Science of the AGH University of Science and Technology in Krakow” within the framework of the Malopolska Regional Operational Programme of the European Regional Development Fund is a dedicated project whose aim is to ameliorate both research and teaching quality in the discipline of Medical Physics. The faculty runs a four-year programme of doctoral studies in Physics in the fields related to the research interests of the faculty researchers, i.e. technical nuclear physics, condensed matter physics, high energy physics, nuclear electronics, and environmental physics. In collaboration with other research institutes, the faculty runs an interdisciplinary research project „Advanced Materials for Modern Technologies and Future Energetics”. The scientific activity of the faculty comprises both basic and applied research in nuclear physics, solid state physics, and the physics of the environment. The faculty’s research programmes are carried out in close collaboration with many international laboratories and research centres. Many research projects are conducted within the European Framework Programmes. The Faculty Board is entitled to confer the degree of doctor as well as the post-doctoral qualification in Physics, and to apply for conferring the title of professor. In a recent ranking of the State Committee for Scientific Research, the faculty has received the top grade A’. The faculty’s staff hold posts in the Polish Government, in major Polish scientific organizations, and in various international scientific and research bodies.
Faculty of Applied Mathematics

Mathematics has been present at the AGH University of Science and Technology since its origins. The first Rector of the university, professor Antoni Hoborski, was a mathematician. In 1969, the Department of Mathematics and the Department of Descriptive Geometry were merged to form the Institute of Mathematics, an inter-faculty unit whose staff members taught at all university faculties. The institute became the Faculty of Applied Mathematics in 1997. The Faculty runs master’s degree courses in applied mathematics, focusing on providing students with practical skills which can be applied in computer science, finance, insurance, management, and various areas of technology. Research shows that 100% of faculty graduates find employment in industry, banks, insurance companies, administration, and education. The research activities cover various areas of mathematics and its applications, including discrete mathematics, in particular, graph theory, functional analysis, numerical methods, computational mathematics, statistics, differential equations, geometry, and stochastic analysis applied to finance. The faculty is entitled to confer the doctor’s degree in mathematics.
Faculty of Humanities

The Faculty of Humanities (formerly Faculty of Applied Social Sciences) was established in 2001 in response to new educational and research needs which had developed as a result of globalisation and rapid technological progress. The mission of the new faculty was defined as the education of modern specialists combining social knowledge with expertise in the application of new information and communication technologies to various areas of public life and business activity. The Faculty of Humanities offers studies in the following disciplines: Sociology (with three specialisations: Multimedia and Social Communication, Economic Sociology; Market, State, Institutions, and E-Economy), and Cultural Studies (with three specialisations: New Media and Intercultural Communication, Culture of New Media, Visual Communication and Graphic Design).

A specific advantage of the faculty in relation to other sociology schools is the offered type of courses related to media studies, Public Relations, multimedia techniques, advertising and promotion. Students are also taught how to implement ITC in the social sphere and e-economy. Students also attend compulsory courses in the basics of computer science, database development, e-trends analysis, multimedia presentations, computer graphics, and picture and sound. Our sociological studies are designed for people interested in future employment in various spheres of business and public life (national and local administration), as well as business organisations relying on new communication and information technologies.

The discipline of Cultural Studies presents a unique value of focusing on the cultural and visual aspects of communication. Alongside classical subjects, the programme offers courses related to media expertise, the anthropology of culture, and the problems of intercultural interpretation, as well as new tools of intercultural communication and graphic design. Cultural Studies also allows students to perceive the values and paradigms of culture in two principal dimensions: in the traditional order, and from an intermedial (virtual) perspective.

Absolwenci znajdują zatrudnienie w przemyśle metalurgicznym, przetwórczym, budowy maszyn, motoryzacyjnym, okrætnowym, energetycznym, elektronicznym, a także w laboratoriach i instytucjach naukowo-badawczych. Wydział kształtuje specjalistów, którzy swobodnie posługują się najnowszymi technikami programowania i łączących w różnych kodach źródłowych z istniejącymi kodami komercyjnymi oraz potrafią dokonywać adaptacji oprogramowania do konkretnych warunków przemysłowych. Absolwenci kierunku Edukacja Techniczno-Informatyczna mogą znaleźć zatrudnienie w szkolnictwie – od szkół podstawowych do wyższych. Studenci zdobywają także wiedzę niezbędną do prowadzenia działal- ności edukacyjnej w formie szkoleń i kursów zawodowych w zakresie informatyki stosowanej i przemysłowej, prowadzonych przez różnego rodzaju organizacje, korporacje i instytucje.
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5. Faculty of Computer Science, Electronics and Telecommunications
6. Faculty of Mechanical Engineering and Robotics
7. Faculty of Geology, Geophysics and Environmental Protection
8. Faculty of Mining Surveying and Environmental Engineering
9. Faculty of Materials Science and Ceramics
10. Faculty of Foundry Engineering
11. Faculty of Non-Ferrous Metals
12. Faculty of Drilling, Oil and Gas
13. Faculty of Humanities
14. Faculty of Management
15. Faculty of Energy and Fuels
16. Faculty of Physics and Applied Computer Science
17. Faculty of Applied Mathematics
18. Main Library
19. Walery Goetel School of Environmental Protection and Engineering
20. Department of Foreign Languages
21. Department of Sport and Physical Education
22. AGH UST Swimming Pool
23. University Board of Student Government
24. AGH UST Centre of e-Learning
25. AGH UST Academic Computer Centre CYFRONET
26. University Computer Centre (UCI)
27. Department of Education
28. University Admissions Board for Prospective Students
29. AGH UST Campus
30. AGH UST Career Centre
31. Academic Business Incubator
32. AGH UST Disability Support Office
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The AGH University of Science and Technology is located within a walking distance of the city centre. It only takes fifteen minutes to get from the university buildings to the main market square and the adjacent streets where a visitor can find many theatres, museums, pubs and restaurants.

The Royal City of Krakow guarantees an unforgettable experience:
- the unique atmosphere of our beautiful city – Krakow is included in the UNESCO World Heritage List
- convenient location – the airport, as well as road and rail connections with major European cities
- a wonderful atmosphere of an academic centre – numerous universities, student festivals, cultural events, and cabarets
- the vicinity of the mountains – an opportunity for skiing and mountain trips
- theatres, cinemas, and museums
- modern shopping centres and multiplex cinemas
- student clubs, cafes, pubs, and restaurants
- sport facilities: swimming pools, tennis courts, football pitches, white-water canoeing courses (some of the best in Europe), golf courses, climbing walls, etc.
- impressive events and performances of famous artists – Coke Live Festival, Sacrum-Profanum Festival with events held in post-industrial venues, Kraftwerk, Music in Old Krakow Festival, Timbaland, Ennio Morricone, Summer Solstice Festivities Wianki, Misteria Paschalia Easter Festival, Krakow Film Festival, and others
- Polish Aviation Museum with an extraordinary collection of aircrafts

Krakow is one of the largest academic centres in Poland – nearly 200,000 young people study here at 23 universities and schools of higher education. It is a city of science, art and culture, the real gem of the region, and one of the most famous and recognizable cities in the world. Dynamically developing air connections, the unforgettable atmosphere and a great potential of hospitable and open-minded inhabitants of Krakow make the city an attractive and unique place.