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AGH University of Science and Technology

AGH University of Science and Technology is at present one of the oldest (established in 1913), biggest, and best Polish technical universities. Contrary to its traditional name, the University has a wide portfolio of education, covering virtually all scientific issues related to technical or similar sciences. The profile and scope of education as well as research at AGH UST is constantly changing and developing, as we are aspiring to be continually up to date with demands of the present times. We are following the requirements of dynamically changing labour market, closely watching directions of changes in economy, administration and politics.

The mission of our university is up-to-date education of engineers who specialise in many branches of technology (offering 57 courses and over 200 specialisations). It is worth mentioning that many of AGH UST specialisations are unique and they have no counterparts in any other Polish universities. We want to preserve this uniqueness by combining knowledge of technology and arts, especially since we employ highly qualified and internationally recognised staff in many unique fields (environmental protection, environmental engineering, underground renovation of historical monuments and archeometallurgy, multimedia and social communication, geotourism, management in specified industries, biomaterials and biomedical engineering).

Amost 37 000 students study in the 16 faculties. PhD courses are also conducted – there are almost 1 000 PhD students at AGH UST. 14 Faculties are authorized to confer the degree of Doctor of Science or Doctor of Philosophy.

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 100 years; the development of the university units was connected with the dynamic development of economy of the country. Invariably, the ambition of AGH UST has been getting ahead of the present time, which results in 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).

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 cleanness, in the so-called "clean room", with equipment designed for nanotechnology and material nonodiagnostics. AGH

My beautiful AGH UST memory

Raquel Pérez Robles (Mexico): *I study at the IPN (National Polytechnic Institute). Studying in Krakow at AGH UST has helped me in my professional career, because I do not go to classes only to accomplish attendance but due to the desire for learning and opening my mind to the knowledge which is being provided to me. This experience would not have been achieved without SMILE – an exchange programme enhancing mobility between Latin America and Europe and without the help of prestigious and highly valued AGH University of Science and Technology.*

The memories of experiences in every classroom, of every trip or party I have had are unique moments that I will never forget because "I learned from my mistakes and I lived my joys". I have met people of different nationalities, different cultures and customs and in each of them, all parts of the world could be found. We should care about this variety. But what I am most proud of is that I found between these people some good friends for life. Will I see them again?, I do not know, but I will keep each of the joys I shared with them.

Programmes of study in English

- **BSc in Electronics and Telecommunications**
- **BSc in Mechatronics**
- **MSc in Applied Computer Science**: Computer Methods in Science and Technology
- **MSc in Biomedical Engineering**: Emerging Health Care Technologies
- **MSc in Chemical Technology**: Clean Fossil and Alternative Fuels Energy
- **MSc in Chemical Technology**: Sustainable Fuels Economy
- **MSc in Electrical Engineering**: Smart Grids Technology Platform
- **MSc in Electronics and Telecommunications**: Computer Network Equipments and Systems
- **MSc in Electronics and Telecommunications**: Network and Services
- **MSc in Electronics and Telecommunications**: Sensors and Microsystems
- **MSc in Energy Technology**: Sustainable Energy Development
- **MSc in Geophysics**: Applied Geophysics
- **MSc in Materials Engineering**: Functional Materials
- **MSc in Mechatronics**: Mechatronic Design
- **MSc in Mining and Geology**: Economic Geology
- **MSc in Mining and Geology**: Mining Engineering
- **MSc in Sociology**: Technoloogy and Society
- **Virtotechnology**: Virtualization of Foundry Engineering
- **Postgraduate Studies in Drilling Engineering**

Fields of study in Polish

- ***automatyka i robotyka*** *Automatics Control and Robotics*
- ***budownictwo*** *Civil Engineering*
- ***ceramika*** *Ceramics*
- ***chemia budowlana*** *Chemistry of Building Materials*
- ***edukacja techniczno-informatyczna*** *Education in Technology and Computer Science*
- ***ekologiczne źródła energii*** *Ecological Sources of Energy*
- ***elektronika*** *Electronics*
- ***elektronika i telekomunikacja*** *Electronics and Telecommunications*
- ***elektrotechnika*** *Electrical Engineering*
- ***energetyka*** *Power Engineering*
- ***fizyka medyczna*** *Medical Physics*
- ***fizyka techniczna*** *Technical Physics*
- ***geodezja i kartografia*** *Geodesy, Surveying and Cartography*
- ***geofizyka*** *Geophysics*
- ***górnictwo i geologia*** *Mining and Geology*
- ***informatyka*** *Computer Science*
- ***informatyka i ekonometria*** *Information Technology and Econometrics*
- ***informatyka stosowana*** *Applied Computer Science*
- ***inżynieria akustyczna*** *Acoustic Engineering*
- ***inżynieria biomedyczna*** *Biomedical Engineering*
- ***inżynieria ciepła*** *Heat Engineering*
- ***inżynieria materiałowa*** *Materials Engineering*
- ***inżynieria mechaniczna i materiałowa*** *Mechanical and Materials Engineering*
- ***inżynieria naftowa i gazownicza*** *Oil and Gas Engineering*
- ***inżynieria obliczeniowa*** *Computational Engineering*
- ***inżynieria środowiska*** *Environmental Engineering*
- ***kulturoznawstwo*** *Cultural Studies*
- ***matematyka*** *Mathematics*
- ***mechanika i budowa maszyn*** *Mechanical Engineering*
- ***mechatronika*** *Mechatronics*
- ***metalurgia*** *Metallurgy*
- ***mikroelektronika w technice i medycynie*** *Microelectronics in Industry and Medicine*
- ***ochrona środowiska*** *Environmental Protection*
- ***socjologia*** *Sociology*
- ***technologia chemiczna*** *Chemical Technology*
- ***teleinformatyka*** *Teleinformatics*
- ***turystyka i rekreacja*** *Tourism and Recreation*
- ***wirtotechnologia*** *Virtotechnology*
- ***zarządzanie*** *Management*
- ***zarządzanie i inżynieria produkcji*** *Management and Production Engineering*

Facts & figures: *● Established in 1913 ● 2169 academic staff ● 36 816 students (35 % women)*

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UST Academic Centre for Materials and Nanotechnology, which is the user of the new building, is creating 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 is also creating 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 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 organized 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.

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. 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.