2025 REPORT

SUSTAINABLE DEVELOPMENT GOALS

THE IMPACT RANKINGS





National Technical University of Ukraine
"Igor Sikorsky Kyiv Polytechnic Institute"

SUSTAINABLE DEVELOPMENT GOALS

Selected positions in THE University Impact Rankings 2025

THE IMPACT RANKINGS

Overall

1001-1500

*out of **2,526** universities*
*from **130** countries*

Ukraine

in range **4-14**

*out of **55** universities*

Top positions

SDG #6 Clean Water and Sanitation

Overall: 401-600

Ukraine: 2

*out of **17** universities*

SDG #7 Affordable and Clean Energy

Overall: 301-400

Ukraine: 1

*out of **24** universities*

SDG #8 Decent Work & Economic Growth

Overall: 601-800

Ukraine: 10-16

*out of **39** universities*

SDG #17 Partnerships for the Goals

Overall: 401-600

Ukraine: 1-2

*out of **58** universities*



OVERCOMING POVERTY

Overcoming poverty in all its forms and everywhere

109 low-income students receiving financial aid

Social payments to orphans and persons from among them amounted to UAH11.9 million in 2025, 1,763 social scholarships totalling UAH26.5 million, financial aid upon applications – about UAH300,000.

Scholarship support from partners

In 2025, new partner companies joined the support effort, incliding international ones:

– NZIA ConnectInc granted scholarships to 4 students for a total of $2,000.

– Simulmedia Inc LLC – to 2 students and 2 PhD students in the amount of UAH498,000.

– PROFINSTAL LLC – UAH64,000 to 4 students.

- Benefactor Yaroslav Baklan contributed UAH104,352 to 2 students.

– Charitable foundation (CF) GENESIS FOR UKRAINE - UAH 1,082,400 to 33 students who are war veterans.

– CF KYIV SCHOOL OF ENERGY POLICY granted one-time paid scholarships to 7 students in the amount of UAH 181,380.

The amount of commercial scholarships totalled some UAH3.18 million

Discounts on dormitory accommodation fees

Kyiv Polytechnic operates a system of discounts on dormitory accommodation fees, particularly for the following categories:

orphans and children deprived of parental care;

children of those who perished, as defined in part one of Article 10-1 of the Law of Ukraine "On the Status of War Veterans and Guarantees of Their Social Protection";

children registered as internally displaced persons;

children of persons established to have been deprived of personal liberty as a result of the armed aggression against Ukraine, etc.

Policies in force (approved in 2023):

Igor Sikorsky Kyiv Polytechnic Institute's policy to support socially disadvantaged students and others involved in the educational process;

Policy to engage with the local community to improve health and welfare systems, including programs for displaced persons or refugees.

ZERO HUNGER
End hunger, achieve food security and improved nutrition, and promote sustainable agriculture

Promoting sustainable agriculture



The international conference "**Partnership as a tool for exporting local products from rural areas of Ukraine**" was held on 28 April 2025 at Igor Sikorsky Kyiv Polytechnic Institute together with Tallinn University and the Estonian Centre for International Development.

Purpose of the event: raising awareness of partnerships as a tool for exporting local products from rural areas of Ukraine under martial law and postwar recovery; establishing cooperation between Ukrainian and Estonian specialists; forming a professional networking community on rural development to discuss and address current challenges.

Food safety policy and access to food at Kyiv Polytechnic



Igor Sikorsky Kyiv Polytechnic Institute has introduced a comprehensive set of measures to ensure food safety for students, staff and cadets.

The University strives to provide affordable and sustainable nutrition. Cafeterias serve a wide selection of dishes, including vegetarian and vegan options, prepared from seasonal products without excessive use of processed ingredients.



GOOD HEALTH AND WELL-BEING
Ensure healthy lives and promote well-being for all at all ages

Number of graduates in medical professions

32 + **2** PhD students (total number of graduates – **5,728** + **66** PhD students)

Assistance for health and recreation was provided to the sum of UAH 41.5 million;

Opening of the Innovation Complex



On 20 May 2025, an Innovation Complex was opened as part of the Additive Technologies Science Park Sikorsky Challenge and the Educational and Innovation Centre for Prosthetics and Rehabilitation. It is:

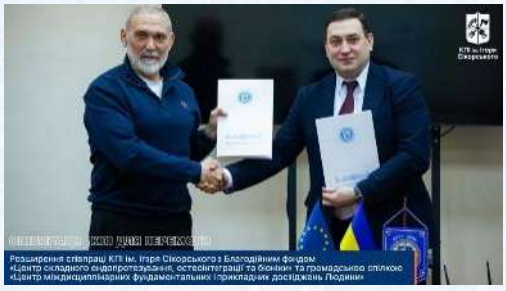
- a modern and inclusive space for the development of additive technologies and biomedical engineering, R&D, startups and new technological solutions;
- laboratories equipped with 3D-printing, scanning and modelling devices.

Unconquered Tournament 2025

On 5 June 2025, competitions in support of the Armed Forces of Ukraine - the "Unconquered Tournament" - were held on the large football field of the Kyiv Polytechnic's Sports Complex.



Memorandum of cooperation



A memorandum of cooperation was signed between Igor Sikorsky KPI, the Charitable Foundation "Centre for Complex Endoprosthetics, Osseointegration and Bionics" and the Public Union "Centre for Interdisciplinary Fundamental and Applied Human Research", which stipulates that:

- the signatories shall engage in rehabilitation, endoprosthetics and mental health;
- they shall provide professional psychosocial support to those affected by extremely severe conditions (phantom pain, concussions, PTSD, speech disorders), returning them to a full life.

GOOD HEALTH AND WELL-BEING
Ensure healthy lives and promote well-being for all at all ages

Social and psychological work

The Department of Social and Psychological Work - Student Social Service provides comprehensive support to students, aimed at preserving mental health, social adaptation, prevention of crisis states and developing a culture of mutual support within the university community.

In 2021-2025, department operations were significantly transformed due to the full-scale war, which entailed: a rise in the number of requests for psychological help; more complex requests (anxiety, depressive states, experiencing loss, chronic stress); an expansion of support formats - from individual counselling to group and social support.

In 2025, more than **700** psychological consultations were held. They included: chronic anxiety; emotional exhaustion; difficulties with concentration and study motivation; experiencing loss and uncertainty; problems with interpersonal communication under prolonged stress.

More than **50** events were held in various formats: productivity and self-organisation trainings; trainings on communication in wartime; resource groups; Donor Days; and outreach volunteer initiatives.

Where Kyiv Polytechnic students and staff can receive medical aid

Igor Sikorsky KPI is elaborating three options to render the university's students and staff medical services. First, cooperation with the Kyiv City Student Polyclinic. Second, engaging a private medical clinic that will operate on the premises of the Kyiv Polytechnic's Student Polyclinic on Yangel Street. Third, creating the "KPI Health" educational and research wellness complex at the Department of Biomedical Engineering of the Faculty of Biomedical Engineering.

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International cooperation in health care

Vlastimil Valek, Deputy Prime Minister and Minister of Health of the Czech Republic, as well as top officials of the country's state authorities, particularly the Ministry of Health, visited the university on 1 April 2025 .



Discussed were: future joint projects in biomedical engineering; establishing rehabilitation centres; introducing digital technologies to improve the quality of medical services; and programmes on biosafety and biosecurity.

QUALITY EDUCATION

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

6,915 students begin their full-time equivalent studies, including **231** students from first-generation families

20,800 students are enrolled for **115** bachelor's, **133** master's, **50** Ph.D. degree programmes

Accreditation of educational programmes

In 2025, **15** degree programmes were fully accredited under the complete procedure (9 bachelor's, 5 master's and 1 PhD; one of the bachelor's programmes was accredited with the designation "**exemplary**"); **3** bachelor's degree programmes underwent international accreditation by the Romanian Agency for Quality Assurance in Higher Education. In total, the university has had NAQA-accredited **257** degree programmes accounting for 90% of their total number.

The Kyiv Polytechnic Library: academic resilience

154,690 visits, **352** events

- Safe access to electronic resources
- Energy independence CLUST SPACE and the 3rd-floor hall
- 4 freely available PCs AppleiMac with programming software: Python, Visual Studio Code, Xcode
- Stable Wi-Fi



Bilka + MacPaw AI Lab



CLUST SPACE

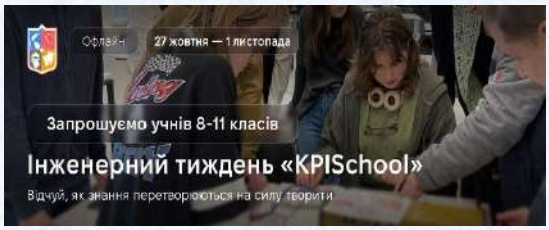
Institute for Postgraduate Education

In 2025, professional development at the Institute for Postgraduate Education was completed by **510** members of our teaching staff, **132** completed internships at leading domestic scientific, educational and industrial institutions, and another **210** members teaching staff did so abroad.

Engineering Week KPI School 2025

is always a unique tour through the world of modern engineering: with lectures, masterclasses, experiments and an introduction to the professions that create technologies and change the world.

15 faculties and educational-research institutes took part in the autumnal KPI School 2025.



QUALITY EDUCATION

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

Events open to the general public

15 February 2025 saw **Open Doors Day KPI AbitFest**



Events at the Kyiv Polytechnic Scientific and Technical Library: book presentations, cultural meetings, discussion clubs and lectures in the smart shelter CLUST SPACE and reading rooms.



On 25-28 February 2025,, the 2nd round (final) of the competition "**Eco-Techno Ukraine 2025**" took place at Kyiv Polytechnic. This competition is the national stage **Regeneron ISEF 2025** of the prestigious International Science and Engineering Fair in the USA for school students of 9–12 grades of general secondary education.

120 participants, 92 members of the jury (80% from KPI), 15 mentors, and 18 volunteers took part in the event, .

The finalists competed in 10 categories: Biomedical Engineering (ENBM), Computational Biology and Bioinformatics (CBIO), Embedded Systems (EBED), Power Engineering: Sustainable Materials and Design (EGSD), Engineering Technology: Statics and Dynamics (ETSD), Materials Science (MATS), Mathematics (MATH), Physics and Astronomy (PHYS), Robotics and Intelligent Machines (ROBO), Systems Software (SW), and Technology Enhances the Arts (TECA).

Popularising physics!



Students in grades 10-11 of secondary schools carry out physics lab work at Igor Sikorsky KPI - a pilot project involving four faculties and institutes: MMI, FTI, FEL, FMF.

The pilot project was carried out with students of Lyceum No. 142 in Kyiv. The lab work was arranged according to the lyceum's curriculum and the university's available laboratory facilities.

In 2025, professional development at the Institute for Postgraduate Education was completed by **510** members of our teaching staff, **132** completed internships at leading domestic scientific, educational and industrial institutions, and another **210** members teaching staff did so abroad..

GENDER EQUALITY
Achieve gender equality and empower all women and girls

125 first-generation learners are (full-time equivalent – FTE) female students

2,439 FTE students are female

The university **systematically monitors** gender distribution in student applications and enrollment.

In 2025, **37,825** applications **for admission to KPI were submitted**, **15,025** (**40%**) of applicants being women and **22,800** (**60%**) being men.

Kyiv Polytechnic enrolled 6,746 students, including **2,460** (**36.5%**) women, **4,286** (**63.5%**) men.

Of **1,878** FTE senior academic staff, **851** are female

1,890 + **10** (postgraduates) graduates in such subject areas as natural sciences, technology, engineering and mathematics (STEM), medicine, arts, humanities, and social sciences are female

The following policies are in good progress: (approved in 2023)

Policy on equality,, diversity and inclusion of (EDI)
Igor Sikorsky KPI;

and the "Action Plan for implementing gender equality principles in the practice of Igor Sikorsky KPI until 2027"

"Perspektywy Women in Tech Summit 2025"

is one of the largest events in Europe dedicated to the role of women in technology, science and innovation. Participants had the opportunity to attend presentations by leading global speakers, including representatives of such companies as Google, Microsoft, Intel, as well as leading scientists and entrepreneurs.

For many participants, this summit became a source of inspiration and motivation for further development in STEM.



GENDER EQUALITY
Achieve gender equality and empower all women and girls



A graduate of the PhD programme at KPI, Oksana Hryhorieva, is a gender adviser to the Ukraine's Armed Forces command

The Kyiv Polytechnic women's team won the cyber competition



- they took **first place** in the cyber competition "**CTF for Women**", which was held in early September on the initiative of the National Coordination Centre for Cybersecurity under the slogan "Women's Path in Cybersecurity: Stories, Challenges, Success".

The stated goal of the event is to strengthen the role of women in cybersecurity.

Social and psychological work

The Department of Social and Psychological Work - Student Social Service provides comprehensive support to students, aimed at preserving mental health, social adaptation, prevention of crisis states and developing a culture of mutual support within the university community.

In total, in 2025 more than **700** psychological consultations were held on requests, which included:

- chronic anxiety;
- emotional exhaustion;
- difficulties with concentration and study motivation;
- experiencing loss and uncertainty;
- problems with interpersonal communication under prolonged stress.

CLEAN WATER AND SANITATION
Ensure availability and sustainable management of water and sanitation for all

Modern Water Technologies Centre

To provide training under the certificate programme "Water and Modern Water Technologies", the Modern Water Technologies Centre was established at the KPI Faculty of Chemical Technology, sponsored by the R&D company "Ecosoft" and the All-Ukrainian NGO of specialists in water treatment "Waternet".

Areas of the Centre's operations: organising training under the certificate programme "Water and Modern Water Technologies"; conducting scientific research on modern processes of water treatment and water purification in the educational-research technology laboratory; testing water quality and water-purification materials in the ion exchange and adsorption laboratory certified by SE "UKRMETRTESTSTANDART"; and publishing the category B professional journal "Water and Water Purification Technologies. Scientific and Technical News".

Kyiv Polytechnic provides free drinking water for students, staff and visitors



The dispenser BTW Aqua (aqua box) has been installed in the university. Owing to a unique mineraliser, it offers water enriched with natural minerals.

Such points allow quick and convenient access to water up to the highest quality standards.



Support for water conservation beyond the campus

– participation in the project "Restoring the Danube through systemic, community-based and sustainable innovative actions" (DaWetRest – Danube Wetlands and flood plains Restoration through systemic, community engaged and sustainable innovative actions), No. 101113015 of the "Horizon Europe" programme – developing and demonstrating (pilot) specific solutions applied in the Danube basin to address the problems faced by inland and coastal wetland ecosystems, namely regarding biodiversity, water quality and availability, climate change resilience and/or neutrality, and socio-economic benefits for local communities.

Consumption of water per person: **17,1** m^3 (**24,444** people, **417 989** m^3 of water), compared with **21,69** m^3 (**21,599** people, **468 562** m^3 of water) in 2024.

AFFORDABLE AND CLEAN ENERGY
Ensure access to affordable, reliable, sustainable and modern energy for all

Total energy use: **32 484** GJ.

Total energy use from low carbon sources: **166** GJ.

Area of university buildings: **554 000** m^2



By Rector's Act of 10 April 2025, the "Programme for Energy Efficiency of Igor Sikorsky Kyiv Polytechnic Institute for 2025-2030" was approved.

Joint efforts for a new generation of energy engineers

Under the strategic partnership memorandum between Igor Sikorsky KPI and the company RSE, a manufacturer of mobile cogeneration solutions based on engines MWM (Caterpillar Energy Solutions), the Energy Resilience Lab was established, which is to be a part of the Scientific and Educational Centre for Energy Decarbonisation and the Energy Innovation Hub of Kyiv Polytechnic. In autumn, it has become an educational and demonstration centre where students, engineers and community representatives learn to create and apply solutions for energy resilience.

Events

From 1 to 4 July 2025, Igor Sikorsky KPI hosted the **10th Anniversary International Conference "Theory and Practice of the Rational Use of Traditional and Alternative Fuels and Lubricants"** with the participation of **220** attendees, including:



20 participants from other countries (Turkey, France, Italy, Canada, the United Arab Emirates, Ireland, Poland, Lithuania, Slovenia, Slovakia, and China); **32** young scientists; representatives of **20** universities of Ukraine, **10** foreign universities, **10** research institutions, particularly the National Academy Sciences of Ukraine, as well as **27** partner organisations of practitioners, including **7** public organisations.

DECENT WORK AND ECONOMIC GROWTH

Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

Events

On 12 November 2025, Igor Sikorsky KPI hosted a large-scale career event **KPI Career beAhead Expo 2025**, that brought together students, university's faculties and institutes, and country's leading employers.

The organisers - staff of the career guidance unit of the KPI Career Development Centre (DNVR) - used in it the best practices of the traditional "Job Fair" and "Profession Fair" events.



A total of 56 companies took part in the event, specialising in IT, military-tech, telecommunications, manufacturing and industry, energy, finance, retail, agriculture, distribution and logistics, science, construction, etc.

On 24 September 2025, **Mechanical Design & Robotics Lab**, created Ajax Systems in cooperation with KPI, was launched to create a full-fledged production ecosystem for training a new generation of engineers. It features:

- 20 workplaces for students;
- a design area with computers;
- a workshop for making prototypes;
- equipment rsnging from lathes and milling machines to robotic systems and measuring instruments;
- a unique opportunity to join masterclasses, practical sessions and internships from Ajax Systems.



5,485 FTE staff

2,083 FTE academic staff

INDUSTRY, INNOVATION AND INFRASTRUCTURE

Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

136.7 million hryvnias
research income from industry and commerce

1,498
Number of academic staff by subject area: natural sciences, technology, engineering and mathematics (STEM) in full-time equivalent

by subject areas:

STEM	**UAH 110.2 million**
Medicine	**UAH 15.9 million**
Arts and humanities / social sciences	**UAH 10.6 million**

The issues and ways of Ukraine's postwar recovery, reconstruction and further development were the focus of the **XIV International Festival of Innovative Projects "Sikorsky Challenge 2025"**, which took place at Igor Sikorsky KPI from 28 October to 2 November 2025.



126 applications were submitted to the competition; the finalists included **87** projects (among the finalists were **18** entrepreneurs and **25** school students) in 5 sections: 1 – "Aviation, space, defence and security" - 28 tech developments; 2 – "Energy resilience and security, environmental safety, 'green' chemistry" - 8; 3 – "Biomedical engineering and human health" - 16; 4 – "Digital country, industrial hi-tech, agritech" – 11; 5 – "Sikorsky Challenge Junior" (the youngest participants - school students – competed n it) - 24.



INDUSTRY, INNOVATION AND INFRASTRUCTURE

Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

The Regulation "**On the Scientific Schools of Igor Sikorsky KPI**" was elaborated and approved, regulating the work of 13 founding scientific schools and 67 modern scientific schools.

Applications submitted for projects under the programmes: Horizon Europe – **60**; Erasmus+ – **33**; NATO SPS – **21**; under other international programmes - **73** applications.

In 2025, Kyiv Polytechnic scientists carried out and won **67** international projects: Horizon Europe – **7**; NATO SPS – **10**; Erasmus+ – **11**; other programmes, including bilateral ones - **39**.

Recognition of the achievements of Kyiv Polytechnic **scientists.**



By Ukrainian Presidential Decree No. 861/2025 of 27 November 2025, the laureates of the **Borys Paton National Prize of Ukraine** were honoured, forming authors' team: Yuriy Bohomol, head of department, Dr. Sc. (Eng.), professor, corresponding member of the NAS of Ukraine; Oleksandra Yurkova, professor, Dr. Sc. (Eng.); and Yevhen Solodkyi, associate professor, PhD (Eng.), senior researcher, for the work "**Technologies for Manufacturing Structural Elements of Advanced Equipment from Powders**";

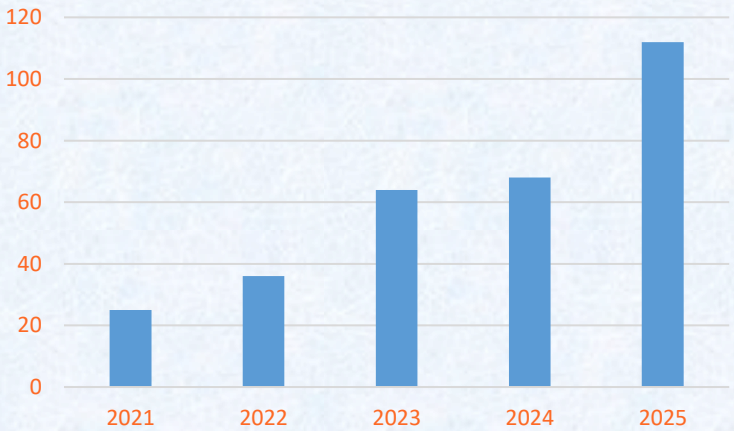
Prof Valeriy Danylov, Dr. Sc. (Eng.), for the work "**Assessment and Optimisation of Security Risks for Critical Infrastructure**".

Igor Sikorsky KPI is the leader among Ukrainian universities in intellectual property, according to data from the Ukrainian National Office of Intellectual Property and Innovation (UKRNOIVI):

- It submitted **112** applications, including inventions, utility models, industrial designs, trademarks and copyright objects;

• it ranked **1**st among higher education institutions within the jurisdiction of the Ministry of Education and Science of Ukraine, in terms of the highest inventive activity.

Trends in applications for inventions and utility models filed in 2021–2025





REDUCED INEQUALITIES
Reduce inequality within and among countries

	Students	*Academic staff*
Total number (FTE)	**20,800**	**5,485**
Number of people with disabilities (FTE)	**93**	**66**
Number of international students from developing countries (FTE)	**18**	

War Veterans' Policy.

The Educational and Research Laboratory of Prosthetics, Medical Rehabilitation and Occupational Therapy was opened at Igor Sikorsky KPI, supported by the Ukrainian product IT company Appflame and the *Genesis for Ukraine* Foundation.

The laboratory was established within the project "The Future of the Prosthetics System in Ukraine: Veterans' Master's Program at KPI", which is intended to reintegrate war veterans into civilian life through mastering engineering professions in prosthetics in the specialisations:

«Biomedical Engineering" - the certificate programme "Medical and Engineering Technologies in Prosthetics";

"Applied Mechanics" - the certificate programme "Additive Technologies in the Manufacture of Prostheses".

In 2025, 33 veterans began master's studies in both specialisations. Each participant received a study grant and a scholarship of $200/month throughout their master's studies.

Events

• From 1 January 2025, veterans were able to use the swimming pool of the KPI Sports and Health Complex owing to the launch of the Ministry of Veterans' "veteran e-sports" programme.

• **The Veteran Development Centre of Igor Sikorsky KPI** , together with the "Veterans - the Way Home" movement and the UK-Ukrainian team "Hopeful Future" implemented, on 12-14 November 2025, a 3-day recovery programme for veterans "A Reliable Future" - an innovative moral-recovery programme based on the peer-to-peer principle.



REDUCED INEQUALITIES
Reduce inequality within and among countries

Igor Sikorsky KPI runs study programmes, trainings and activities aimed at improving access to basic social, educational, medical and psychological services for both students and members of the local community through targeted social programmes, specialised educational tracks and the work of internal services.

Key programmes and areas of study

• **Inclusive education ("Education Without Limits")**: The university runs a programme to develop inclusive education. It ensures the availability of quality educational services for people with special educational needs, including the adaptation of the campus infrastructure and digital resources.

• **Professional training in the provision of social services**: the Faculty of Sociology and Law offers specialised educational programmes, such as "**International Social Projects and Volunteering**" (specialisation "Social Work") and "**Conflict Resolution and Mediation**". They train specialists who professionally ensure access of vulnerable groups to basic services.

• **Rehabilitation educational programmes**: Kyiv Polytechnic trains specialists in "**Therapy and Rehabilitation**" (particularly physical therapy and occupational therapy). Under these programmes, students and teachers are engaged in creating and improving community's access to physical recovery services.

- Student Social Service trainings: The Service regularly holds free awareness events, webinars and trainings on psychological support, disease prevention, first pre-medical aid and social adaptation for internally displaced persons (IDPs).

Development of inclusive education at Igor Sikorsky KPI

- The **Regulation "On the Organisation of Inclusive Education at Igor Sikorsky KPI“ has been enacted.**

- A Working Group **on inclusive educational environment and digital education was formed**.

• To get psychological support, students can contact the **KPI Student Social Service** and receive professional counselling from a psychologist.

- Kyiv Polytechnic participates in the work of the **National Council on Digital Accessibility under the Ministry of Digital Transformation of Ukraine**, where, together with representatives of the Government and relevant organisations, it strategically addresses urgent issues of creating equal access to technology for all Ukrainians, analysing existing and developing new software for people with disabilities.

- In 2025, **the equipment** several inclusive restrooms in building No. 1 and building No. 7 was completed, a folding indoor ramp was purchased and handrails installed for the ramp at the entrance to the Hryhorii Denysenko Scientific Technical Library.

SUSTAINABLE CITIES AND COMMUNITIES

Make cities and human settlements inclusive, safe, resilient and sustainable

The following academic disciplines on sustainable development issues are taught at Igor Sikorsky KPI:

- Fundamentals of Sustainable Development Engineering and Technology,
- Sustainable Global Transformation in the Context of Society 5.0,
- Sustainable Innovative Development,
- Foundations of Sustainable Development,
- Sustainable Development of Urban Ecosystems,
- Energy Efficiency and Smart Buildings,
- Green Entrepreneurship.

Within these disciplines, students gain knowledge about sustainable development and tools for improving energy efficiency; the regulatory framework of energy management, energy audit and energy efficiency; designing building stock, taking energy-efficiency requirements into account, and green construction; efficient energy sources and intelligent technologies in smart buildings.

The inaugural *ESG-REBOOT: education, engineering and ecology* conference was held at Igor Sikorsky KPI as part of the cooperation with ESG Liga PAEW and the Office of Sustainable Solutions.

Students were introduced to the real cases of applying ESG principles and given practical advice.



ESG principles (Environmental, Social, Governance) are a set of characteristics of company management that achieve the company's involvement in solving environmental, social and governance issues.

The Centre for Culture and Arts of Igor Sikorsky KPI



In 2025, the number of events totalled **77**, including:

concerts and performances - **39**, choreographic festivals and championships - **17**, student events and conferences - **9**, art exhibitions - **12**.

UAH48.5 million

spent on arts and heritage

SUSTAINABLE CITIES AND COMMUNITIES

Make cities and human settlements inclusive, safe, resilient and sustainable

Ukrainian-Polish Experience in Crisis Response

From 18 to 19 November 2025, Igor Sikorsky KPI hosted the international scientific and practical conference "Resilient Communities – Stable Future: Ukrainian-Polish Experience in Crisis Response",

dedicated to current challenges to the functioning of socio-economic systems, promoting the sustainable development of local communities and implementing effective models of crisis response.

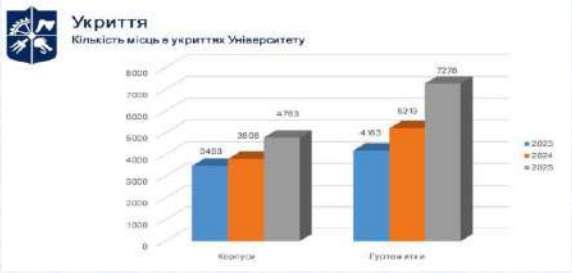
The event took place under the NATO's *Science for Peace and Security* programme, project G6119 "Increasing the Capacity of Local Communities to Counteract Crisis Situations", in which Kyiv Polytechnic acts as a partner institution.

Conference topics included "Ukrainian realities regarding society's ability to counter crises", "A resilience model: how Polish municipalities adapt to new challenges", "Good governance and digital resilience of communities", and "Data science for countering threats to community development".

The second summer school "**Shaping urban environments for tomorrow**" took place from 7 April 2025, bringing together proactive students, researchers and experts on sustainable development, urbanisation and ecology.



The programme included informative lectures, development of sustainable approaches to the modernization of recreational complexes in the Carpathians, reducing their environmental impact and integrating them into the local community.



The development of safe infrastructure and shelters continues

As of December 2025, the number of places in shelters amounted to **4,783 in academic** buildings and **7,278** in dormitories.

RESPONSIBLE CONSUMPTION AND PRODUCTION

Ensure sustainable consumption and production patterns



2,411.471 tonnes of waste generated (including **853.53** tonnes of solid household waste)

2,405.658 tonnes of waste recycled

5.768 tonnes of waste sent to a landfill, with Kyiv Polytechnic sending mixed solid household waste to a specialised company for sorting and further disposal of the remains.

All other types of waste are collected and accounted for separately.

Results of food waste monitoring at Student Catering Centre in 2025

All products of the cafeterias at the Student Catering Centre, ranging from soups to baked goods, are daily sold out, therefore there are no leftovers of prepared food. Food waste is generated only during the primary processing of vegetables (peeling, trimming, and sorting).

Potatoes account for the largest share of waste — over half of the total volume, followed by cabbage and carrots. These items are a priority in terms of measures to reduce losses during primary processing.

Main items according to the monitoring results: potatoes - 0.4006 t, cabbage - 3.64 t, beetroot - 1.18 t, carrots - 1.63 t, onions - 1.04 t, cucumbers - 0.044 t, tomatoes - 0.08 t. The amount of waste totalled 18.022 tonnes at the Student Catering Centre.

A joint memorandum has been signed

between Kyiv Polytechnic and the NGO "Ukrainian Association of Humanitarian Demining", which unites a wide range of mine-action operators, manufacturers and other organisations related to this field. Under this memo, we have launched bachelor's and master's training on the basis of specialisation 183 (G2) Environmental Protection Technologies to equip a new generation of engineers who will restore Ukrainian lands.



A number of important initiatives in humanitarian demining are also planned, in particular:

- new fundamental and applied research;
- development, testing and evaluation of mine-action equipment;
- organising competitions and festivals to promote innovative technologies;
- organising professional upskilling programmes;
- joint information, scientific and educational events, seminars, trainings and workshops for Kyiv Polytechnic students.

The following policies are in good progress (approved in 2023):

Igor Sikorsky KPI Policy on the sustainable development of the procurement system

Igor Sikorsky KPI Policy on environmental protection

RESPONSIBLE CONSUMPTION AND PRODUCTION
Ensure sustainable consumption and production patterns

Technologies for monitoring, conserving and using water resources sustainably

The Department of Information Systems and Technologies at Igor Sikorsky KPI develops intelligent cyber-physical systems, unmanned aerial vehicles and specialised software for the automated monitoring of lakes, rivers, reservoirs and sea areas, as well as presents these solutions at international technology events. The department's scientific and technical work is aimed at resolving the problem of prompt, safe and reliable collection of environmental data in hard-to-reach or dangerous zones, replacing inefficient and risky manual control methods.

The unmanned systems created by department's scientists and students enable a transition to environmentally safe technologies for studying the aquatic environment in the following areas:



- Implementing the zero harmful emissions concept (Zero Emission)
- Preserving the integrity of bottom sediments and the shoreline
- Minimising acoustic pollution
- Rapid localisation of pollution sources

The developed systems and software solutions are intended for use in the following fields:

- state environmental monitoring, control and supervision (State Environmental Inspectorate of Ukraine, State Agency of Water Resources of Ukraine);
- research in hydrology, hydrobiology, ecology and the study of climate change impacts on aquatic ecosystems (research institutes, environmental organisations, protected areas, private environmental laboratories);
- municipal utilities (water supply and sewerage enterprises, and water utilities);
- fisheries, aquaculture and agriculture (water quality control over irrigated farming and commercial fishing);
- industrial monitoring and inspection of critical infrastructure facilities (hydroelectric, nuclear and thermal power plants, dams, pipelines, metallurgical and chemical complexes);
- elimination of the consequences of man-made and natural emergencies, and engineering reconnaissance of water obstacles (State Emergency Service of Ukraine, engineering troops and CBRN protection units of the Armed Forces of Ukraine).

CLIMATE ACTION
Take urgent action to combat climate change and its impacts

KPI Energy Innovation Hub: a year of achievements, new opportunities



- The young team of the Energy Decarbonisation Centre (which includes the Energy Innovation Hub) won a competition of youth research projects and received funding to carry out the project "Developing a set of recommendations for renovating historic buildings to achieve nZEB targets based on energy modelling".
- A digital scan of the Hub space was carried out to create a BEM-model.
- A demonstration stand was received from the HERZ company.
- The project "Development of an intelligent low-temperature building heating system based on a condensing modular boiler house" was completed. A prototype of an intelligent condensing modular boiler unit was installed in the Centre within this project.
- Modern equipment for energy audit was received from GIZ partners within the project "Engaging girls and women in the energy-efficient recovery of Ukraine through energy-efficiency trainings", implemented by the NGO "International Development Foundation". The installed stands and equipment are used in the educational process.

Monitoring of greenhouse gas emissions at KPI

The main purpose of calculating greenhouse gas emissions is to observe clause 10 of the Environmental Protection Policy of Kyiv Polytechnic, approved by Law No. NOD/713/24 of 3 October 2024 and by Rector's Act No. RP/362/24 of 3 October 2024, to achieve the Sustainable Development Goals on climate change.



Table: Scope 1 and 2 total emissions

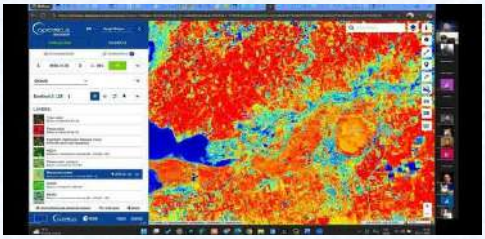
Year	2021*	2022	2023	2024	2025	2030*
Emissions, t CO2e/year	17,745.71	13,126.02	14,071.56	10, 028.51	13,780.631	12, 421.994*
Percentage emission reduction compared with the base year	–	26.03	20.7	43.49	22.34	30

* 2021 is the base year, 2030 is the fixed target year, 12,421.994 is the target emission level.

CLIMATE ACTION
Take urgent action to combat climate change and its impacts

Kyiv Polytechnic informs and supports local/regional authorities in terms of early warning and monitoring of climate-change disasters/risks

On 5 November 2025, Sergii Gapon (World Data Center for Geoinformatics and Sustainable Development) delivered the presentation themed "**Spatial data analysis and artificial intelligence in strategic territorial management**"during the seminar "Current scientific research and its prospects" held at Kyiv Polytechnic.



In particular, the report presented a distinct approach developed using tools for researching complex socio-economic systems (within the R&D project "A land-cover monitoring system for the strategic management of Ukraine's territories under multiple military threats"), as well as tools for identifying changes in land-cover types for spatial analytics tasks.

Ukraine on the path to carbon neutrality

Kyiv Polytechnic participates in the project U_CAN undder the Horizon Europe programme (HORIZON-MISS-2023-CIT-02-01 – Engaging Ukrainian cities in the mission "Climate-Neutral and Smart Cities"), which promotes a practical "bottom-up" approach to achieving climate neutrality by Ukrainian cities.



In line with European standards and the European Green Deal (EGD), the project starts with a pilot group of 8 Ukrainian cities, Dresden as a mission city, non-governmental organisations and research institutions, and aims to tackle the current problems of Ukrainian cities and their key sectors.

LIFE BELOW WATER
Conserve and sustainably use the oceans, seas and marine resources for sustainable development

Deepening cooperation with Germany in bioenergy for environmental protection

Thanks to international partnership and the implementation of large-scale projects, particularly the development partnership "Ukraine Energy Autark» together with the German company Bio-H2 Umwelt GmbH, supported by GIZ and the German ministry BMZ, the Department of Bioenergy, Bioinformatics and Environmental Biotechnology at Igor Sikorsky KPI is proactively developing technologies for wastewater treatment, recycling of household and industrial waste, and bioenergy that reduce human pressure on the environment, protecting the natural habitats of plants and animals. This initiative realises several sustainable development goals at once. In particular:

- July 2025: participation in the Summer Academy of the Bavarian State Office for Environmental Protection in the German city of Hof, together with the Institute of Sustainable Water Management of the Hof University of Applied Sciences, as well as specialists from the Kyivvodokanal public utility, water resources and WWF-Ukraine, on modern management of water and natural resources.



- November 2025: Kyiv Polytechnic hosted the IX International Scientific and Practical Conference "Clean Water. Fundamental, Applied and Industrial Aspects", dedicated to the 25th anniversary of the Faculty of Biotechnology and Biotechnics. Over 100 scientists from six countries discussed advanced environmental solutions for protecting aquatic ecosystems. One of the co-organisers was the Hof University of Applied Sciences.



- November 2025: Ukrainian specialists served their first international internship in the German city of Jena, dedicated to studying biogas production technologies and mastering German standards VDI and adapting them to the Ukrainian market in order to reduce the environmental burden from waste.



LIFE ON LAND

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation, and halt biodiversity loss

For the benefit of nature and its development



Every year, the Kyiv Polytechnic's library, in cooperation with university units, carries out a planned collection of waste paper - printed materials that have lost their relevance, have no value or are physically worn out.

Since May 2025, 6,589 kilograms of waste paper have been collected. The collected recyclables were handed over for recycling to the Vtorresursy No. 3 LLC under the current contract .

Proceeds from the sales go to a special fund of Kyiv Polytechnic intended for the needs of the educational process and infrastructure development.

This initiative directly contributes to achieving the UN Sustainable Development Goals:

SDG 4: Quality education - updating library collections provides access to relevant, high-quality knowledge;

SDG 12: Responsible consumption and production - reuse of resources and reduction of waste;

SDG 13: Climate action - by reducing waste and conserving natural resources;

SDG 15: Life on land - by protecting, restoring and promoting the sustainable use of terrestrial ecosystems, and sustainable forest management.

Events to landscape the university campus, in particular:



maples, lindens and thujas donated by the National University of Life and Environmental Sciences of Ukraine (NULES) were planted in the Unconquered Park, together with NULES colleagues;

donated by university's partners, sakura trees were planted at the entrance to the KPI park near the Politekhnichnyi Instytut metro station,.

The Igor Sikorsky Kyiv Polytechnic Institute's Environmental Protection Policy **is in effect (approved in 2023).**

PEACE, JUSTICE AND STRONG INSTITUTIONS

Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

Work with the government, state institutions, participation in committees



- 25 February 2025. KPI Rector Anatolii Melnychenko was included in the Administrative Committee of the National Council of Ukraine for the Development of Science and Technology. This is an advisory body under the Cabinet of Ministers of Ukraine that supports the formulation and implementation of state policy in science.

• By Act of the Ministry of Education and Science of 2 April 2025 No. 535, the KPI representative and head of a department Prof Oleh Chertov was appointed as head of the F1 "Applied Mathematics"subcommission of the Scientific and Methodological Commission at the Ministry of Education and Science of Ukraine.

On 16 May 2025, the Higher School of Public Administration, the National Agency of Ukraine for Civil Service Affairs and Igor Sikorsky KPI signed a Memorandum of Cooperation, which sets cooperation priorities aimed at carrying out joint scientific projects, programmes and research-educational events, as well as promoting the civil service.

The Memorandum builds on many years of cooperation between the institutions. In particular, the signatories are supposed to jointly organise communication events, conduct sociological research and develop educational initiatives aimed at advancing public administration in the context of digital transformation.

155

Total number of graduates who qualify in law and enforcement-related courses



Policies in effect:

Igor Sikorsky Kyiv Polytechnic Institute's Policy on Stakeholder Engagement in University Development;

University’s Anti-Corruption Policy, Anti-Bribery Policy, and Integrity Development Policy (regular publication of documents on anti-corruption: reports, studies, guidance notes);

The collective agreement between the Administration and the Students' Trade Union Committee for the period from April 2025 to April 2030

The University publishes financial data in open access every year

PEACE, JUSTICE AND STRONG INSTITUTIONS

Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

Drivers of Democratisation

— a joint educational and research project of the Department of Sociology at Igor Sikorsky KPI and YMCA Ukraine has been carried out from 2024 to 2026, supported by the Swedish Institute (a grant of about SEK2 million). The project is intended to deepen the knowledge and develop skills of over 1,000 young people capable of building a resilient democratic society.

In 2025, the project embraced focus-group research among youth activists in several regions of the country, a summer school, and a series of trainings for students and members of YMCA on democratic leadership, mediation, non-violent communication, critical thinking and the prevention of gender-based violence. It is relevant to the problems of peace and justice (SDG 16) because it builds up democratic culture, trust in institutions and peaceful conflict-resolution skills in war-torn Ukraine, and moulds young people's ability to counter discrimination and take part in decision-making, which is the basis of inclusive and accountable institutions.



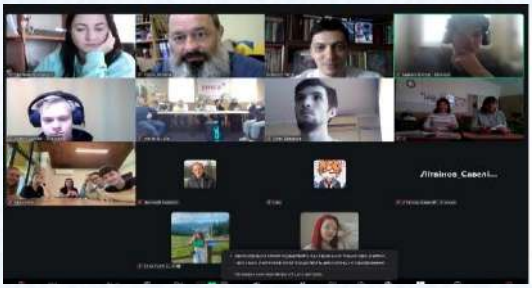
Events under the project:

- On 29 October 2025, a round table was held at the Department of Sociology. The purpose of the event was to strengthen the youth sector as a driver of democratic change in Ukraine.



•An online training took place on 27 September 2025. Important topics were under discussion:

- democratic leadership in a civilc organisation;
- liberal and Christian democracy;
- the "I-statement" technique as a tool for effective communication.



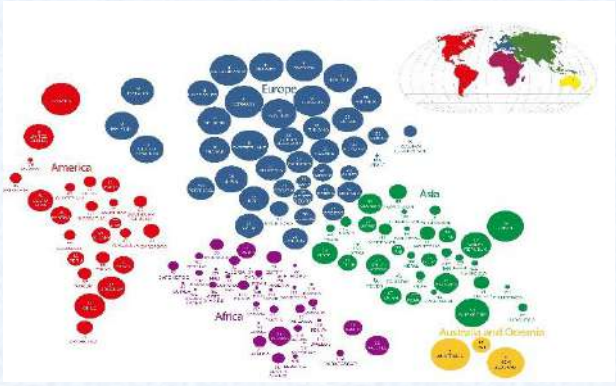
PARTNERSHIPS FOR THE GOALS
Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development

Sustainable development

The World Data Centre for Geoinformatics and Sustainable Development (hereinafter the "WDC-Ukraine") has been operating in Ukraine since 2006 as a full member of the World Data System (WDS) at the International Science Council (ISC). The WDC-Ukraine specialises in interdisciplinary research on complex systems of various kinds, particularly copyright-protected metric-based modelling for measuring sustainable-development processes.

Its work focuses on mechanisms for the Ukrainian scientific community to access ISC's global information resources in the field of Earth sciences, planetary and space physics and related disciplines, as well as on collecting and storing global and regional data for sustainable-development research and administrative decision-making.

It includes: support for decision-making when tackling the long-term problems of societal development in view of sustainability; information support for assessing the prospects, and the implementation of a concept of sustainable development in higher education, business, and policies.



The proposed models take account of three components - economic, environmental and social. The overall quantitative assessment of territories' sustainable development in the context of quality and safety of human life is carried out using the Sustainable Development Index (SDI).

Igor Sikorsky Kyiv Polytechnic Institute cooperates with the following non-governmental organisations to achieve the SDGs:

– Charitable Foundation "Centre for Complex Endoprosthetics, Osseointegration and Bionics";

– Public Union "Centre for Interdisciplinary Fundamental and Applied Research on Humans";

– KOLO Charitable Foundation;

– Professional Association of Environmentalists of the World (PAEW);

- etc.

PARTNERSHIPS FOR THE GOALS
Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development

Scientific and educational Ukrainian-German projects at Kyiv Polytechnic in 2025



In 2025, the German Academic Exchange Service (DAAD) announced the allocation of EUR24 million for a period through 2029 to carry out 29 projects at German higher education institutions under the "German-Ukrainian University Network" programme, which also includes Igor Sikorsky KPI.

Projects that involve Kyiv Polytechnic scientists:

- "A teaching and administration network for dual education and mobility Ukraine - Germany" - with the East Bavarian Technical University (Amberg-Weiden);

- "AI-based automation and control" - with the Clausthal University of Technology;

- "University network "Ukraine in Europe" – with the Justus Liebig University Giessen;

• "Mechatronics, energy, robotics and innovative technologies with Ukraine" and "Microcredentials as a tool of internationalisation for Ukrainian universities" – together with Leibniz University Hannover;

- "Expanding the successful German-Ukrainian educational network" – with the Anhalt University of Applied Sciences.

Expanding cooperation in energy efficiency



Kyiv Polytechnic hosted a trilateral strategic meeting dedicated to analysing current cooperation in energy efficiency and outlining future cooperation between the parties:

- Igor Sikorsky KPI as a scientific and educational centre combining academic expertise, engineering innovation and youth engagement to support Ukraine's energy transformation.

• German Agency for International Cooperation (GIZ) contributes to building up institutional capacity by providing expert support and facilitating the integration of Ukrainian innovations into the European context of sustainable development.

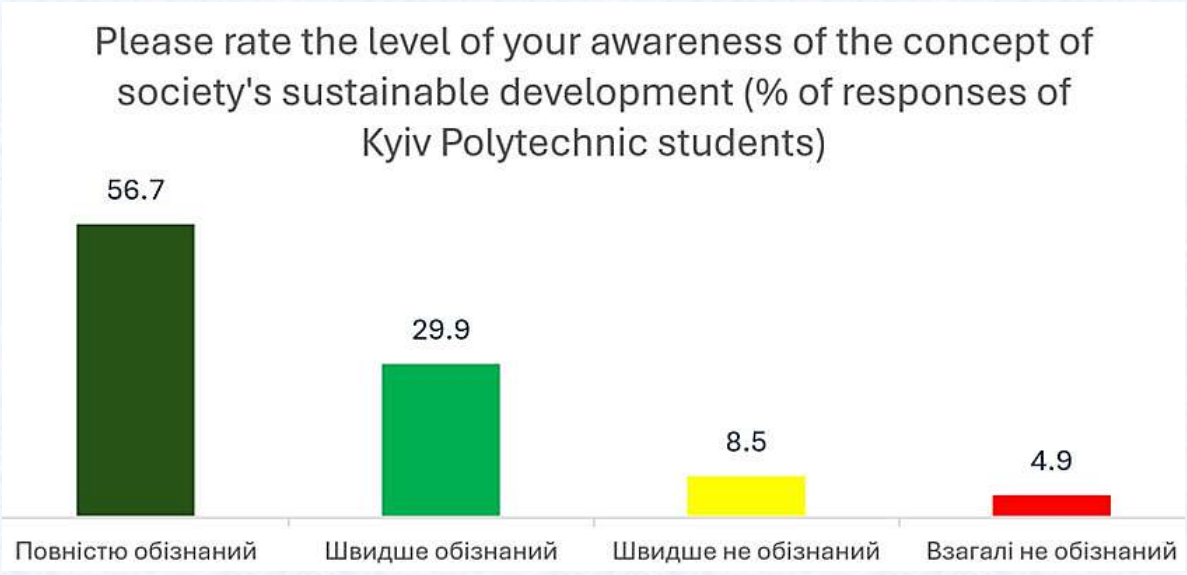
- Fincord-Polytech Science Park serves as a platform for commercialising scientific approaches to innovation in the context of Ukraine's postwar recovery.



PARTNERSHIPS FOR THE GOALS
Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development

Students' literacy level in sustainable development

The mission of Igor Sikorsky KPI is to realise University's scientific, educational and innovative potential to achieve the goals of sustainable development of society, the high-tech transformation of this country, and the strengthening of its defence capability, which defines its public stance and the role it has acquired in Ukraine in terms of the consistent raising of high-quality human capital for the recovery and sustainable development of Ukraine, laying a foundation for developing socially responsible professionals ready to resolve global problems and change the world.



To monitor awareness, specialists of the *SocioPlus* Educational and Research Centre for Applied Sociology conduct an annual online survey among students and teachers, and participation in it is open to the entire university community.

According to the survey conducted in the 2024-2025 academic year, 86.6% of Kyiv Polytechnic students are aware of the concept of society's sustainable development (56.7 all too aware, 29.9 rather aware, 8.5 rather unaware, 4.9 totally unaware). This indicator reflects young people's keen interest in sustainable development, as well as the effectiveness of university's promotion, enlightenment and educational work.

Igor Sikorsky Kyiv Polytechnic Institute has a website dedicated to various aspects of sustainable development (https://sd.kpi.ua/en/).

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Department of Quality Assurance of the Educational Process
Department of Student Development
Case Management Department
Office of Accounting and Reporting

Centre for International Education
Educational and Research Institute of Energy Saving and Energy Management
Faculty of Automation, Industrial Engineering and Ecology
Faculty of Biomedical Engineering
Faculty of Biotechnology and Biotechnics
Faculty of Informatics and Computer Engineering
Faculty of Sociology and Law
Faculty of Chemical Technology
World Data Centre for Geoinformatics and Sustainable Development
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Centre for Student Catering
Centre for Culture and Arts
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