

National Technical University «Kharkiv Polytechnic Institute»

Time-tested Engineering Education and Science of World Level





History of the University

National Technical University «Kharkiv Polytechnic Institute» was founded in 1885.

The University was established according to the program for technical education set up by **Dmitry Mendeleev** as a Practical Technological Institute, with two departments (mechanical and chemical) which could offer training to 125 students.

The organizer and first rector of the institute was **Viktor Kyrpychov**, an honored professor specializing in mechanics and resistance in materials





About NTU «KhPI»

National Technical University "Kharkiv Polytechnic Institute" (NTU "KhPI") today it is one of the leading and largest educational institutions of Ukraine in the field of engineering and technological education.

An important stage in the life of the University became the signing by rector of the updated Magna Charta Universitatum at the University of Lodz (Poland) in 2023.

The University trains specialists in 50 specialties on full-time and part-time basis according to the levels of higher education, in particular the bachelor's degree, the master's degree and doctor of philosophy.

NTU "Kharkiv Polytechnic Institute" includes nine Educational and Scientific Institutes; Research and Design Institute "Molniya"; Research Institute of Ionosphere; Interdisciplinary Institute of Postgraduate Education; Correspondence and Distance Learning Center; Start-up Center "Spark"; Educational Center "Innovation Campus"; Educational Center "German Technical Faculty"; Ukrainian-Turkish Coordination Center for Scientific and Technical Research; Ukrainian-Chinese Scientific and Educational Center; Ukrainian-Arab Cultural and Educational Center.





About NTU «KhPI»

The University carries out a wide program of international cooperation, it concluded cooperation agreements with more than **200** leading institutions of higher education and scientific organizations from 39 countries of the world, actively participates in the most famous international programs and grants. More than **90** educational and research international projects are implemented annually at the university.

More than **15000** students, including about **1100** foreign students from 20 countries of the world, study at NTU "KhPI". The scientific and pedagogical staff of the university counts about **1300** people. More than **220** doctors of sciences and **800** candidates of sciences and PhDs participate in research and personnel training activities.





UNIVERSITY'S RANKINGS

According to the results of one of the most prestigious world university rankings **QS World University Rankings 2025**, National Technical University «KhPI» confirmed its status as one of the best universities in Ukraine and ranked fourth among domestic universities (ranking in the world 1001-1200). The University is in the top 66% of the world's universities evaluated in the ranking.

NTU «Kharkiv Polytechnic Institute» for the 12th year in a row continues to enter the list of the best universities in the world according to the **Times Higher Education World University Rankings (THE WUR)**.

According to the results of THE WUR 2025, Kharkiv Polytechnic entered the **17 higher education institutions of Ukraine represented** in the rating. Of the seventeen criteria by which universities are analyzed, NTU «KhPI» improved its performance in the subjects of «Research Quality» «Industry» and «International Outlook», which led to an increase in its overall assessment.

According to the results of the Times Higher Education World University Rankings (THE WUR) 2025, the National Technical University «Kharkov Polytechnic Institute» took **1501+ place**. In total, THE WUR 2025 includes 2095 universities from 115 countries.



RANKED



1001-1200

National Technical University "Kharkiv Polytechnic Institute"

June 2024

Date


Ben Sowter
Senior Vice-President
QS Quacquarelli Symonds





UNIVERSITY'S RANKINGS



According to the Ministry of Education and Science, NTU «KhPI» is among the best universities in terms of the number of foreign students, ranking third in Ukraine in this indicator (1100 foreigners).

The largest number of foreigners are from China, and there are also students from Azerbaijan, Georgia, Morocco, Turkey and Turkmenistan.

According to THE Online Learning Rankings 2024, National Technical University «Kharkiv Polytechnic Institute» was included in a group of 14 universities in the world that received the world «silver» (16th place) and **first place among the Ukrainian university** with a high-quality on-line education system.

THE Online Learning Rankings 2024 is the first ranking from Times Higher Education that identifies the educational institutions with the best distance learning system and is the world's first indicator of the overall effectiveness of online education at the global level. The ranking was based on the following important criteria: the number and quality of resources for online learning, the level of student engagement and their success.



No	Institution	Country/territory	Tier	Resources score	Engagement score
14	International University of Applied Sciences (IUBH)	Germany	Silver	39.5	58.0
15	King Abdulaziz University	Saudi Arabia	Silver	31.9	50.2
16	National Technical University Kharkiv Polytechnic Institute	Ukraine	Silver	44.8	53.3
17	Pontifical Catholic University of Minas Gerais	Brazil	Silver	24.0	85.3
18	Shoolini University of Biotechnology and Management Sciences	India	Silver	57.5	35.6



Educational and Scientific Institutes of NTU «KhPI»

Educational and Scientific Institute of Energy, Electronics and Electromechanics

Specialties:

Electric power engineering; Electrical engineering and electromechanics; Energy engineering, Thermal energy, electronics and railway transport.



Educational and Scientific Institute for Mechanical Engineering and Transport

Specialties:

Ecology; Applied mechanics; Materials science; Industrial engineering; Renewable energy sources and hydropower; Electronic communications and radio engineering; Environmental protection technologies; Civil security; Automobile transport.



Educational and Scientific Institute of Computer Modeling, Applied Physics and Mathematics

Specialties:

Applied physics and nanomaterials; Applied Mathematics; Computer Science; Electronic communications and radio engineering; Automation, Computer-integrated technologies and robotics; Information and measurement technologies; Micro- and nanosystem technology.



Educational and Scientific Institute of Chemical Technologies and Engineering

Specialties:

Chemical technologies and engineering; Food technologies; Biotechnology and bioengineering; Oil and gas engineering and technology; Pharmacy and Industrial pharmacy.





Educational and Scientific Institutes of NTU «KhPI»



Educational and Scientific Institute of Economics, Management and International Business

Specialties:

Economy; Accounting and taxation; Finance, banking, insurance and stock market; Management; Marketing; Entrepreneurship and trade; Hotel and restaurant business; Tourism and recreation; International Economic Relations.



Educational and Scientific Institute of Social and Humanitarian Technologies

Specialties:

Educational and pedagogical sciences; Pedagogy of high school; Physical culture and sports; Philology; Psychology; Sociology; Social work; Social welfare; Public management and administration.



Educational and Scientific Institute of Computer Sciences and Information Technologies

Specialties:

Applied Mathematics; Software engineering; Computer Science; Computer Engineering; System analysis; Cyber security and information protection; Information systems and technologies; Publishing and printing; National security; Information security management.



Medical Institute of Education and Science

Specialties:

Medicine; Technologies of medical diagnosis and treatment; Pharmacy and industrial pharmacy.



Educational and Scientific Institutes of NTU «KhPI»

Educational and Scientific Institute of International Education

The first admission of foreign citizens at the University was carried out in 1946. The first students of NTU “KhPI” were citizens of Bulgaria and Korea. Since then, students from Asia, Africa, Europe and America have been studying at NTU “KhPI”

Areas of activity of the institute:

- organization of admission of foreign students to NTU “KhPI” for all forms of education;
- organization of work on registration of foreign students in Ukraine;
- organization and control of training of bachelors and masters among foreign citizens in educational and scientific institutes of NTU “KhPI” in licensed specialties;
- cooperation with firms-agents from other countries on the organization of remote admission of foreign students to NTU “KhPI”.

Since 2004, the training of foreign citizens at NTU “KhPI” has been carried out not only in Ukrainian, but also in English in certain specialties and educational programs.





Education Center «German Technical Faculty»



The Education Center "German Technical Faculty" is the only one coordination center for the interaction of NTU "KhPI" with leading German and Austrian universities, and also with the employers and the support funds for students, teachers and scientists.

The educational center provides a unique opportunity for students of all majors to study the German language during the entire period of their studies at the university.



According to the scope of its work, the center performs the following functions:

- Implementing the educational project "German-speaking engineer" that allows the students to learn the German language during their training for the bachelor's degree in engineering specialties;
- Providing students of such fields as electrical engineering and mechanical engineering with the support of the German academic exchange service DAAD, giving an opportunity to continue their studies under the double degree program to defend their master's degree, to take language courses and undergo the production practice at the Magdeburg University Otto von Guericke (Germany) within the framework of the joint DSG educational project;
- Giving the students of such avenues as electrical engineering, mechanical engineering and the chemical industry the opportunity to continue their studies under the double degree program for bachelors at the Otto von Guericke University of Magdeburg (Germany) within the framework of the joint educational project DSG_2;
- Conducting classes for students with an advanced level of the German language skills with a DAAD lecturer;
- Implementing educational and scientific programs and grants for students, teachers and scientists of the university (DAAD, Erasmus+, etc.).



Research activities



NTU «Kharkiv Polytechnic Institute» is one of the leading research centers of the system of higher education in Ukraine.

The scientific potential of NTU "KhPI" is about 220 doctors of sciences and 800 candidates of sciences and PhD. Among the employees of the university are more than 40 academicians and corresponding members of the National Academy of Sciences of Ukraine and the branch academies of sciences.

The scientific schools of the university with their total number of about 40, are recognized in Ukraine and far beyond its borders. First of all, these are schools of the physics of metals and semiconductors, innovative technologies of metalworking, turbine construction, internal combustion engines, dynamics and strength of machines, ceramics and composites, industrial and medical electronics and inorganic chemistry.

The university includes three facilities that have the status of the «National Property of Ukraine»:

- **Research and Design Institute "Molniya". It houses the Center for certification tests of electrical equipment "Impuls", the only one accredited in Ukraine;**
- **Scientific and research center of experimental plants designed for the study of gas-dynamic and thermophysical processes in turbomachines. The center is of important scientific and practical significance for the energy industry of the country due to the unique experimental equipment with great technical capabilities;**
- **Research Institute of Ionosphere of the National Academy of Sciences and the Ministry of Education and Science of Ukraine. The Research Institute of the Ionosphere has a unique observatory with the equipment that puts this Institute in one of the leading places in the world in terms of ionosphere research opportunities.**





Innovation campus of NTU «KhPI» - IT education of a new generation

The students of IT specialties at NTU "KhPI" have a unique opportunity to study and develop real projects at the educational center "Innovation Campus" of NTU "KhPI".

This is a fundamentally new education system that combines the fundamentals of traditional education and a high level of practice. It provides training for the bachelor's degree meeting an international level. The program is designed for 4 years. After the first year of studies at NTU "KhPI, the students undergo a competitive selection to participate in the further project-based training program. The fourth year is devoted to the in-depth studies of subjects, practical training and writing a thesis at NTU "KhPI".

Innovation Campus deals with an innovative educational program developed by a team of Ukrainian IT specialists UNIT Factory in cooperation with NTU "KhPI. This is the first and currently the only project in Ukraine on the basis of a state university that combines IT education, a school of entrepreneurship and co-working. In 2022, the "Innovation Campus" project took second place among the best educational projects in Europe at the QS-Wharton Reimagine Education Awards 2022 International Competition.

The concept of the program is a transition from a declarative learning scheme aimed at the acquisition of knowledge, to a project scheme aimed at acquiring practical skills in creating products and systems. The participants of the Innovation Campus project of NTU "KhPI" can be the entrants that upon entering the university to get the IT specialty can choose as their first priority educational programs (competitive bids) marked as the Innovation Campus.





International activities

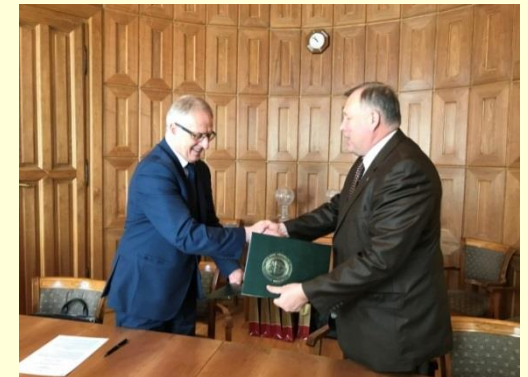


National Technical University «KhPI» carries out a wide program of international cooperation. It concluded cooperation agreements with more than **200 leading institutions** of higher education and scientific organizations from 39 countries of the world, including 20 countries of the European Union, and it is a permanent and full member of the most authoritative academic associations in Europe and the world: **Alliance of Universities for Democracy, European University Association, Black Sea Universities Network, Eurasian Universities Association.**

Participation in international grant programs and projects is one of the priority areas of the activities of NTU "KhPI". More than **70 educational and 20 research international projects** are implemented annually at the university. The university has **15 double degree programs** with universities in Germany, Slovakia, France, Austria, Poland, Czech Republic, Bulgaria, Korea and China that allows our students to simultaneously receive European and world-class diplomas.

NTU "KhPI" actively supports and develops exchange programs of students, postgraduates, teaching staff and scientists participating in international academic exchange programs, grants and scholarships, studies and internships at partner universities of NTU "KhPI", it provides language courses and summer industrial practices for students.

Every year, more than **200 students** of NTU "KhPI" go abroad to study under various programs. Most of these programs are fully funded by the European Union (Erasmus program), the German Academic Exchange Service (DAAD), other international or national funds.





Sport, leisure and creativity

The National Technical University "KhPI" has a modern material and technical base with a developed infrastructure that allows solving social problems, such as providing students and teachers with housing, improving the health and treatment of employees and students

For their studies and leisure time, the students have at their disposal the following:

- **20 educational buildings**
- **15 dormitories for 6,400 places**, four of which are intended for foreign students and one for graduate students. All dormitories have sports halls, rooms for classes and recreation, laundries with modern equipment



- **Modern scientific and technical library with a book fund of about 2 million volumes**



- **The Students Palace with dancing halls and exhibition halls is a potent cultural center of the University**



- **Sports center «POLYTECH», where all conditions are created for conducting classes in more than 30 types of sports. The sports center includes an athletic arena, two swimming pools and 14 sports halls**





Welcome to NTU «KhPI»!



Our address:
NTU «KhPI»
2, Kyrpychova str.,
Kharkiv, 61002, Ukraine
tel.: +38 (057) 707-66-00
fax: +38 (057) 707-66-01
omsroot@kpi.kharkov.ua
www.kpi.kharkov.ua

