

# KHARKIV NATIONAL AUTOMOBILE AND HIGHWAY UNIVERSITY



- founded in 1930;
- since 2001 - national status;
- form of ownership - state;
- the level of accreditation is the highest in the system of the Ministry of Education and Science of Ukraine.
- 6 educational buildings with a total area of 77 102 m<sup>2</sup>educational areas 15575 m<sup>2</sup>
- 6 students dormitories - 2500 places
- 21 sports halls with an area of 2167 m<sup>2</sup>

**During scientific and pedagogical activities, about  
90 thousand  
engineers, bachelors, masters**

# Faculties and specialities

## Automobile Faculty

Automobile transport

Industrial engineering

Power engineering

Applied mechanics

Occupational education

Power industry, electric engineering and electromechanics

## Mechanical Faculty

Software engineering

Computer sciences

Materials science

Automation and computer-integrated technologies

Industrial engineering

Metrology, information and measurement equipment

## Faculty of Business and Management

Economics

Accounting and taxation

Entrepreneurship, trade and exchange activities

## Road-construction Faculty

Construction and civil engineering

Geodesy and land use

Ecology

## Faculty of Transportation Systems

Traffic organization and safety

Transport systems and logistics

Organization of transportation and management at automobile transport



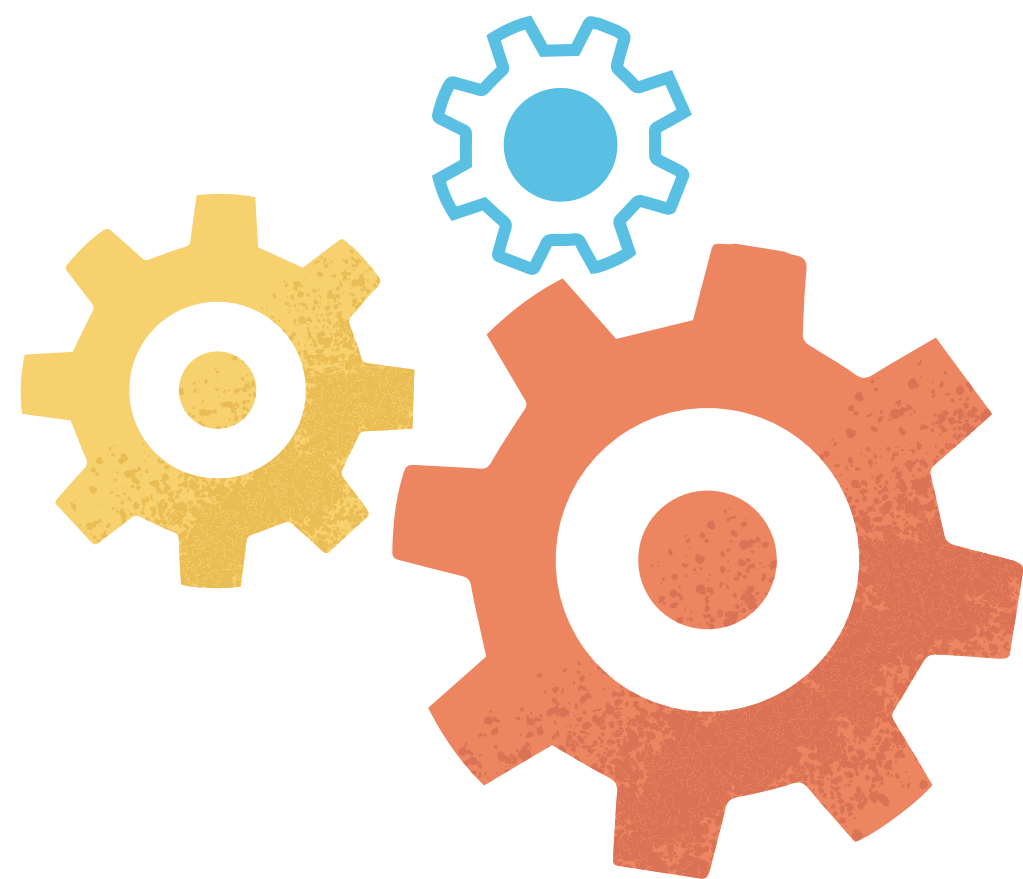
# Academic staff of the university

Total number of lecturers	450
including with degrees and titles	356 (79%)
Academicians and Corresponding Members of the Transport Academy of Ukraine	95
associate professors, candidates of sciences	261
laureates of the state Prize of Ukraine	11
honored scientists and Technicians of Ukraine	12
honored workers of Education of Ukraine and Culture of Ukraine	4
Academicians and Corresponding Members of the Transport Academy of Ukraine	57





# Scientific activities of the University in 2022 year



About 20 scientific directions	
General fund for financing research projects	500 000 \$
Based on research results, published in foreign publications (scientific articles)	260
In the international scientometric databases SCOPUS and WEB OF SCIENCE	160
The university publishes 5 specialized scientific journals of category B	
Total number of graduate students	130
Number of winners of the national competition for student research papers	102
The total number of intellectual property documents (patents, certificates, etc.)	90



# INTERNATIONAL ACTIVITIES

- 52 bilateral international agreements have been signed and are being implemented with universities and enterprises in Germany, USA, China, Lithuania, Latvia, France, Bulgaria, Poland, Georgia, Azerbaijan, Kazakhstan, Moldova, Jordan, Morocco, etc.);
- Participation in double degree programs with European universities;
- Conducting and participating in international scientific and technical conferences (up to 15 conferences annually);
- Participation of students in international exchange programs and projects, internships (DAAD);
- International academic mobility of lectures, scientists and students - annually up to 100 participants;
- Participation in international student competitions, Olympiads, conferences up to 70 participants.
- Invitation of foreign scientists, specialists, lecturers to joint scientific research, lectures, trainings, seminars, joint publications.





# European projects



- KA1 Brandenburg University of technology, Cottbus, Germany
- KA1 Lodz Polytechnic, Poland
- KA1 Dresden University of Technology, Germany
- KA1 Udokones University, Serbia
- KA2: ERASMUS + "CybPhys", grant holder - Riga Polytechnic, Latvia
- KA2: ERASMUS + "CLIMAN", grant holder - Business Academy, the Netherlands





# German-ukrainian center



# DAAD



The program of activities:

- studying the German language, including remotely, with DAAD grants, with German "Sprachassistenten";
- implementation of bilateral agreements with German universities in the cities of Wildau, Wuppertal, Cottbus, Nuremberg, Ansbach, Hannover. (joint research, publications, lectures by German scientists, joint participation in European projects, etc.);
- cooperation with DAAD lecturers (trainings, testing, master classes for Ukrainian students);
- participation in the joint project "Academic Training Network" within the framework of the program of the Bavarian Ministry of Science and Culture "Dual International";
- student trips to German enterprises («Studienreise») on grants from DAAD and other German foundations;
- professional internships for KHNAHU students at German enterprises of the WIRTGEN company (manufacturer of road-building machines);
- participation in trainings of German-Ukrainian academic organizations, as well as in the management of the internationalization of universities.



# Foreign students



- at the university since 1948;
- In total, KHNAHU has trained more than 3,000 foreign specialists who successfully work in managerial and responsible positions in state and private enterprises, companies, factories, firms in more than 90 countries of the world;
- About 30 years ago, the best preparatory faculty was created at the University and is successfully operating, where annually about 100 foreign citizens from 30 countries of the world study the languages of instruction;
- About 600 foreign students from 50 countries of the world study at the basic faculties and specialties of the university annually.



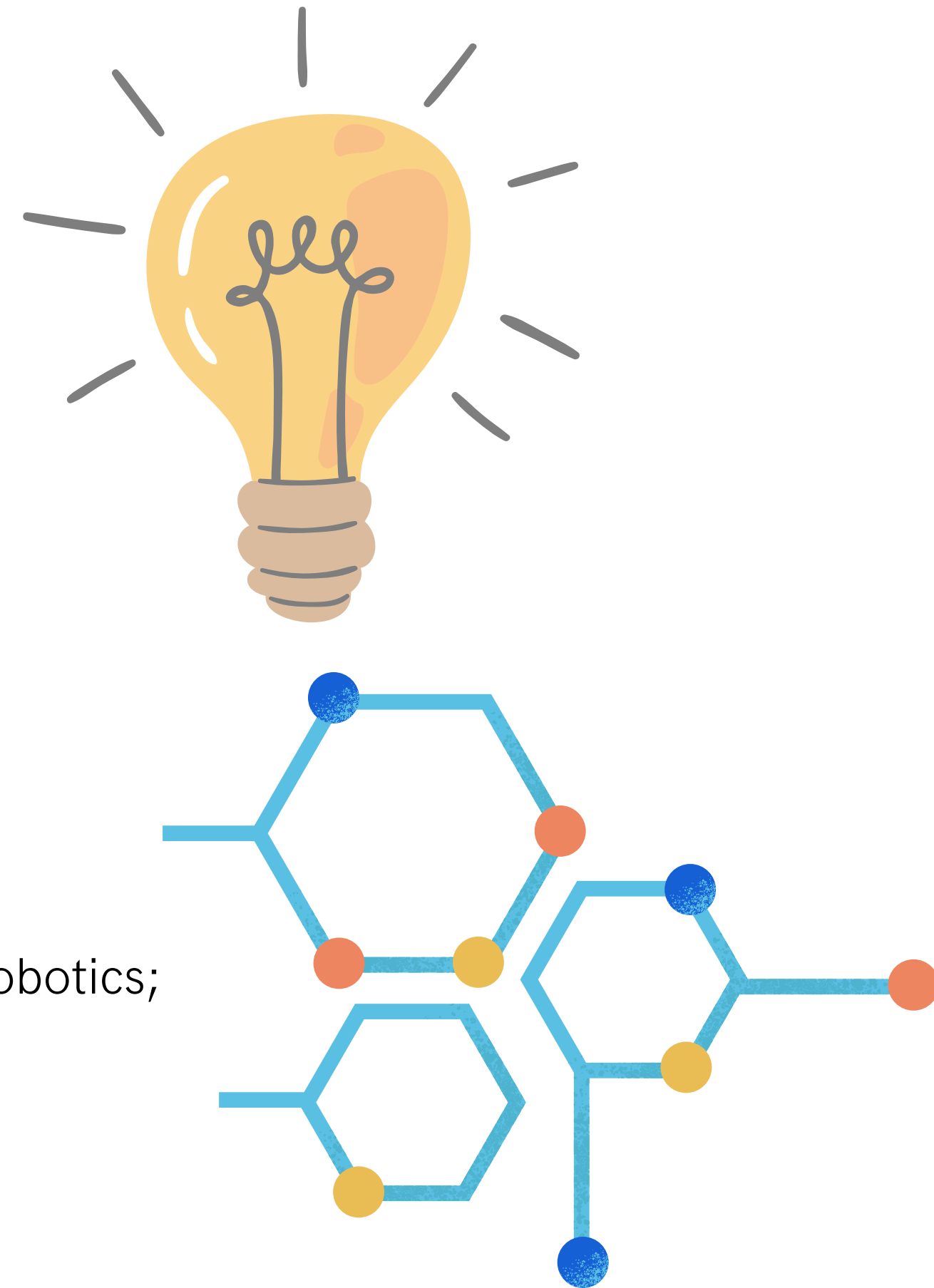
# High-speed vehicle laboratory

- Established in 09/01/1962. In the same year, the design department for auto was opened on the basis of the laboratory, within the framework of which students, under the guidance of teachers and scientists, design, calculate, manufacture, test original mechanisms, assemblies and systems of new sports cars.
- During the activity of LSA, 34 sports and racing cars have been developed and built, 42 speed records have been set, 16 of which exceed world achievements.
- The FORMULA-E8 university team was created, participating in the national circuit races. She became the champion of Ukraine three times, four times the silver and three times the bronze medalist of the country.
- In 2010-2016, on the HADI-34 eco-mobile created in the laboratory, the LSA student team participated in the international SHELL - ECO-MARATHON competitions in Germany, the Netherlands, Great Britain, having driven 575 km on 1 liter of fuel (2010). And in London in 2016 she won the Cup - "For team spirit and will to win"




## Kharkiv National Automobile and Highway University team of researchers have strong academic and professional background in the fields of:

- Modern technologies of road construction;
- Ecology and environmental protection;
- CPI - improvement of engine designs;
- Vehicle dynamics (functional properties, braking processes);
- Energy efficiency and energy saving in transport;
- Electric impulse straightening;
- Technical service and maintenance of cars;
- Regulation and road safety;
- Economics, entrepreneurship, management;
- Information systems and mechatronics in transport;
- Materials science and modern technologies of metal hardening;
- Intelligent information measuring technologies (in the widest range);
- Computer modeling in mechanical engineering in transport;
- Automation of work processes of construction and road machines and robotics;
- Psychology and pedagogy of higher education;
- Laboratory of high-speed cars





# The projects that the KhNAHU is planning to initiate this year.

 1. DEVELOPMENT OF AN INTERNATIONAL EDUCATIONAL PROGRAM FOR TRAINING PROFESSIONALS IN THE OPERATION AND MAINTENANCE OF AUTOMATED AND ROBOTIC ROAD CONSTRUCTION EQUIPMENT.

The main objective of the project is to develop a new educational program for preparing bachelor's degree students in Ukrainian and foreign universities who will be able to operate and service modern and promising road construction equipment with a high level of automation and robotics. This will be achieved through the modernization and synergistic combination of curricula and training programs for bachelors in the fields of Industry Machine Building and Automation, Computer Integrated Technologies, and Robotics. These educational programs are oriented towards innovative engineering and computer science.

 2. INDIVIDUALIZATION OF A STUDENT'S EDUCATIONAL TRAJECTORY USING DIGITAL TOOLS.

The main objective of the project is to enhance the effectiveness of student learning by utilizing special syllabus-oriented teaching procedures based on individualized learning trajectories through digital tools.

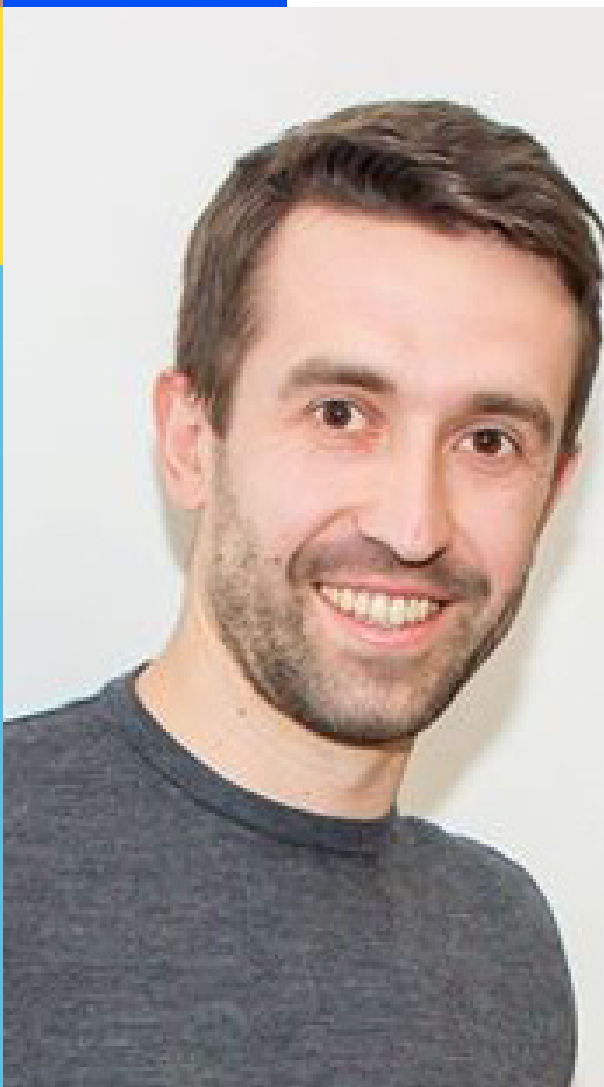
**WE INVITE YOU TO COOPERATE!**



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Kharkiv National Automobile and  
Highway University  
invites foreign partners  
to constructive  
and mutually beneficial  
cooperation!