



UNIVERSITY OF ŽILINA
Faculty of Mechanical
Engineering

Study in Slovakia!
Study in Žilina!



-
- Žilina is the 4th largest city in Slovakia.

<https://youtu.be/9dEHYkzCzVY>



Žilina has one of the most beautiful university campuses in Slovakia.



WHY STUDY IN ŽILINA?

UNIZA has 7 faculties. The Faculty of Mechanical Engineering is historically one of the founding and oldest faculties. **It is the BEST Mechanical Engineering Faculty in Slovakia** according to the independent assessment of the quality of science and research VER 2022.

How does it look here?

Virtual tour of the university:

<https://www.uniza.sk/index.php/verejnost/uniza-v-obrazoch/virtualna-prehliadka>

Virtual tour of the faculty

<https://www.fstroj.uniza.sk/index.php/akreditacia/laboratoria/prehliadka>





Žilina has the most beautiful university campus in Slovakia with TOP services in the field of education, business, sports and catering.



Faculty of Mechanical Engineering



WHY STUDY IN ŽILINA?

You will live in the most beautiful
dormitories in Slovakia right on
the university campus,
10 minutes from the faculty:

<https://vd.internaty.sk/>

Price for accommodation:

49 € – 64 €/per month



WHY STUDY IN ŽILINA?

No need to worry about hunger! As a student, you'll get well-prepared, nutritious meals at pocket-friendly prices. Plus, each day, you'll have a variety of 8 dishes to choose from, catering to both meat enthusiasts and vegetarians. And guess what? It's all conveniently located right on the UNIZA campus!

<https://menza.uniza.sk/projects-7>

Price for food:

1,60 € – 4,20 €.



Treska Bar also serves
dinner and
is open From:
7:00 AM to 7:30 PM

WHY STUDY IN ŽILINA?

If you're passionate about sports and the great outdoors, then the Faculty of Mechanical Engineering at UNIZA is tailor-made for you. Here, you'll not only receive a top-notch education but also immerse yourself in the beauty of nature, right on one of Slovakia's most picturesque university campuses. Complete with an athletic track and nestled in a city where nature is within easy reach, it provides an unmatched setting for both academic excellence and outdoor adventures.



<https://www.youtube.com/watch?v=l6eMlcJw3fg>

<https://www.youtube.com/watch?v=8QRfQH3aMpo>

WHY STUDY IN ŽILINA?

Getting to our college campus is a breeze!
Whether you prefer walking, driving,
cycling, scootering or public transport, we
have everything for you.

Check out the different ways to reach us:

<https://www.youtube.com/watch?v=vYuWjVHtmWQ>



WHY STUDY IN ŽILINA?

Now it's decision time!

All our study programs are accredited, ensuring that after graduation, you'll find a well-paying job, not only in Slovakia but potentially abroad as well:

https://www.youtube.com/watch?v=M3T_o_x9iL9Q





What else do we offer:

- **Mathematics and physics courses for new students;**
- **Slovak language course;**
- **Incentive scholarships;**
- **Foreign mobilities within ERASMUS+;**
- **Excursions and internships in companies.**

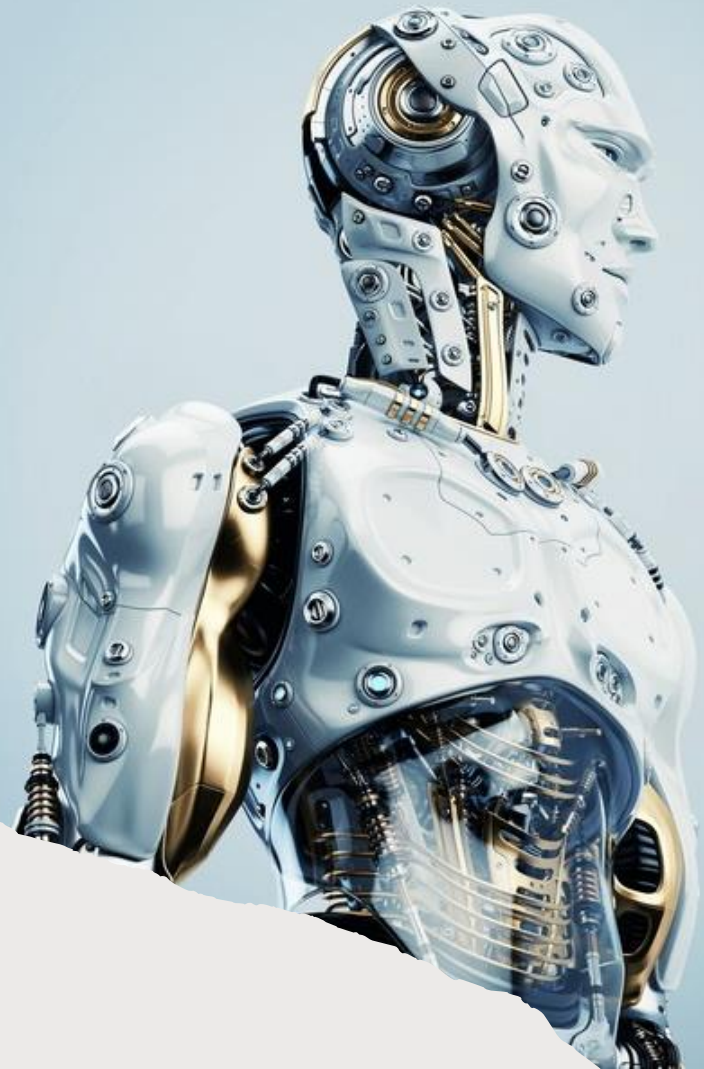


ŽILINSKÁ UNIVERZITA V ŽILINE
Strojnícka
fakulta

WWW.SVETSTROJOV.SK



UNIVERSITY OF ŽILINA
Faculty of Mechanical
Engineering



Study programs offered:



Full-time engineering degree:

- **Computer Design and Simulation**
- **Mechanical Engineering Technologies**
- **Energy and Environmental Technology**
- **Industrial Engineering**
- **Vehicles and Engines**

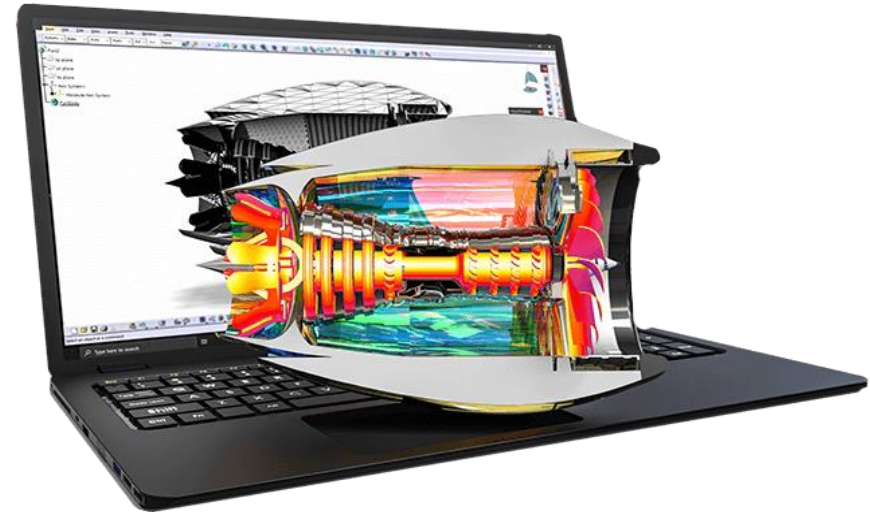
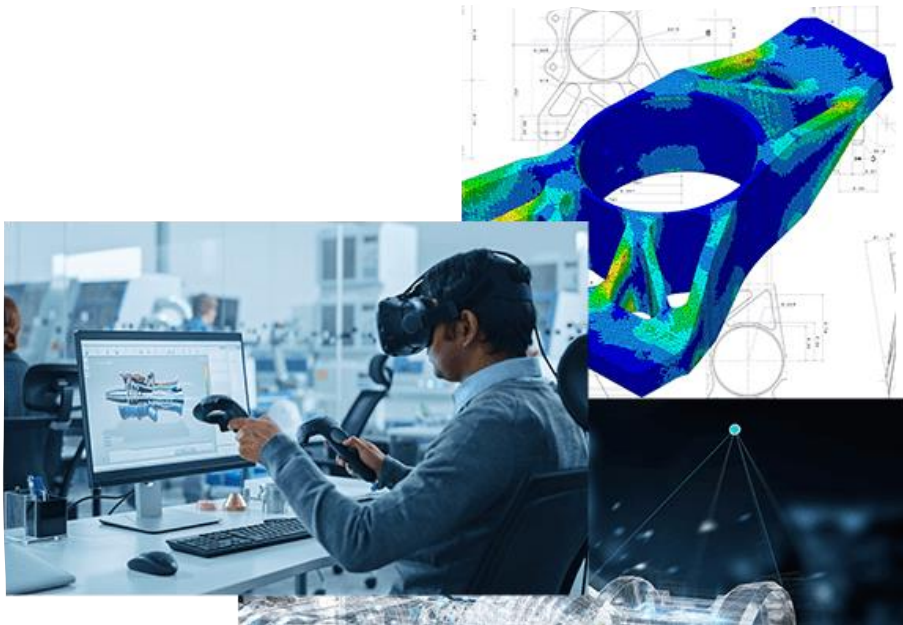
LENGTH OF STUDY 3 YEARS

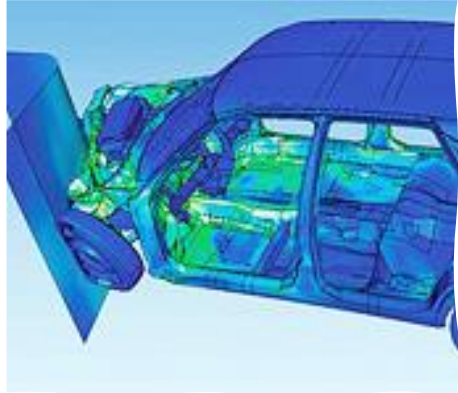


Computer Design and Simulation

...intelligent machines, devices, elements

- designing machine parts, assembly units and creating technical documentation
- working with modern 2D and 3D CAD systems to support construction and modeling
- work with systems for calculation, analysis and simulation of parts of technical systems and their mechanisms in dynamic and FEM analyses

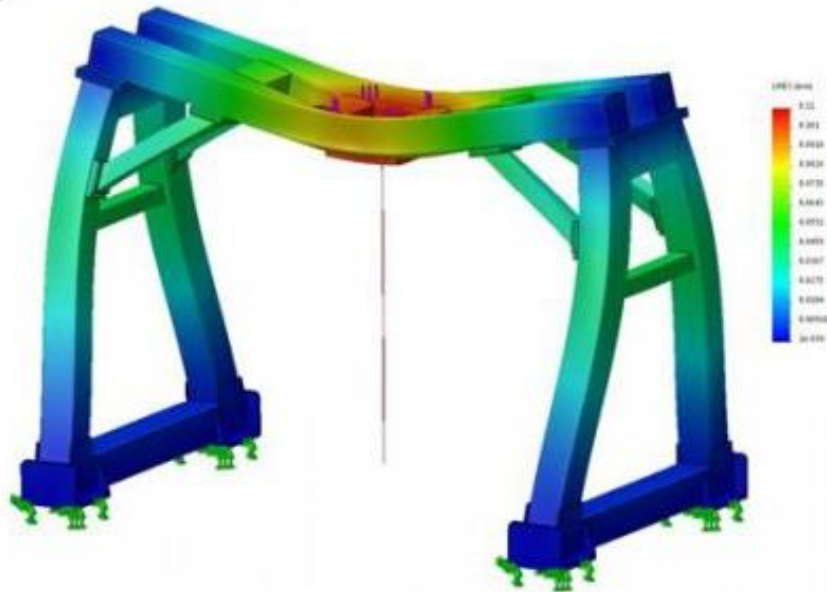




Modern equipment of classrooms and laboratories

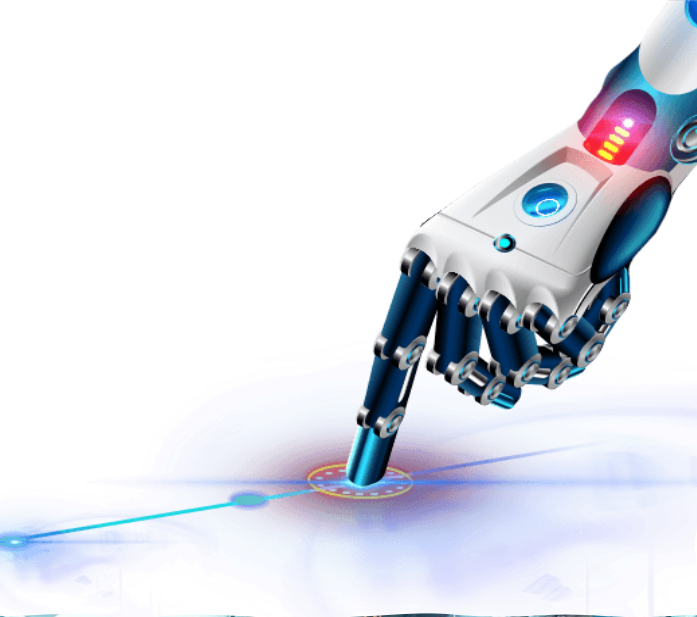
- computer rooms with powerful computers and the most modern CAD/CAM/CAE systems;
- laboratories for testing and diagnostics of bearings and gearboxes, research in the field of tribological properties of materials, testing of electric cars, devices such as Rapid Prototyping, Rapid Tooling and a bionics laboratory;
- Laboratories of dynamics and FEM analysis for research in the areas of optimal design of structures, reliability, failure and fatigue of structures under static and dynamic loading.

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Mechanical Engineering Technologies



...intelligent engineering technologies



- engineering production technologies and their management CIM
- implementation of CNC technologies in engineering production
- application of IT to engineering production such as CAX systems
- SMART automation and CAPP robotization
- CAQ inspection, quality and testing standards
- control of quality, chemical composition, heat treatment, production and production processes....

Top laboratories

- CAD/CAM/CAE systems and CNC programming, CNC technology
- automated production systems
- evaluation of technological processes
- foundry metallurgy and technology
- heat treatment and forming
- non-destructive technologies
- engineering metrology
- digital production
- metallography and testing of materials





Industrial Engineering

... digital business and SMART management

- organization and management of production processes;
- production systems and their design;
- corporate logistics;
- production quality;
- information technologies;
- management and economics;
- organization of auxiliary and service operations.



Top software equipment and laboratories

- design of production and logistics systems;
- computer simulation;
- virtual and augmented reality;
- digital enterprise;
- digital ergonomic analyses;
- intelligent and reconfigurable production and logistics systems;
- new approaches and technologies in the construction and operation of the so-called intelligent plants

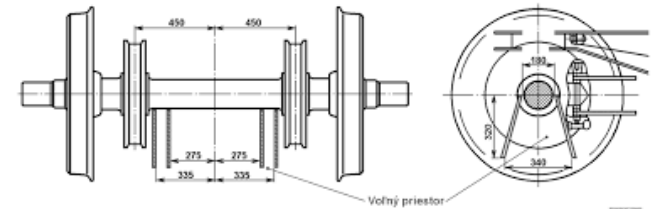
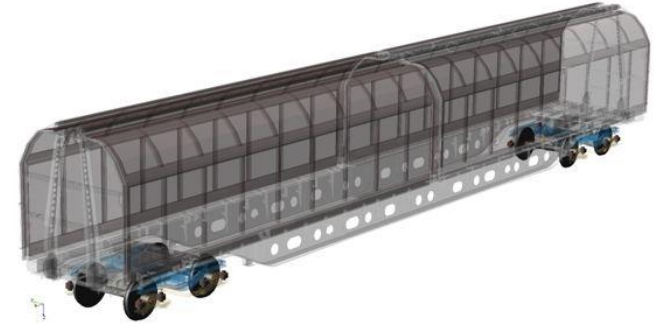
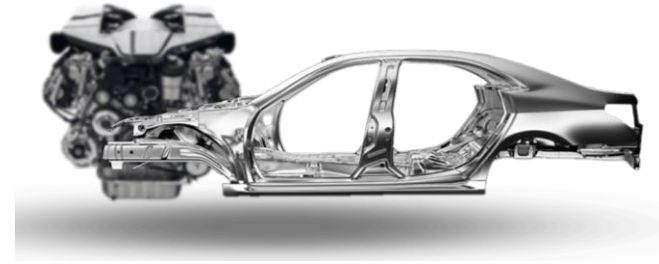




Vehicles and Engines

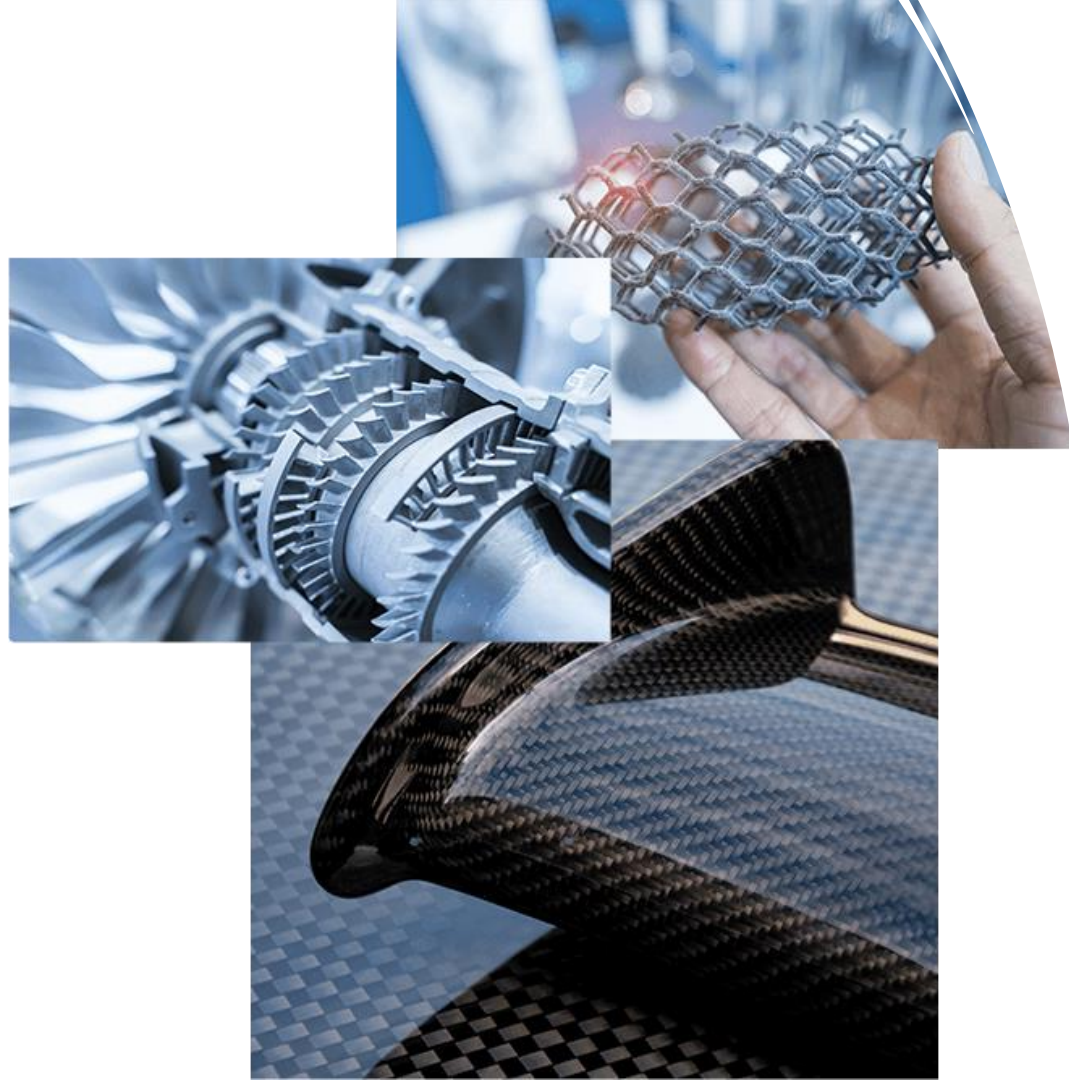
... intelligent structures and mobility

- theory, concept, construction, diagnostics, testing, maintenance of vehicles and combustion engines;
- computer modeling, simulations - analyzes of vehicles and engines;
- quality assessment and testing of transport technology;
- legislative requirements placed on the production and operation of means of transport and their subsystems



Modern teaching spaces

- Modern classrooms, laboratories and test rooms for computer-aided design, modeling, simulation engineering calculations, experimental testing;
- Analysis of the characteristics of vehicles, engines and their parts;
- Diagnostics and maintenance of vehicles;
- Testing combustion engines;
- Lectures by experts from practice;
- Excursions to production enterprises.

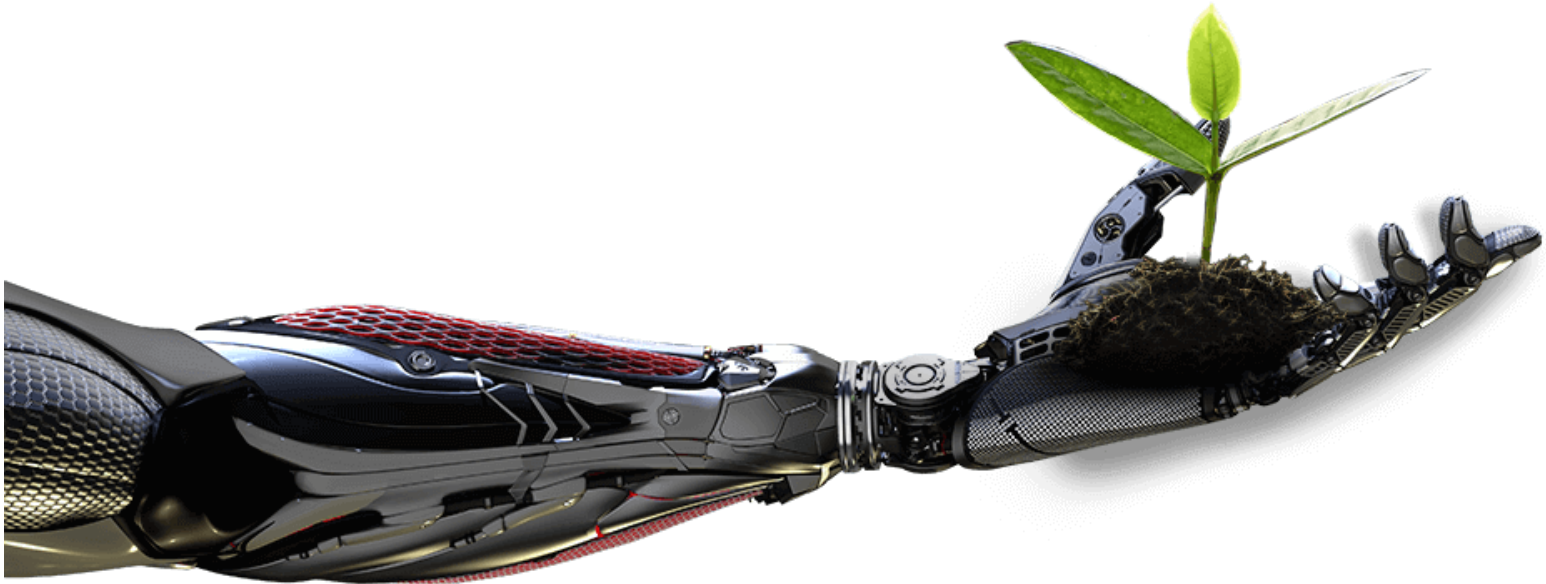




Energy and Environmental Technology

... efficient use of energy resources

- fluid mechanics, thermodynamics and heat and mass transfer;
- energy sources, distribution networks of energy media;
- design and construction of machines that produce and transform energy;
- design and construction of equipment for the use of alternative energy sources and equipment for the energy recovery of waste

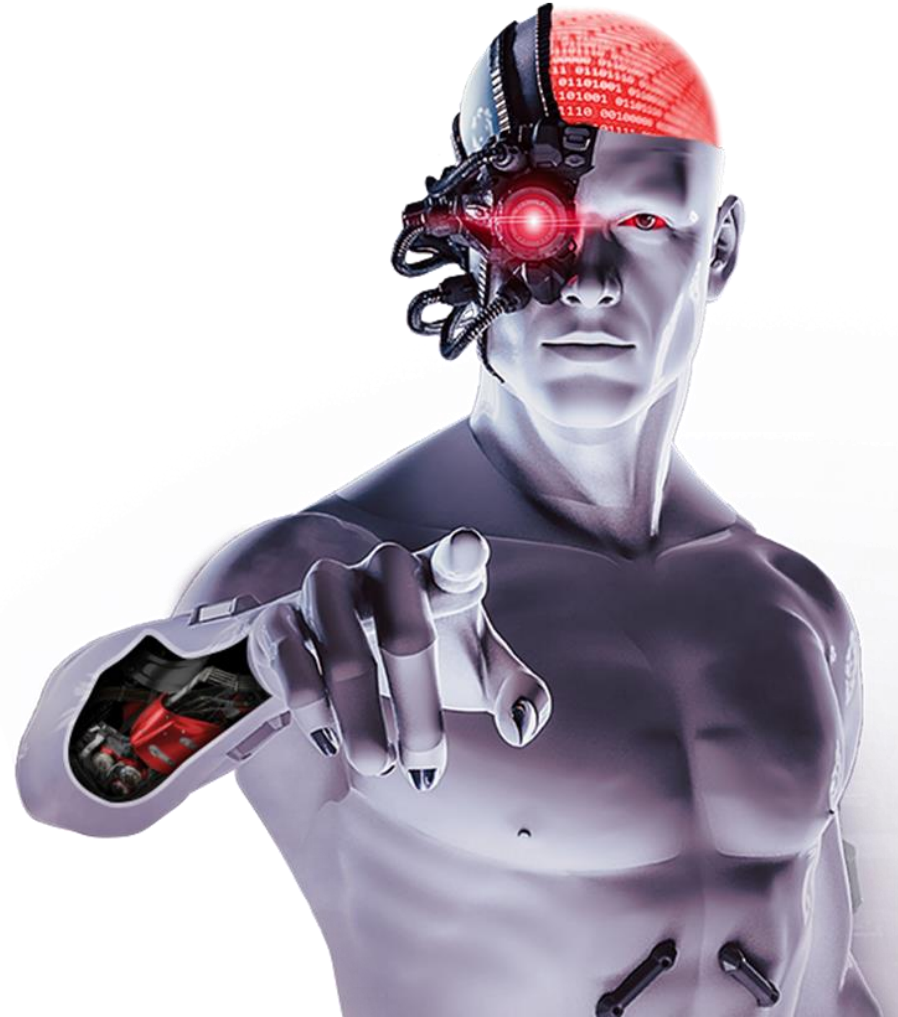


Modern teaching spaces

- simulation of thermal phenomena;
- work with renewable energy sources;
- optimization of heat sources;
- reducing the energy demand of buildings,...



- What else awaits you with us....



SPORT



CULTURE



REST AND RELAXATION





Active cooperation with practice