

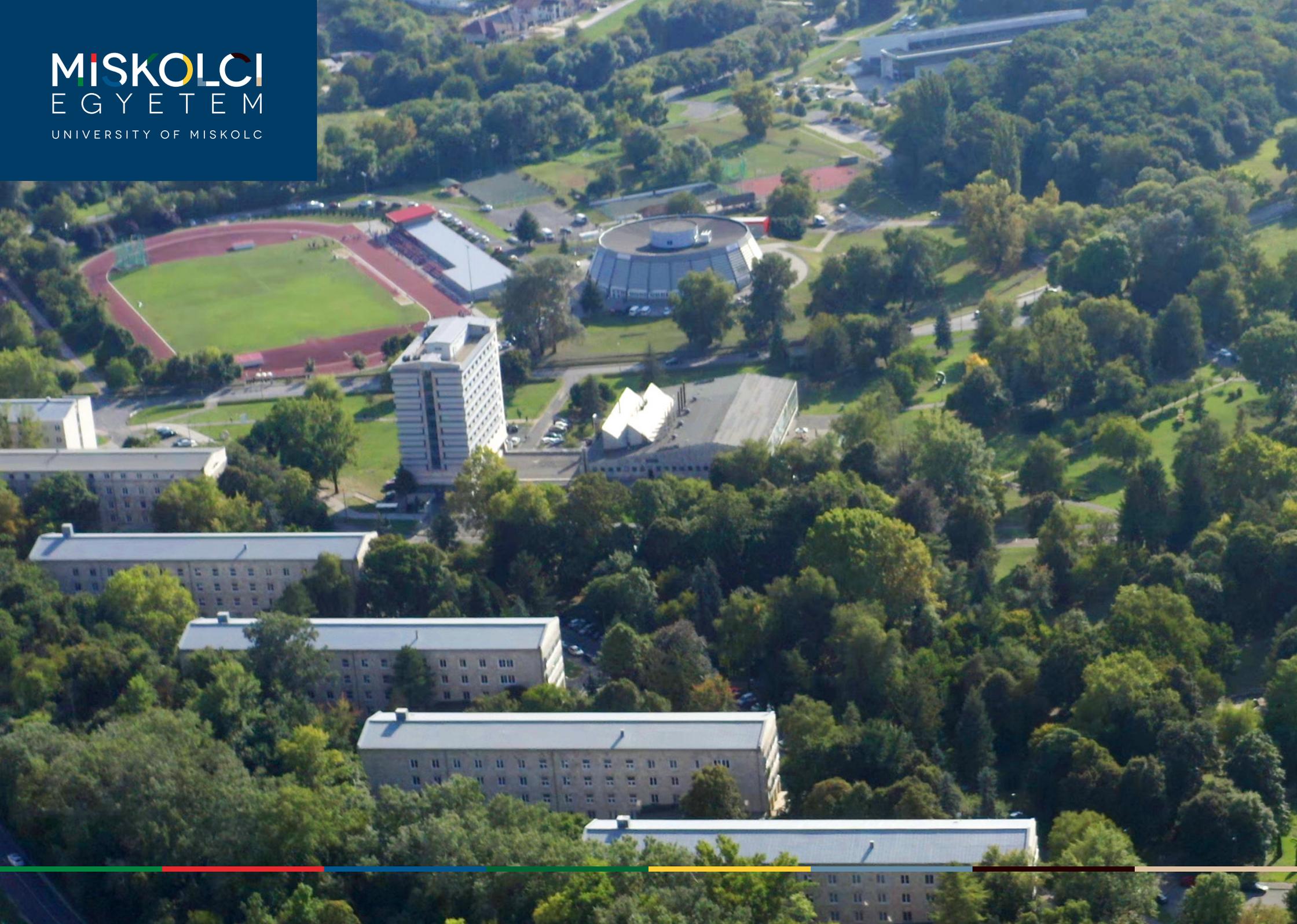


# MISKOLCI EGYETEM

UNIVERSITY OF MISKOLC

MISKOLCI  
EGYETEM









## Address from the Rector

As a historian, it is only natural that I would start with the fact that the history of the University of Miskolc began in 1735. This is when the world's first institution for advanced studies in mining and metallurgy was established in Selmecbánya (now Banská Štiavnica, Slovakia) and was raised to the status of an academy in 1762. The storms of Hungarian history affected its fate: after the First World War the institution moved to Sopron, where studies in forestry were added, and then in 1949 the political leaders decided to transfer some areas of study to the newly established Technical University for Heavy Industry in Miskolc: the university started out with faculties of mining, metallurgy and mechanical engineering. Once again, historical and societal change brought about alterations, with courses in law and then economics being added to the university's offerings in the 1980s, humanities and social sciences joining in the 1990s along with music studies, and health care studies being added in 2001.

Currently we have eight faculties, many of which have undergone changes in their names over time. The original mining course is now the Faculty of Earth Science and Engineering, metallurgy has become the Faculty of Materials Science and Engineering, and IT is partnered with mechanical engineering. Along with names, the areas taught

and researched have kept developing, since – as we know – the world does not stand still and we need to move with it.

Today our motto is “Green and Smart”, which is our guiding principle as we renew our courses and our infrastructure, as well as go about our daily business.

A great deal of work is needed, but we believe that we have the creativity, talent, dedication and energy needed to stay on this path. We have a great environment for it: our campus is the most beautiful in Hungary, and in my opinion it compares well even on a European scale.

I most warmly invite you to come and visit the University of Miskolc if you get the chance. If you do, you will encounter lively young people from Hungary and abroad who respect traditions and you will find up-to-date laboratories and workshops, an active campus life, a park-like campus, modern student accommodations and sporting facilities, and a university that is continuing to progress.

There is a traditional greeting among our founders, the miners, one that means so much to every one of our graduates, and that I also wish for you: “Good luck!”

**Prof. Dr. Zita Horváth,**  
*rector*

## A Brief History of the University of Miskolc

- 1735** A mining and metallurgy institute is established in Banská Štiavnica (then in the kingdom of Hungary, today in the territory of Slovakia), the predecessor of the university
- 1762** Maria Theresa promotes the institute to academic rank
- 1919** After World War I, the institution moves from Banská Štiavnica to Sopron
- 1949** The Technical University for Heavy Industry is established in Miskolc (mining, metallurgy, mechanical engineering)
- 1981** The Faculty of Law is established
- 1987** Training in economics begins
- 1992** The Institute of Humanities is established
- 1997** The Béla Bartók Institute of Music joins the university
- 2001** The Institute of Healthcare is established
- 2021** We now teach at 8 faculties at the University of Miskolc





## Address from The Chairman of Board of Trustees

My alma mater, the University of Miskolc, became a university maintained by a trustee foundation as of 1 August 2020, as part of the Hungarian higher education model change. This started a new chapter in the story of our university, a story that began nearly 300 years ago in Selmecbánya. Building on the results achieved up to now, our shared aim is to operate a dynamically developing and innovative university that honours its traditions while providing its students with knowledge that allows them to compete on an international level. To achieve this aim, we have formed close cooperation with various economic actors and with state, government and local government organisations in order to provide modern and timely responses to their needs.

The success of tens of thousands of our graduates proves that the University of Miskolc is an excellent institution of higher education, known even on an international level. Although the methods may change, the goal remains the same: to preserve our values, our independence, and the broad range of areas of study we offer, where our students can explore their talents with the help of teachers and researchers working for the interests of the university. While new opportunities are opening up for the university as a result of unprecedented educational, research and infrastructural development, students will continue to have access to state-supported tuition, scholarships and student benefits.

The Foundation operates programmes to support education, academic research, and the people involved – students, teachers and researchers – in the interest of developing the economic, social and international relations of

Hungarian higher education. It provides need-based financial support and supports programmes for developing talent. The Universitas Miskolcinensis Foundation Scholarship has been established to provide support – not only financial – to students from disadvantaged backgrounds who have outstanding results in their studies or in research or professional activities.

The Foundation, as maintainer and owner of the University of Miskolc, carries out its duties in conformity with the law and in cooperation with the university and its citizens. As one aspect of this objective, the Board of Trustees announced a competition entitled “Formulating the renewal, strategy and vision of the University of Miskolc” in which students were asked to present their ideas and recommendations to the university leadership. The best of these were incorporated into the institutional development plan that will guide the university through this next important phase in its history.

I myself attended the University of Miskolc and was a student on the nation’s most beautiful campus, and similarly to many former students, the traditions passed down from the university’s early days in Selmecbánya – the secret language, the membership ring, the flag, the songs – remain with me today. Now, within this new model of higher education, new opportunities have opened up, and I urge you to join us in taking advantage of them!

Good luck!

**Dr. Judit Varga**

*Chairman, Board of Trustees*

*Universitas Miskolcinensis Foundation*

## UM in Numbers

- 1 campus
- 85 hectares
- 29 buildings
- 135,000 m<sup>2</sup> of classrooms, labs, teachers' offices, etc.
- 35 lecture halls
- 95 classrooms
- 7 student hostels with about 2,000 places
- 9,000 students (approx.) (2021/22)
- 8 faculties
- 99 BSc/BA programmes (3 taught in English)
- 82 MSc/MA programmes (17 taught in English)
- 177 specialisations (6 taught in English)
- 28 PhD programmes (14 taught in English)
- 430 international students (2021/22)
- 70 countries represented



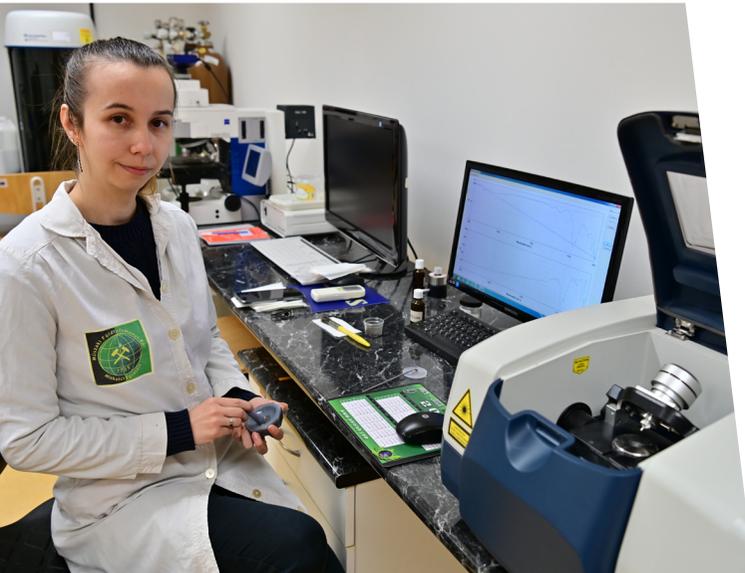
## Faculty of Earth Science and Engineering

Global challenges that the faculty deals with are low carbon technologies, the circular economy, the exploration and extraction of strategic raw materials for high-tech industries, waste mining, the development of environmentally friendly mining methods, and sustainable land use.

Main teaching and research fields of the faculty: prospecting, production and preparation of raw materials and energy sources; geothermal energy; water supply management; exploration and production of waters; geological information service, GIS data; geological simulation; social and economic geography.

The quality of research for industrial and grant projects and of education is ensured by a continuously updated and modern laboratory infrastructure.

The faculty constantly strives to expand its programmes and the vast majority of its specialisations offered in Hungarian can also be chosen in dual training form. The faculty currently offers nine postgraduate specialist training courses to engineers who already hold degrees in order to provide them with further specialist knowledge.



The main aim of the faculty is to train engineers with high-level knowledge of the natural sciences, engineering, economics and law who are dedicated to the natural environment and prepared to carry out the management of natural resources and committed to sustainable development.

A major feature of the faculty is that its students can not only acquire knowledge built on the foundation of earth and environmental sciences, but also the engineering and practical knowledge to implement their scientific knowledge.

The Faculty of Earth Science and Engineering is unique in Hungary in offering study programmes in earth science and engineering, mining and geotechnical engineering, raw material process engineering, and petroleum and natural gas engineering.

Outstandingly successful R&D activities have been carried out in international projects such as UNEXUP - UNEXMIN Upscaling, GROW Observatory, ROBOMINERS, CHPM2030, Intraw, and KINDRA.



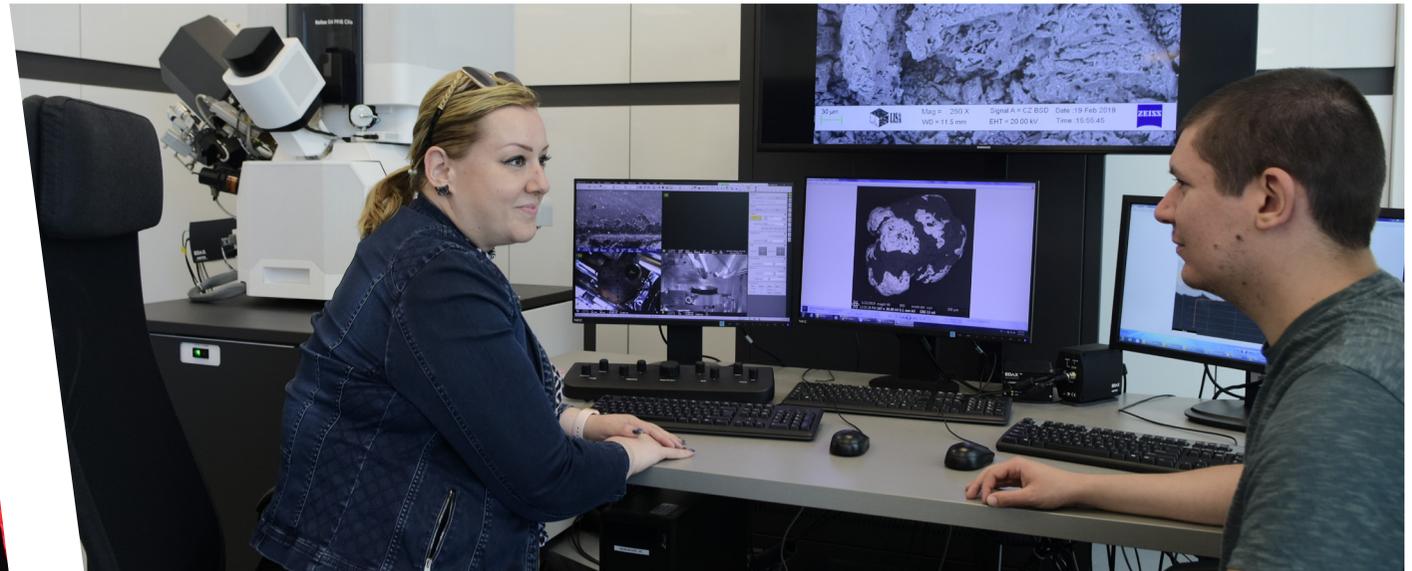
## Faculty of Materials Science and Engineering

Materials engineering – the science of the structure and properties of materials, as well as material manufacturing by energy efficient and environmentally safe technology – is a dynamically developing field worldwide. The Hungarian “capital” of materials engineering is Miskolc.

We deal with the theory and practice of nanotechnology. We have experience in soldering/brazing, nanomaterials design, nanocomposites, nano-multilayered coatings, carbon nanostructures, and their preparation and modelling.

We give special attention to the areas of energy management and storage and climate change and sustainability, as well as focus on the CO<sub>2</sub> cycle, alternative solutions for energy production, and waste utilisation.

We have joined the AMIR (Advanced Materials: Innovative Recycling) Master Programme, where MSc students can start their studies in Miskolc and continue them in Bordeaux, Darmstadt, Liège, Lisbon or Madrid. AMIR students will earn a double-degree diploma.



We have two LIFE projects in progress. LIFE IP HUNGAIRY project aims to improve air quality in Hungarian regions through the implementation of special measuring sensors. The main task of the LIFE-CLIMCOOP project is to cooperate with cities and local companies for climate change adaptation.

In our 3D lab we can examine structural materials in a combination of techniques unique in Europe. We use a Stresstech XStress Robot, a YXLON FF35 Computer Tomograph, a Thermo Scientific Helios G4 PFIB SEM, and a Bruker D8 Discover XRD SAXS XRR.

The Stipendium Hungaricum programme is an important part of our education, through which applicants from abroad can join our professional teams as MSc (polymer or metallurgical engineering) and PhD students.

We deal with research and development of innovative and special materials on a wide scale, including metals, plastics, ceramics, space materials and composites. In addition to the production and testing of materials, we also focus on recycling.





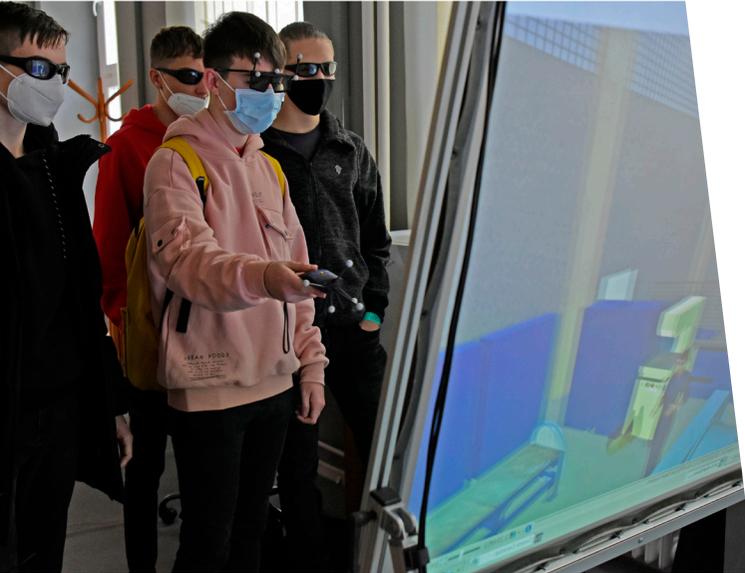
## Faculty of Mechanical Engineering and Informatics

The faculty is characterised by continuous development and renewal. The goal is to provide students with the competitive knowledge and practice-oriented training required in industry.

Research and development activities carried out with our industrial partners lay the foundation for the up-to-date development of programmes and courses and enable students to be involved in projects.

The number of industrial partners is continuously increasing. Students studying in dual training programmes at the faculty gain extensive experience in industry while receiving a university education.

The faculty offers 12 undergraduate and 6 master programmes, as well as a doctoral programme. After the completion of a bachelor's or master's degree, students can obtain discipline-specific knowledge in our 16 postgraduate specialist training courses.



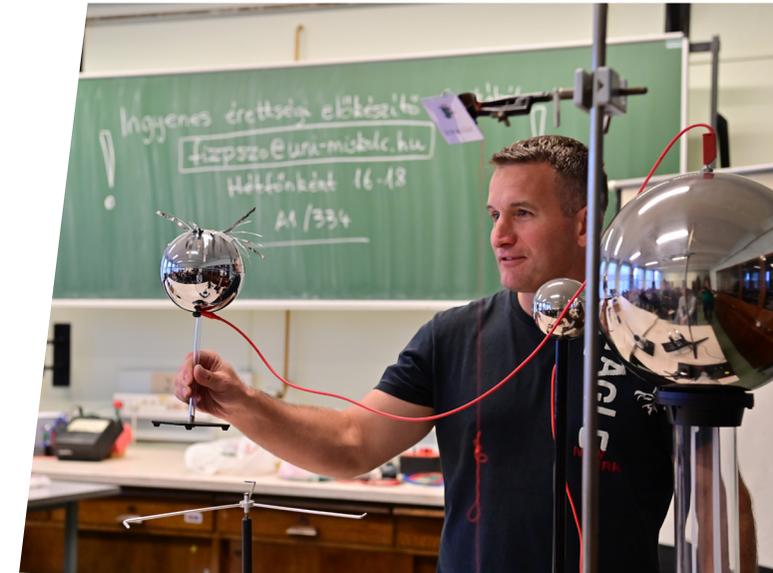


Undergraduate programmes: Energy Engineering, Business Informatics, Mechanical Engineering, Industrial Design Engineering, Vehicle Engineering, Logistics Engineering, Mechatronical Engineering, Computer Science Engineering, Engineering Management, Computer Science, Electrical Engineering, Computer Science Operational Engineering (BProf).

Master's programmes: Energy Engineering, Mechanical Engineering (also available in English), Logistics Engineering, Mechatronical Engineering, Computer Science and Engineering (also available in English), Electrical Engineering.

Our students have been achieving podium results in domestic and international technical competitions for several years (e.g. Go-Kart, Go-Bosch competition, Tecthoughter competition) using our state-of-the-art laboratory equipment.

It is possible to obtain a PhD in one of the two doctoral schools of the faculty under the supervision of nationally and internationally known lecturers.





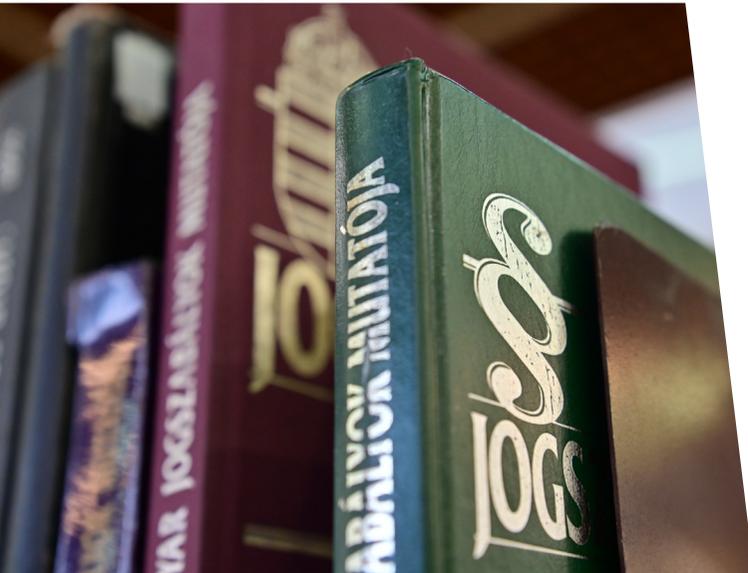
## Faculty of Law

Our educational aims are to train professionals with legal qualifications who have acquired the basics of political science and related social sciences and are qualified to practice law in the public and private spheres.

Graduates can take part in dealing with problems in the economic, social, interstate and civil spheres on an international stage, especially in Europe.

We are committed to providing our students with the highest level of practice-oriented training. They can practice the basics of the craft in our sample courtroom.

We have excellent relationships with corporate and administrative partners in order to implement hands-on training.



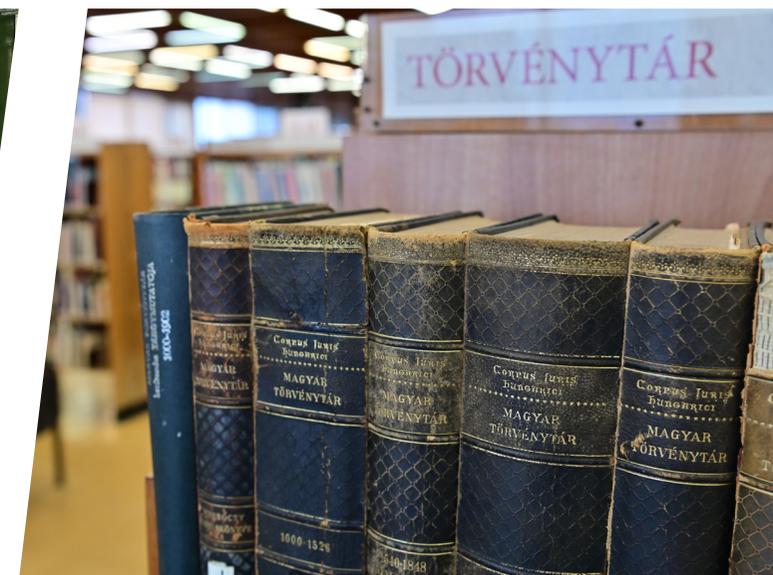


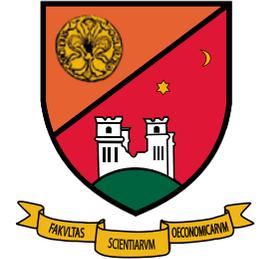
Our programmes are also taught by internationally recognized faculty members. The faculty hosts eight centres for legal and interdisciplinary research.

We provide scholarships and study abroad opportunities within the Erasmus+ program, and we work with about 30 foreign law faculties.

We also offer specialized in-service training – some courses also in English – including training for those who do not have a law degree but who aspire to be even more successful in their profession.

Doctoral studies are available in both Hungarian and English. International students can also join the PhD programme with a Stipendium Hungaricum scholarship or the Central European Academic Scholarship Program.





## Faculty of Economics

The economic and social changes taking place today pose serious challenges for economics education. We train graduates in economics who speak a world language to the standard required to practice the profession and who have hands-on training in addition to theoretical knowledge.

The Faculty of Economics currently has international partners in 25 countries on four continents, which enables the development of wide-ranging educational and research collaborations in addition to student and faculty mobility.

Our students not only get acquainted with their future tasks in seminars but also get in touch with companies and institutions during their internships, where they can acquire the skills of the profession in a real business environment.

The institutes of our faculty deal with economic theory, management, marketing and tourism, finance and accounting, management science, and regional and world economics.





Our faculty has a large number of students involved in international exchanges. We encourage our students to take part in study abroad programmes as well as in summer internships abroad.

Real corporate examples and situations strengthen the knowledge of our students participating in dual training programmes, who gain work experience, skills and abilities that are useful in the labour market.

The faculty has eight research centres whose main topics cover sustainable development, marketing, landscape and settlement research, spatial economics, business development, strategy and technology development, social innovation and financial literacy.

We also pay special attention to nurturing talent through operating a college for advanced studies with the participation of the most talented students, which provides not only a professional but also an intellectual community.





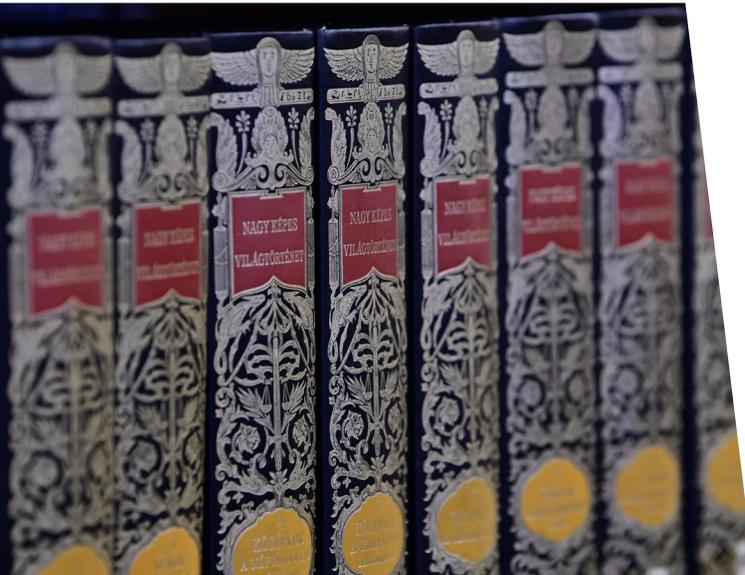
## Faculty of Arts

The Faculty of Arts offers programmes ranging from classical humanities subjects to modern social sciences, including studies in education.

Some master programmes are taught in English, such as Central European Studies, with a broad focus on topics related to the region, and Cultural Anthropology, with its hands-on approach and plenty of chances for fieldwork.

The Doctoral School of Literary Studies offers PhD courses not only to our graduates but to all those from Hungary and abroad interested in literary science and textology.

Humanities and social sciences have been taught and researched at UM for three decades now. Our programmes focus on up-to-date, applicable and practically-oriented knowledge and skills.





We offer 12 BA and 10 MA programmes along with teacher-training programmes. National surveys show that we are among the leading faculties of arts in both teacher qualifications and student satisfaction.

Here you'll find a friendly community, unique student traditions and one of the country's most beautiful campuses. Nearly 90% of our students stated that if they could choose all over again, they would gladly choose UM's Faculty of Arts.

Our specialised post-graduate training courses build on any kind of earlier degree to provide further professional training. The timetable allows students to participate in these part-time courses while holding down a job.

The faculty has seven institutes: Hungarian language and literature, history, anthropology, philosophy, modern philology (languages), applied social sciences, and teacher training and educational methodology.





## Faculty of Health Sciences

We provide our training to our students in cooperation with other faculties of the University of Miskolc, our teaching hospital, health care institutions and professional organisations in the region, adapting to the changing requirements, social needs and labour market expectations of our time.

Our mission has always been to locally provide higher education degree options for health professionals to benefit the region in prevention, imaging diagnostics, patient care, rehabilitation, health tourism, recreation, health social work and laboratory diagnostics.

The quality of our courses is guaranteed by well-known medical educators and recognised experts in the health sciences and interdisciplinary disciplines.

Our faculty is also involved in nano-biotechnology research, primarily in nanomedicine, nanotoxicology and nanotechnology, and has a research laboratory for these purposes.





Research is also underway in the field of diabetes. A program called HUNDRISK aims to screen for risk factors for type 2 diabetes in children and adolescents. Physical fitness and health-related quality of life are measured in children and adolescents with type 1 diabetes.

In cooperation with UM's Faculties of Economics and Earth Science and Engineering, we established a Virtual Health Tourism Research Centre, where complex climate and hydrotherapy and movement therapy studies and research are carried out in the Miskolc-Tapolca Cave Bath.

We also have a Recreation Laboratory equipped with a climate therapy salt cabin, a mass-optimizing steam cabin, a jade stone massage table and various measuring instruments.

We are participating in the 'Student Life Cohort in Europe' (SLICE) project. In this context, a long-term international comparative study of students' health behaviour is being carried out involving students from several European countries.





## Bartók Béla Faculty of Music

Our specialties: piano, violin, viola, cello, bass, guitar, trumpet, clarinet, oboe, bassoon, flute, recorder, French horn, trombone, tuba, saxophone, percussion, classical singing, knowledge of the music, choral conducting, performing arts and music theory.

In 2020 and 2021, several of our students achieved excellent results in Hungarian and international competitions (such as the international orchestra competition organized by Samnium University of Music and Mozarteum Salzburg or the Wiener Danubia Talents International Music Competition).

At our faculty applicants can choose between the BA programme (6 semesters), teacher training (10 semesters), the MA (2 or 4 semesters), and specialised in-service training.

Currently, art and pedagogical training are also provided in institutes for strings, piano, wind instruments and music theory under the guidance of internationally recognised and dedicated teachers with the highest musical qualifications and academic degrees.





From September 2021, master classes in artists, oratorios and songs, clarinet, cello, piano and guitar started in our five departments.

The faculty has a symphony orchestra, a string orchestra, a brass band, a percussion ensemble, an early music ensemble, a guitar band, a female choir and a mixed choir.

Our current and former teachers are members of the country's leading bands, musical institutions, and ensembles (the Hungarian State Opera House, National Philharmonic Orchestra, Budapest Festival Orchestra, Hungarian Radio Symphony Orchestra, Miskolc Symphony Orchestra).

Our graduates are active as teachers, soloists, orchestra and choir musicians in Hungary and many other parts of the world.





## International Relations

The University of Miskolc (UM) aims to actively contribute to the development of the European Higher Education Area through its high-level Hungarian and English language study programmes, its R&D activities, academic publications, increasing numbers of international students, and its international academic and research network.

International students may study in a degree programme at the university as a self-financing student or a Stipendium Hungaricum scholar, or they may study for a limited period of time as an exchange student. The eight faculties of University offer 20 degree programmes taught in English at

the bachelor, master or doctoral level in the following areas: humanities and social sciences, engineering, information science, economics and law and music.

The university is expanding and improving the services available to international students and staff. A mentor system assists with adjusting to university life and studies, on-campus housing is provided, special cultural, community and academic programmes are organised.

The majority of exchange students come to the University through the Erasmus+ and Ceepus mobility programmes,



representing many countries, and can choose from over 400 courses taught in English. The university is also involved in double-degree and multiple-degree programmes.

The University of Miskolc has several hundred international agreements for inter-university projects and various international study and research programmes. UM also has around 130 strategic partners. Study and research frameworks are provided by programmes such as Horizon 2020, Horizon Europe, EIT Raw Materials, Erasmus+, Ceepus, LIFE, HUSK and DAAD, in addition to numerous Memoranda of Understanding.

The academic achievements of UM are recognised in international rankings. The university is among the institutions listed in the Times Higher Education and QS World University Rankings (since 2020) and also in subject rankings for engineering.

UM researchers carry out basic and applied research of national and international significance that strengthens the university's role as centre for innovative knowledge and research. The university pays special attention to presenting scientific results and new knowledge in Scopus-indexed articles.





## Sport at the University of Miskolc

The university is committed to ensuring the well-being of students and employees by promoting a health-conscious lifestyle, so the continuous development of sport services and infrastructure is a strategic issue.

The primary task of the UM sports office is to provide both students and employees with leisure and sports programmes on an expanding scale and to an ever higher standard. This means organising sports afternoons on a weekly basis, currently featuring 15 different sports, as well as institutional competitions and sports days, so that everyone can find a form of movement that they like.

Since its founding in 1951, our university sports club has played a key role not only in the sporting life of the university but also in the city. In its current 10 divisions, it provides an opportunity to compete to 650 athletes. Beside the great success of the first-class basketball team, the volleyball and futsal teams of MEAFC are also frequent winners.

The Freshmen Sports Day and the University Sports Day gain a larger number of participants year by year. UM regularly hosts national university championships and the relay footrace through the mountains can be highlighted as a traditional event.





DEBRECEN-MISKOLC 2024  
EUROPEAN UNIVERSITIES GAMES



Our institution is an active member of the international university sports movement. In 2016 we hosted the Orienteering World University Championship, in 2017 the Basketball European Universities Championships, and in 2024 we will be a co-organiser and host of the European Universities Games, the largest student sports event on the continent.

In addition to being a catalyst for several important infrastructure investments, the Games play an important role in promoting a health-conscious lifestyle and dual career, offering our students many opportunities to gain professional experience and develop individual competencies, and also

contribute to achieving the sports concept and sustainability goals of the university.

UM has a high-quality sports infrastructure. The sports hall was completely renovated in 2017 and outdoor playing fields serve many sports disciplines. Tennis courts and a modern conditioning gym are available for students and employees, and a swimming pool and an athletics centre are located next to the campus.

In the near future, a new tennis centre will be built to international standards with hard-surfaced courts. We will also gain outdoor beach volleyball courts and a 2-km-long Tartan running track on campus.





## Green and Smart Campus

The developments involved in the GSC project are the basis for creating a more effective and fruitful scientific, innovation, artistic and educational ecosystem for the university.

The infrastructural development focuses on providing a modern environment for education and on refurbishing and renovating our buildings to better serve the needs of our students and employees.

Our organisational and educational development focuses on creating inclusive higher education.

Based on previous traditions and existing knowledge, we plan to establish five new STEM research centres to carry out research of strategic importance for Hungary and the European Union.

We also wish to expand our health science and social science research capacity, which will strengthen our third mission activities.

Digitalisation, energy efficiency and the use of renewable energy, the increase of RDI potential and an emphasis on economic development are all major features of our development goals.



## Universitas Miskolcensis Foundation

A new chapter has begun in the life of the University of Miskolc. As a result of the change in the model of higher education, from 1 August 2020 the institution is maintained by a public trust fund, the Universitas Miskolcensis Foundation.

New form, new goals. The Foundation defines its aims for itself and for the university in the areas of finance and management, social and economic contributions, cross-border regional and international activities, as well as academic aspirations. The overarching goal is for the institution to become an active market participant and economic organisation.

Our financial management goals are to establish and operate a transparent management system that serves the basic activity of researchers and lecturers, ensures sustainable development and the prosperity of the university and strives for a positive financial outcome.

Our social and economic goals are to further develop high-quality courses that provide useful skills and up-to-date knowledge, to establish close co-operation with the actors of economic life and with state, governmental and local government bodies and organisations, and to identify and adapt to their emerging needs.

Our cross-border regional and international goals are to promote and support the industrial opportunities and economy of the cross-border region, to educate ethnic Hungarians from neighbouring countries, and to increase international recognition and strengthen relations by hosting students and lecturers from universities abroad.

Our academic goals are to preserve the multi-faceted character of the university, to develop added value in the social sciences, arts and culture, and to strengthen the role of R&D.

In order to further develop economic, social and international relations, an educational and research support programme is operated by the Foundation for students, teachers, and researchers. The Foundation assists students with need-based grants and talent development programmes.

Looking ahead: The Foundation held a competition entitled "Formulating the renewal, strategy and vision of the University of Miskolc" through which students contributed to shaping the vision of the institution with their suggestions. Prizes totalling HUF 10 million were distributed by the Foundation.





## Scenes from Miskolc

The Lillafüred Forest Train is the most beautiful route in the country. It travels along steep hillsides and through beautiful forests, passing Lillafüred, the Fazola smelter and the trout farm of Garadna. In winter, to the great delight of the children, it runs under the name Santa Claus Train.

When visiting the Castle of Diósgyőr, you can experience the atmosphere of the Middle Ages and get an insight into the daily life of medieval people. The unique installations of the castle provide an opportunity to freely explore the building.

Lillafüred is located in a picturesque valley not far from the city centre. Rising above the trees, the nearly 100-year-old Hotel Palota, reminiscent of renaissance castles, provides its guests with wonderful views all year round, including nearby Lake Hámori. A special attraction is the waterfall of the Szinva stream, the tallest waterfall in the country, located in the gardens below the hotel.

The Cave Bath of Miskolc-Tapolca offers an extraordinary experience with its thermal water emerging from the mountains. Its curative effect is due to the karst water and the unique climate.





# MISKOLC

The Ellipsum Adventure and Outdoor Bath got its name from its five elliptical buildings. The imposing, themed halls guarantee the relaxation of adults, families and seniors.

The Avas Reformed Church and its separate bell tower are among the oldest historic monuments of Miskolc. The picturesque bell tower has long been used as an emblem of the city.

The Holy Trinity Greek Orthodox Church contains a 16-metre-tall iconostasis, the largest in Central Europe, depicting the eleven major holy days and 87 scenes from the life of Jesus.

The first Hungarian theater built of stone in present-day Hungary opened in 1823. The Miskolc National Theatre company produces 12–14 pieces a year, complemented by other events. Classical drama, opera, comedy, operetta and contemporary dance performances can be found in the repertoire.





**MISKOLCI**  
EGYETEM  
UNIVERSITY OF MISKOLC

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