

# BME Graduates' Yearbook

Academic Year 2021-2022

Volume 1



M Ű E G Y E T E M 1 7 8 2

Study in the European Union



# Study at BME!

*Your future career begins  
at the Budapest University  
of Technology and Economics*



# **Budapest University of Technology and Economics Graduates' Yearbook**

Academic Year 2021-2022

Volume 1



# **BME Graduates' Yearbook Academic Year 2021-2022 · Volume 1**

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# Farewell message

## from the Rector



Dear Graduate Students,

It is my pleasure to present this commemorative yearbook as a keepsake of your graduation from the Budapest University of Technology and Economics (BME) in the Academic Year of 2021-2022. This recent period has posed substantial challenges for students and for my teaching colleagues and staff alike, nevertheless it has also encompassed remarkable achievements and pleasant memories.

Finishing your studies despite all the limitations and uncertainties caused by the pandemic is one of these outstanding achievements. The diplomas you have worked for so tirelessly demonstrate to me and to the world the efforts you have made during these past years to become graduates of engineering, natural sciences, economics and management. You have every right to be proud of graduating from the BME, the University which gave the world three Nobel Prize laureates. Be proud, and let others know about the talent and professionalism you gained at BME. We are undoubtedly proud of you.

University graduation is always a momentous occasion for the graduates, their families, and their Alma Mater.

At the Budapest University of Technology and Economics, your Alma Mater and home in the last few years, we persistently strive for excellence: to be at the forefront of research, discovery, innovation, design, and, last but not least, education. This aspiration for perfection is well reflected in the latest QS University Rankings for Emerging Europe and Central Asia 2022, where BME is ranked 29th among 450 regional peer universities.

This year our university celebrates its 240th-anniversary academic year, serving our country and the world for such a long period by educating countless bright minds to shape our future. Since 1984, our university has continuously offered education in English. Students from every continent and almost every country in the world can benefit from their diplomas which they have proudly obtained at BME. As alumni of the Budapest University of Technology and Economics, you can be sure that the knowledge and skills that you have acquired will give you an excellent foundation for your future professional career. Please, be our ambassadors, and spread the word about the excellent education you received at BME.

In six of the eight faculties, we teach and train engineers of the future for the various branches of this beautiful profession. Nevertheless, engineering must serve a purpose, and most importantly, must serve humankind and the world. To achieve this noble goal, creating a European Engineering Degree system within the framework of the EELISA (The European Engineering Learning Innovation & Science Alliance)

consortium will be a major milestone. Within the EELISA cooperation, members - representing more than 170,000 students - focus on projects linked to industry and research (Industry 4.0) and green, smart and resilient cities. BME intends to contribute to national and international quality improvement of the technical higher education. This is a very ambitious goal, and this is what I also ask of you: to set ambitious goals for yourself and work hard to achieve them to make our world a better place.

In the past few years, we started to experience challenges people created for themselves. Climate change is already beginning to reshape our world, though the most serious consequences are yet to be seen. The pandemic has ruthlessly engulfed the entire global society taking the lives of our loved ones, family and friends, and acquaintances alike. However, we must also see the unparalleled progress these adversities catalyse, like the development of numerous vaccines in an unprecedentedly short time, a near-instant switch to full online education, and countless things, big and small, which we are now doing differently than merely two years ago.

Thus, more than ever, we need to be bold enough to think about our world differently and be braver than before to try solutions that have not been tried before. What was seemingly impossible in the past may be just what we need to save humankind from disaster. You proved resilience and determination during these unprecedented times. Now, as engineers, natural scientists and economic professionals, you will be in the vanguard of creating the world of our common future.

As you progress through your professional life, you will discover a multitude of new ideas, but also come across new challenges. Please remember that we will be here for you: to help overcome the obstacles and learn from you and work with you on novel solutions to problems. You are always welcome back to pursue further studies as master's or PhD students, as research fellows, or indeed, as industrial research partners. We will be here to work with you on future innovations.

Dear Graduates,

I wish you all the best for your future. May you be successful in your work, and may you find happiness with your family and friends. I hope you find the right balance for a long and fruitful life. My advice to you for the future is the following: be persistent and loyal, both in your professional and private life. That way, you can achieve happiness.

Goodbye, farewell, and hopefully, see you later.

Yours sincerely,

*Prof. Tibor Czigány*

Rector

# Farewell message

**from  
the Vice-Rector for  
International Affairs**



Dear Graduates,

I wish to congratulate you on the occasion of obtaining your diplomas, issued by one of the most prestigious universities of Central Europe. Your well-deserved diplomas attest and confirm your skills and qualifications as engineers, economists and managers.

You have come to the end of a journey spanning several years, but finally you have achieved the goal that you have set yourself: to study and obtain a diploma from the Budapest University of Technology and Economics. It is my pleasure to affirm that you have made it. I wholeheartedly wish that you will find satisfaction and enjoyment in your professional life, and I wish you good health and lots of happiness in your private lives. I hope you will fulfil your professional dreams and be open and inquiring experts in your respective fields. I hope you will become valuable and creative members of our societies and your communities. Nevertheless, the most important thing is that you find joy in what you do and find happiness.

Obtaining your diploma was no small feat. Indeed, it is undoubtedly one of the most momentous and defining moments of your entire life. Nevertheless, rest assured that your journey of studying and personal development has not ended. Lifelong learning will define your future career, which will ensure that on the solid foundations that you have laid at our university, you will build skills that will be of greater service to society. You will develop your talent, which can serve as a foundation for further inquiry.

With knowledge broadening at an unprecedented rate, and with technologies emerging seemingly out of nothingness like never before your future contributions to science and do your profession are more important than ever. Thus I ask you to have the courage and dedication to build on the foundations that we have laid down together and be brave enough and humble enough to build to the future of humankind.

As you advance through your professional career, you will undoubtedly feel the need to obtain expert advice on topics that may require it. Rest assured, we will be here. We will be here, with open arms and our open minds, welcoming you back, both as project partners for cooperation, as well as a source of knowledge that you can feel free to tap into. Our university has been a defining feature in the development of this country during the past 240 years of its existence. We have worked very hard to achieve the level of education that we can offer our students. Nevertheless, our pursuit of excellence does not stop here.

This is only the second occasion I have welcomed students to the graduation ceremony since I was recently appointed to the vice-rector position. The distinct goal of the university's leadership is

to increase the share of students in the English language programs at BME. Currently, 14% of the students at BME are enrolled in one of the English language programs across the eight faculties. Our objective is to increase this number to 18% by the end of the tenure of this current leadership, that is, by 2024. I ask of you that you act as ambassadors of your university: that you help spread the good reputation of this institution wherever life may take you, be it in your home countries or anywhere else on the globe.

I sincerely hope that you have had good experiences at this university and that you will fondly remember your second home, Budapest. I also hope that you have had the opportunity to travel around and get to know Hungary at least a little bit. Based on your good experiences, I hope you will help others make the right choice about their future education by telling them about your Alma Mater. Please tell young people about our university and that studying for a diploma at BME is a worthy pursuit, both at bachelor, master or a PhD level. We are also looking forward to welcoming young minds to part-time or exchange programmes covering one or two semesters. We hope that many students will be able to follow in your footsteps from all over the world.

I wish you good health, happiness and success, and I hope to see you again in the future.

*Prof. Emília Csiszár*

Vice-Rector for International Affairs



# Farewell message

from  
**Prof. Charaf Hassan**



Dear Graduate Students,

I would like to extend a warm welcome to you on the occasion of receiving the diploma from the Budapest University of Technology and Economics.

This coincides with celebrating the 240th anniversary of the foundation of BME.

This diploma will be an excellent passport and letter of recommendation for you, whether you are planning to pursue an academic career or continue your path as a player and shaper of your profession.

As I greet you, I remember the moment when I arrived to Hungary, 35 years ago, to a world that was completely unknown to me and without a suitcase, because it was lost on my arrival.

Even without a suitcase and despite the adventurous start, I have not forgotten that I came here to study, to learn, to make friends, to experience a new and different culture and to obtain a degree in engineering.

I received my degree in electrical engineering in 1992, exactly 30 years ago, and exactly in the very same hall where we are greeting you now.

After graduation, I continued my studies as a doctoral student and then started to work as a research fellow at my alma mater.

Now, as the Dean of the Faculty of Electrical Engineering and Informatics at BME, I am responsible for the education of more than 5000 students. Based on a strong science education that we have inherited, we provide competitive knowledge and pass on the values and the demand for quality and dedication.

You have been studying with us in a very critical period of time. Because of the pandemic, teachers and students have created and assembled together the rules of the online world of education. You have worked hard and proved your will to make this experience a successful one despite the lack in your social life.

I am confident that this has made us all stronger!

You have grown to love engineering in particular and Hungary in general. You've made friends, you've gained experience in Central and Eastern Europe and you've become open to a continuously changing and globalised world.



Hungary is strong when BME is strong!

Engineers, innovative technicals and economic specialists frame the economy of any competitive and stable country. Remember this when you return back home and make sure to invest the knowledge which you have acquired here in your country and wherever life takes you.

Be our ambassadors, keep your interest in the new technologies and don't be afraid of challenges.

Stay reminded, always to thank your parents, relatives and friends for their support and encouragement all through your educational path!

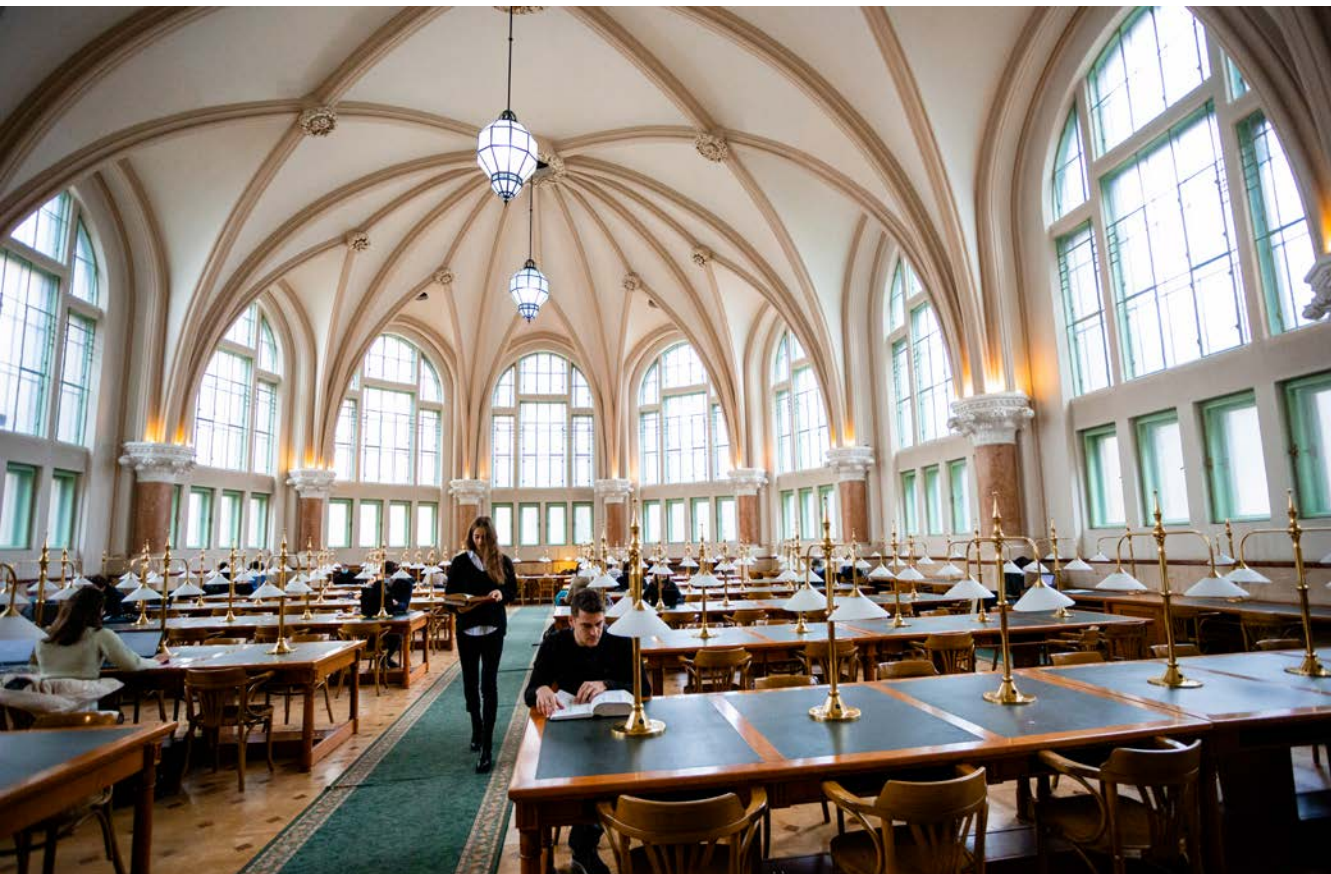
To conclude my speech, I will rebound to the analogy of the suitcase. What did BME put in your suitcase?

I hope the answer includes collaboration: your ability to work together, diversion: your ability to bridge different cultures, and inclusion: a big network of contacts.

Besides all of the above and with a bag full of collective memories and smiles, you will certainly prove that you have been a citizen of BME, a very proud one to be.

*Prof. Charaf Hassan*

Dean of the Faculty of Electrical Engineering and Informatics



# **Farewell message**

**from  
the Director  
of the Department  
of Academic Affairs  
for Education in  
Foreign Languages**



Dear BME Leaders, Dear Graduates, Ladies and Gentlemen!

First of all, at this excellent occasion, congratulations to the graduates on their graduation. Your persistent hard work allowed to and is acknowledged by the gaining of this diploma. As well, thank you to your parents, family, friends and all around you for the continuous and persistent support. Thanks are also due to the Hungarian scholarship programmes of Stipendium Hungaricum, Scholarship for Young Christian, for providing an excellent opportunity for many of our students to complete their studies.

I recall the time when I had the pleasure to issue your admission letter couple of years ago and now it is an honor to celebrate your graduation together.

You have a great degree, great diploma in your hands. You are now a graduate recognized all over the world, which you have achieved at the cost of persistent efforts. I can assure you that this degree is well recognized all over the world and with this degree you will stand anywhere in any circumstances.

What does this degree mean? Surely: knowledge, preparedness, experience, professional esteem.

And something more.

Let me briefly explain this through my personal story.

I remember when I started my studies: the situation with my roommate didn't start easily, we had a lot of discussions and disputes, but then we became friends. A difficult beginning of a beautiful friendship. We have gone through incredible things and we are still friends today. Friendship grown, we had new fellows, classmates, new friends; friends with similar feelings, common language, common aims and strong fellowship. Our network started to grow. One day I woke up and recognized I am part of a community, an international community with people from all over the world. This is our community!

I felt we were strong, we could reach anything we want! We can solve any and every problem, we can compete even in NASA competitions, we can launch satellites, we can build the biggest bridge ever, even from pasta, we can go for Nobel prize! And we can solve social challenges, provide solutions for climate change, sustainability issues, we can help in disaster prevention, let it be earthquake in Albania or red mud in Hungary.

This is the BME community.

You are member of the BME community, you are the BME community!



The BME community cares about each other, the BME community achieves its professional goals, provides space for innovation, and shares responsibilities in social challenges. This is the BME community!

And you are permanent member of the BME community forever! In addition to the professional value of the degree, this is what makes you and us special. This connection will never vanish.

Never forget that! We are always waiting you to be back, as student, as researcher, as visitor, as partner in cooperations. And we are encouraging you to be our community ambassador.

Once again, congratulations on your degree, enjoy the moment. And I wish you much success in your life, both professionally and privately.

*Dr. László Gergely Vigh*

Director, Department of Academic Affairs for Education in Foreign Languages



# Farewell message

**from  
the Students' Union  
(EHK)**



Dear Graduates,

I am delighted to be here with you and to have the opportunity to congratulate all of you on behalf of the Students' Union at the University. It is an honour and a great pleasure to have been invited to share this important occasion with you; to enjoy seeing the pride on the faces of those collecting their degrees: that sense of accomplishment mixed with no small measure of relief too, I am sure.

I would like to congratulate you the graduates and your partners, your families, and your friends as well. You have worked hard, demonstrated that you can do innovative research, can work tirelessly and earned degrees from BME – the leading technical university of Hungary. The room is packed with your friends and relatives, and every person here is and should be proud of you . . . of your accomplishments . . . and of the goals that you have reached.

I would also like to thank your professors who are excellent professionals and who helped you greatly along the way.

You have struggled through all the challenges BME and life in Budapest have set you. It is a great feat that you have passed all the challenges and obstacles of our university. I hope you made many friends along the way. Cherish them, keep them, they will probably be one of your most valuable assets in the future.

And this brings me to the point I would like to make: the importance of community. Being part of a community is an important part of your career. You need to find or build your community and most importantly keep it. Interacting with these communities will enable you to keep up with and contribute to your area. People often say that it is the smaller conferences, smaller groups where one learns more and has more satisfying interactions. I hope BME had made it possible for you to be part of community that you can and will be proud in the years to come.

I wish you every happiness in your well-earned achievement and I hope that you will each rightly celebrate in style.

*Bendegúz Papp*





# About



## the Budapest University of Technology and Economics

The Budapest University of Technology and Economics (BME) is proud of its more than two-hundred-year tradition of excellence in engineering education. It has developed into the largest institutions of higher education in Hungary and is one of Central Europe's most important research centres. The university considers scientific research and development of equal importance not only to its educational activities, but also to economic and social development.

The university takes special pride in the contributions made to science, engineering and culture by its faculty, graduates and researchers. The "elite-research university" status and award was given to the BME by the Ministry of Education and Culture, on 16th April, 2010.

Several Nobel Prize laureates have been associated with the BME:

|               |             |
|---------------|-------------|
| Dennis Gábor  | (physics),  |
| Eugene Wigner | (physics),  |
| György Oláh   | (chemistry) |

Notable personalities have also studied or taught at the BME:

|                     |  |
|---------------------|--|
| John von Neumann    | inventor of the computer,                      |
| Edward Teller       | nuclear physicist,                             |
| Leo Szilárd         | known for his work on nuclear chain reactions, |
| Marcell Breuer      | architect,                                     |
| Theodor von Kármán  | aerodynamic scientist,                         |
| Ernő Rubik          | inventor of the famous "magic cube",           |
| Donát Bánki         | co-inventor of the carburetor,                 |
| Károly Zipernowszky | one of the inventors of the transformer,       |
| Dénes Mihály        | one of the inventors of television             |



Today, 77 departments and institutes operate within the structure of eight faculties. Seven knowledge centres have been established. About 1.100 lecturers, 400 researchers, other degree holders and numerous invited lecturers and practicing specialist experts participate in the education and research at the BME.

Approximately 2 500 of the university's 23 000 students are from 60 different countries.

The BME issues about 70% of Hungary's engineering degrees.

The Goal of the BME is to graduate professionals who are capable of high-level creative work, who can organize and supervise production and infrastructure, and who are qualified to perform scientific research, participate in technical development, solve engineering problems and implement solutions. In additions to educating engineers and economists the university provides continuing training through:

- undergraduate programs in engineering and in business and management
- graduate programs in engineering specialization and in business administration and management
- refresher courses to inform practicing professionals about new scientific developments which affect their works
- Ph.D programs, guidance and instruction for scientific research fellows.







# Graduates

## of the Budapest University of Technology and Economics



# Faculty of Civil Engineering



The Faculty of Civil Engineering is the oldest faculty of the Budapest University of Technology and Economics and can trace its history back to the University's predecessor, the Institutum Geometricum, founded by Emperor Joseph II in 1782. Since then, thousands of engineers have graduated from this Faculty to work worldwide as educators, international researchers and engineering project managers.

The most essential service of the Faculty – education linked closely to research and engineering work – is reflected in the scientific activities of nearly 110 lecturers in 9 departments. They have contributed significantly to a professional, scientifically sound solution to diverse engineering problems. Out of the approximately 1200 students who study at this Faculty, ~300 students from abroad participate in the English language program annually.

The BSc engineering program in English leads to a BSc degree in four years. Two specializations are offered: Structural Engineering and Infrastructure Engineering. Graduates from the BSc Specialization in Structural Engineering are able to design, construct and organize the investments of mechanically, structurally and technologically complex structures in close cooperation with architects as well as transportation and hydraulic specialists. These structures include bridges and underground passages for transportation networks; power stations, cooling towers, craneways, transmission and telecommunication line structures; warehouses, industrial plants, and multi-storey buildings as well as hydraulic and water utility structures.

Graduates from the BSc Specialization in Infrastructure Engineering are able to design and construct urban and regional infrastructure, such as roads, railways, water and wastewater utilities, hydraulic constructions, and organize engineering activities in these fields.



The Faculty offers four MSc programmes with a duration of 1.5 years.

**MSc in Structural Engineering:**

- Specialization in Numerical Modelling
- Specialization in Structures
- Specialization in Geotechnics and Geology
- Specialization in Structures in Nuclear Power Plants

**MSc in Infrastructure Engineering:**

- Specialization in Highway and Railway Engineering
- Specialization in Water and Hydro-Environmental Engineering

**MSc in Land Surveying and Geoinformatics**

**MSc in Construction Information Technology Engineering**

These specializations are useful for research oriented students pursuing a doctoral degree in a PhD programme, as well as for the next generation of practicing leading engineers, who will solve special structural problems and innovate the construction procedures. The doctoral school of the Faculty offers a 4-year PhD programme in Civil Engineering and Earth Sciences.



# Farewell message

## on behalf of the Faculty of Civil Engineering



Your graduation is a result of years of hard work and dedication. The knowledge, skills, connections — friendships and professional ones — you gathered at BME will be with you in your further career. The staff of the Faculty of Civil Engineering is extremely proud of our graduates. Our Faculty runs its education program in English since 1985, but teaching in this program is still a privilege, knowing that our students will work as civil engineers all over the world, using the competences they gained at BME. We're also thankful for the motivation you gave us; it's hard to imagine a more inspiring workplace than the one with university students from such various countries and nations. We truly appreciate not only choosing our University but putting so much effort in studying of which result is your graduation.

A civil engineers' mission is to ensure safe, comfortable, energy efficient, and sustainable built environment for the public. We're sure you'll have remarkable achievements in your professional careers, the buildings and other civil engineering structures of which constructions you contributed to will be persistent for people. You can be proud of working for the public this way, and we are proud of BME's contribution to global civil engineering activities. In this way Hungary's reputation will be enhanced, too.

Since you've spent many years in Hungary, your development is not only about profession but culture, social life, and human connections, too. Based on your feedbacks, you enjoyed your stay in Hungary, especially in Budapest, hopefully you'll have multiple opportunities to come back or work with Hungarian colleagues.

Always remember BME, your Alma Mater, be proud of being a member of our alumni; we wish you all the best!

*Dr. Tamás Lovas*

Vice-Dean for Education,  
Faculty of Civil Engineering



# Farewell message

**from**  
**David Santiago**  
**Charry Motta**



Dear Vice-Rectors, Faculty Deans, professors, family members, fellow graduates and everyone who is present during this ceremony,

It is an honor for me to be part of this event and on behalf of my fellow graduates I would like to express my gratitude towards everyone who has contributed to this journey.

Professors, thank you for your assistance and expertise, for the guidance throughout these years of study.

Today it is a special day for us. The beginning of a new chapter in our lives. Being here is a direct result of the effort we have all invested. 4 years ago, I decided to leave my comfort zone, my country, and my family in order to pursue new opportunities in life, which led me towards this beautiful country full of new challenges, experiences and wonderful people I have had the pleasure of meeting along the way. It was one of the most memorable experiences of my life and I am grateful for everything I learned in the university. It is a journey with its own set of ups and downs. It is a process in which you must be consistent in your efforts and adapt to overcome any barriers you may encounter. Nonetheless, here we are in this ceremony, and this is a matter of celebration. Congratulations to every one of you, your effort is paying off and I hope you keep the consistency of your work.

*David Santiago Charry Motta*



**Prof. Tibor Czigány**  
Rector



**Prof. Emília Csiszár**  
Vice-Rector for  
International Affairs

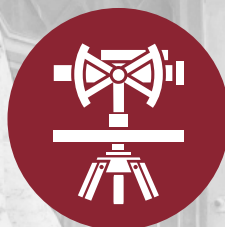


**Dr. Péter Bihari**  
Vice-Rector for Education



**Prof. János  
Levendovszky**  
Vice-Rector for Science  
and Innovation

# Faculty of Civil Engineering



**Dr. Szabolcs Rózsa**  
Dean, Faculty  
of Civil Engineering



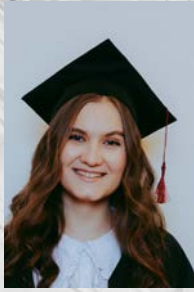
**Dr. Balázs Kövesdi**  
Vice-Dean, Faculty  
of Civil Engineering



**Dr. Tamás Lovas**  
Vice-Dean, Faculty  
of Civil Engineering



**Aizhan Kali**



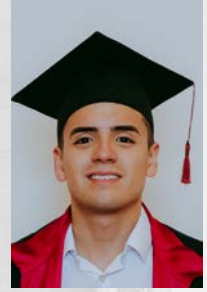
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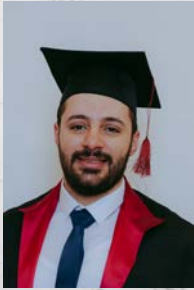
**Alla Likhonos**



**Angelito Martinez  
Nacion**



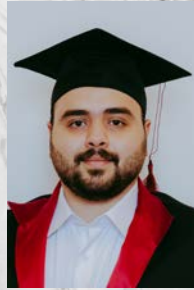
**David Santiago  
Charry Motta**



**Elie Abdul Nour**



**Felipe Costa  
Albuquerque**



**Housain M. I.  
Almasri**



**Husam Sameer  
Aneed Al-Naseri**



**Marapanharoth  
Kay**



**Mery Shukenova**



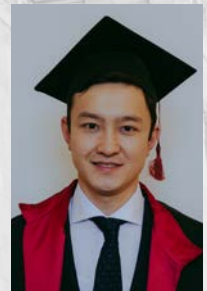
**Mokhtar Tantawi**



**Renato Jr. Lim  
Maglasang**



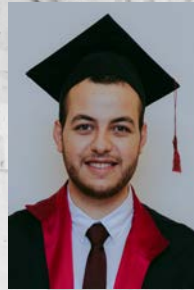
**Roberto  
Francisco Seibt**



**Serzhan  
Khamidullin**



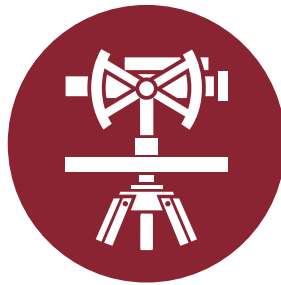
**Ulises Brito Nieto**



**Wesam Bassam  
Elias Albawalsah**



# Faculty of Civil Engineering



**Aizhan Kali**  
Faculty of Civil Engineering



**Alina Dvornikova**  
Faculty of Civil Engineering



**Alla Likhonos**  
Faculty of Civil Engineering



**Angelito Martinez Nacion**  
Faculty of Civil Engineering



**David Santiago Charry Motta**  
Faculty of Civil Engineering



**Elie Abdul Nour**  
Faculty of Civil Engineering



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**Housain M. I. Almasri**  
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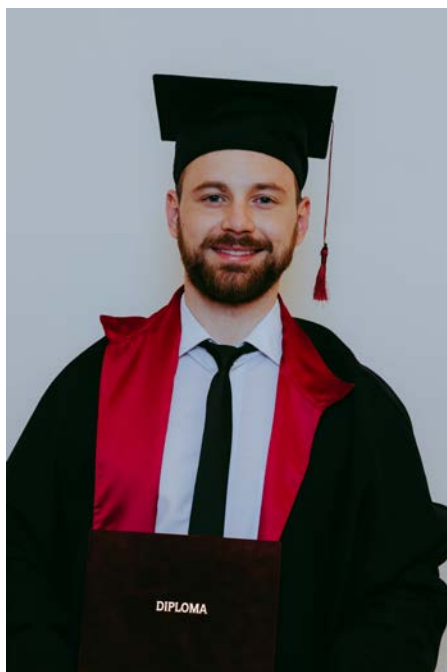
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Faculty of Civil Engineering



**Mokhtar Tantawi**  
Faculty of Civil Engineering



**Renato Jr. Lim Maglasang**  
Faculty of Civil Engineering



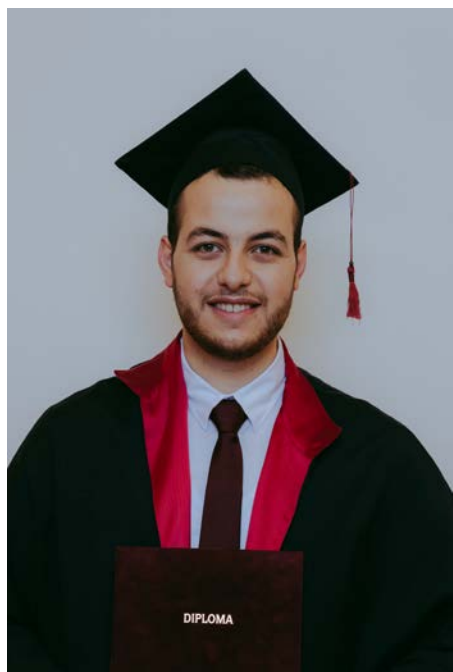
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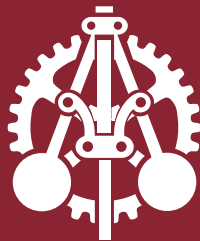
**Ulises Brito Nieto**  
Faculty of Civil Engineering



**Wesam Bassam Elias Albawalsah**  
Faculty of Civil Engineering



# Faculty of Mechanical Engineering



The Mechanical Engineering Programme at the Budapest University of Technology and Economics began in 1863, and the Faculty of Mechanical Engineering was established soon afterwards, beginning official operations in the academic year 1871-1872. The Faculty is justly proud of its continuous, progressive and more than 140-year history and now offers undergraduate and graduate programs in both Hungarian and English.

For more than five years, the Faculty of Mechanical Engineering has offered a 7 semester undergraduate BSc degree program in English. The new two-year graduate program in English, leading to an MSc degree started in February 2009, and students can start their study either in the fall and in the spring semester. Individual postgraduate academic and research programs, which are usually completed in three to our years, are available for those who already have an MSc degree and wish to pursue a PhD degree.

The undergraduate BSc program of the Faculty of Mechanical Engineering is designed to continue a tradition of excellence by:

- providing well-grounded and broad knowledge that graduates of this Faculty can apply immediately in their work and also use as the basis for further studies; and
- graduating competent engineers who are not only masters of their profession, but also possess an ethical philosophy of engineering based on accuracy, punctuality and reliability as well as a respect for the human element.

**The goals of our MSc and PhD Programmes are as follows:**

- to train creative, inventive mechanical engineers who can apply the engineering skills and the knowledge they have gained from the natural sciences on a state-of-the-art level; and
- to foster the development of leaders in engineering research and development.

The courses in the Mechanical Engineering Modelling MSc-programme deal with those time-dependent problems of mechanical engineering, which typically require the efficient modelling of tasks in order to access the continuously developing methods of computational engineering. As the joke says: 'One designed by a civil engineer starts moving that is bad, one designed by a mechanical engineer does NOT move that is bad, too.' Modern computational methods are very popular since they show their easy-to-use interface for engineers. This often causes misunderstanding and disappointment during the naive applications of engineering software.



Computational methods are reliable if they are properly tested and the principles of their applied algorithms and procedures are understood. This is analogous to the modern cartoon industry: the 25 pictures of one second of a cartoon can be drawn by computers if the first and the last picture of that second are designed for them by the artist but the computers will totally fail if they have to draw the cartoon without any reference picture, or based on the first (or last) picture only.

The tasks of mechanical engineers that typically require the modelling of machines in motion and that of time-varying processes are based on solid and fluid mechanics, thermodynamics and electronics. Modelling means the understanding and active application of the related theories, which are supported by differential equations and numerical methods in mathematics. Modelling needs also experimental work during the research-development-innovation process in case engineers do not have enough information about the motions and processes they want to capture by a model. Finally, modelling is also affected by the engineers knowledge in design, technology, and informatics, since the model should not be so complex that the available software is unable to solve them within reasonable time and for reasonable cost.

The above principles affected the formation of this master course. After the brief summary of the required fundamental courses (mathematics, mechanics, thermodynamics, electronics, control and informatics), the students have to choose a major and a minor specialization from the following list of modules:

**1. Solid Mechanics                      2. Fluid Mechanics                      3. Thermal Engineering                      4. Design and Technology**

The possible combinations provide flexibility among more research oriented knowledge (combinations of the first 3 modules), and the development oriented one (major from modules 1-3 and module 4 as minor or vice versa).

This course is running in English only. It is based on the foundations provided by the longstanding positive traditions of some former successful courses of the Faculty of Mechanical Engineering at BME. This course is also compatible to many master courses in mechanical engineering in the European Union (see, for example, U Bristol, U Bath, ENS Cachan, TU Karlsruhe, U Hannover, TU Munich).

Our Faculty offers its engineering education excellence rooted in, and being fully aware of its unique position of training decision makers, and technological leaders of tomorrow. Our aim in the course of the training is to qualify our graduates to perform as competent problem solvers, good communicators, excellent team workers, successful project leaders, and - above all - ethical participants of the world around them – both locally and globally.



# Farewell message

## on behalf of the Faculty of Mechanical Engineering



Ever since enrolling at the BME, you have heard the addressing “Dear Colleagues!” countless times and, please, believe me, it was not just an empty phrase from your instructors and mentors.

At the Faculty of Mechanical Engineering, we use this addressing to express that, from the very beginning, we not only respect you and your commitment to become mechanical engineers but also consider you as equal partners. Just like you, we have given the best of our knowledge, and we celebrate your diplomas and your inauguration as engineers together with you on this day. First of all, I congratulate you on your success!

The World has changed a lot recently; both our own and our beloved one’s health was endangered. However, the main slogan of the Faculty of Mechanical Engineering proved to be true again: “a mechanical engineer can solve anything”. With your help, we successfully merged distance and in-person learning swiftly, and no one suffered delay due to this unprecedented situation.

Dear Colleagues!

Entirely new young people are standing here, replacing the ones enrolled a few semesters ago: you have mastered the competencies and skills that make you engineers. So now the world opens up: create, innovate, use your knowledge to advance humanity, find and serve righteous purposes. I look forward to seeing great things from you!

*Prof. Imre Orbulov*

Dean

Faculty of Mechanical Engineering

# Farewell message

from  
**Haris Mehraj**



Honourable Vice-rector, Deans, The academic staff, and all the fellow graduates,

Thank you, Office of International Relations, for giving me this opportunity to speak on behalf of the Faculty of Mechanical Engineering.

Well, it was a long journey. I recall my first day in Budapest whereby being a newbie to this community almost made me doubt my choice before long, though I fell in love with this beautiful city, its culture, the university, and the people around. Then as we all got further in our programs we faced unprecedented challenges, doubts about who we are, why we are here and the struggle to balance academic work and life. Today I feel rich as I recount these two years. I learned that when we connect the dots of our experiences in life, they join to make something beautiful. I am a thousand miles away from home, but I feel connected to this world like never before. I have made friends from diverse cultures and in them, I found a family.

I feel proud of being able to learn and practice from one of the best Mechanical engineering faculties around the world and being a graduate of BME. I would like to give credit to all the professors, who were generous enough to impart their skills to us and guide us on the right path of academic and professional development. I believe that this academic institution has demonstrated its commitment to preparing students with the ability to excel in their respective careers and making their life full of purpose.

This journey at BME has been like a Rubik's cube, a colorful puzzle that can be so tedious yet exhilarating when we finally solve it.

As we leave this campus let us appreciate the immense support from our faculty and friends. We all are excited yet nervous about our next chapter in life and I want to say let's continue with the same curiosity and passion for a happy, healthy, and purposeful life ahead.

I wish you all very good luck in your future endeavors. Congratulations everyone.

*Haris Mehraj*



**Prof. Tibor Czigány**  
Rector



**Prof. Emília Csiszár**  
Vice-Rector for  
International Affairs

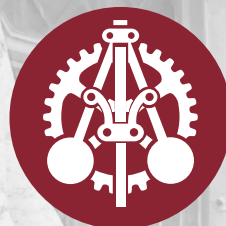


**Dr. Péter Bihari**  
Vice-Rector for Education



**Prof. János  
Levendovszky**  
Vice-Rector for Science  
and Innovation

# Faculty of Mechanical Engineering



**Prof. Imre Orbulov**  
Dean, Faculty of  
Mechanical Engineering



**Dr. Csaba Hős**  
Vice-Dean, Faculty of  
Mechanical Engineering





**Fatma Zayed**



**Gal Lahmi**



**Haris Mehraj**



**Jan Pascal  
Potoradi**



**Jianfeng Hou**



**Kangjian  
Huang**



**Kevin Martin  
Suin Uyaguari**



**Leonardo  
Tano**



**Lirim Shaqiri**



**Mohammad  
Ibrahim Azmi  
Darwish**



**Qiaoyi Li**



**Xiaobao Hui**



**Yifan Luo**



**Zijian Li**

# Faculty of Mechanical Engineering



**Fatma Zayed**  
Faculty of Mechanical Engineering



**Gal Lahmi**  
Faculty of Mechanical Engineering



**Haris Mehraj**  
Faculty of Mechanical Engineering



**Jan Pascal Potoradi**  
Faculty of Mechanical Engineering



**Jianfeng Hou**  
Faculty of Mechanical Engineering



**Kangjian Huang**  
Faculty of Mechanical Engineering



**Kevin Martin Suin Uyaguari**  
Faculty of Mechanical Engineering



**Leonardo Tano**  
Faculty of Mechanical Engineering



**Lirim Shaqiri**  
Faculty of Mechanical Engineering



**Mohammad Ibrahim Azmi Darwish**  
Faculty of Mechanical Engineering





**Qiaoyi Li**  
Faculty of Mechanical Engineering



**Xiaobao Hui**  
Faculty of Mechanical Engineering



**Yifan Luo**  
Faculty of Mechanical Engineering



**Zijian Li**  
Faculty of Mechanical Engineering

# Faculty of Architecture



The Faculty of Architecture focuses on training highly professional experts in architectural engineering who are aware of the social and cultural implications of their profession. Versatility is emphasised so that students will gain fundamental knowledge and abilities in every possible field of architecture and be able to find work in a highly competitive job market, and in any building- or design-related area of consulting, construction, and management.

Graduates of the Faculty of Architecture are qualified for a broad spectrum of architectural occupations:

- Design, construction and maintenance of residential, public, industrial and agricultural buildings;
- Reconstruction and the preservation of historical monuments;
- Urban design and settlement planning; and
- Administration of all these activities.

The curricula were organised on Swiss and German models. The Faculty has maintained these traditions for the last 40 years but provides additional European and international dimensions through guest lecturers from abroad, topical short courses, workshop seminars and exchange programs.

The Academic Programs of the Faculty of Architecture taught in English are in full conformity with the Intergrated MSc Program and MSc Program provided in Hungarian, which after two years practice and experience are accepted for access to EUR-ING title.

Students, both International and Hungarian, who have a command of both languages can choose from either program. The participation of Hungarian students in the program given in English has obvious advantages. It eases the integration of international students into the society, which surrounds them during the years of their studies. It also attracts students from European, American and other universities worldwide to study in Budapest within the framework of the International Student Exchange Program and other agreements.

Hungarian students likewise gain the opportunity to study at schools of architecture abroad. These exchanges will become a powerful factor in achieving real convertibility among educational system worldwide and, eventually, mutual international recognition of degrees.

### **Graduation**

Graduation from the University is based on the successful completion of examinations in all subjects and on the successful defence of a diploma project in front of a Final Examination Board. The examinations are public and the Board consists of professors and eminent specialists in the profession. Diploma projects are prepared in the last semester under departmental guidance and can be submitted only by students with an “absolutorium” (university leaving certificate). The diploma project is expected to reflect its author’s familiarity with technical and aesthetic knowledge fundamental to architectural practice, and his/her creativity in applying it. Currently, international agreements make it possible for certain Hungarian students to prepare and defend their diploma projects in the university of another country. Students from abroad can correspondingly prepare and defend their thesis projects under the guidance of the Faculty of Architecture at the Budapest University of Technology and Economics.



The Academic Programs of the Faculty of Architecture in English language are as follows:

### **General Course in Architecture (Preparatory Program)**

The 1-2 semester program called General Course precedes the Integrated MSc Program. It is designed to develop the skills of students from abroad so they will be at no disadvantage in meeting the Faculty's exacting educational standards. Students are introduced to various aspects of the profession they have selected, and they concentrate on studying English and basic technical subjects such as mathematics and freehand drawing. Successful fulfilment of the General Course is equal to a successful Placement Test. The partial fulfilment of the General Course doesn't replace the Placement Test. Students who successfully pass the Placement Test can start the Integrated MSc Program. Faculty of Architecture

### **Integrated MSc Program in Architectural Engineering**

The Integrated MSc Program is a five-year (10 semester) long training and leads directly to an MSc degree in Architecture and Architectural Engineering (Dipl. Ing. Arch.). For integrated MSc degree (10 semesters) students have to accumulate min 300 credit points. The Program requires to accomplish obligatory subjects and elective subjects too. Currently there isn't BSc program offered in English language.

### **Preparatory Year for Master of Science Program in Architecture (Pre-MSc Program)**

The 2 semester program called Pre-MSc Program precedes the MSc Program. The Pre-MSc Program is offered for students who have earned BSc degrees in other schools of architecture and could legally join the MSc Program, but could not successfully complete the entrance exam of the MSc Program. Based on the different kind of BSc studies there might be differences in their preparedness. The aim of the Program is to equal these differences and prepare the students for the MSc Program. Students are offered to join the courses of the Integrated MSc Program. There are two kinds of courses in the Program: obligatory and suggested courses. Successful fulfilment of all the obligatory courses is equal to a successful entrance exam. Suggested courses are tendered to develop the skills of students in various fields.

### **Master of Science Program in Architecture (MSc Program)**

MSc Program, which is a two-year (4 semester) long training and leads to an MSc in Architecture. Students who have earned BSc degrees in other schools of architecture can join the MSc Program. For MSc degree (4 semesters) students have to accumulate min 120 credit points. The Program requires to accomplish obligatory subjects and elective subjects too. During the MSc Program, students can choose after the first semester from the following specialisations:

- Real-Estate Development and Facility Management
- Architectural and Interior Design
- City Design
- Structural Design

Note: The Faculty of Architecture reserves the right of changing the Curricula. Specialisations have a minimum required number of students to start.

The Faculty of Architecture offers Postgraduate studies in its two Doctoral Schools.

### **Doctoral Studies PhD (Csonka Pál Graduate School)**

Studies in Csonka Pál Graduate School cover a wide range of scientific and engineering topics related to architecture, including urban sciences, energetics and sustainability, architectural heritage and history of architecture, structures, applied mechanics and applied geometry. The focus of this school is independent research under personal supervision.

### **Doctoral Studies DLA (Doctoral School of Architecture)**

The program of the Doctoral School of Architecture leads to the PhD-equivalent degree Doctor of Liberal Arts (DLA). The four year-long curriculum strongly focuses on creative architectural design supported by project-based research.







# Farewell message



## on behalf of the Faculty of Architecture

Dear Graduating Students,

On behalf of all teachers and members of the Faculty of Architecture, I would like to congratulate you on your graduation.

The road to this university degree was not easy, especially this last four extraordinary semesters during the pandemic. You worked extremely hard to fulfil all of the requirements. You think that from today on, you will never draw or work at night again. Unfortunately, I have to say, you will. You have chosen a profession where you will sometimes be forced to work a lot and spend the night before submitting a plan. But the joy of the work done, the beauty of the drawing or the finished building will make you forget the great amount of effort.

I wish you to be a successful architect, planner, structural designer, constructor, landscape artist or entrepreneur. There are so many possibilities before you. This degree of BME is a useful “passport” to your future professional career with your knowledge and special experiences, also with the relationships and lifelong international friendships you made here at BME. So I wish you a lot of success, recognition and health in both your professional and private life.

I hope you will come back later as postgraduate students or as scientific or architectural partners, or simple to show your family the city and university where you spent such important and memorable years.

Finally, let me share with you an important message of Kurt Vonnegut, my favourite writer:

„Don’t worry about the future. Or worry, but know that worrying is as effective as trying to solve an algebra equation by chewing bubble gum.”

*Dr. Ágnes Gyetvai Balogh*  
Vice-Dean for International Education  
Faculty of Architecture

# Farewell message

from  
**Farah Khaled Amin  
Bazian**



Honourable Vice-rector, Deans, BME professors, staff, Ladies and Gentleman,

When I was informed that my speech was chosen to be published in the Graduation Book on the behalf of all graduating students of my Faculty, I felt truly honored and blessed. It is really as special as standing here before you, which has been on my mind since our first week at BME, at the welcoming ceremony, after seeing some students giving their speeches and expressing their feelings. I was like, I hope I will be here standing on that podium, one day! Well, guess what, this is pretty close ;)

I would like to thank you for giving me this amazing opportunity. Honestly, this whole ceremony feels like a dream, graduating in person has a different flavor. As cliché as it may sound, this pandemic has taught us not to take anything for granted and to cherish the simplest pleasures in life.

So please allow me to seize the moment and thank each and every one in the audience, the professors, the parents, the partners, the families, the friends, and our beloved ones, although you are wearing your masks and I cannot see your faces fully, I could tell that you are smiling, and you are as happy and proud as we are through your eyes!

Also, a huge thank you goes to the ones who are watching us online and couldn't physically be here with us. It feels great sharing this with you and I know you are proud! On top of that list are my parents and my sister, who have been constantly providing support and showering me with love.

Throughout this journey, I certainly grew up and learned a lot. Let me tell you, it wasn't easy at all, facing all of this away from home as an international student, and it was definitely challenging. But what made it easier and added color to my life are THE AMAZING PEOPLE I've met here in Budapest, who basically became a second family that I'm forever grateful for. Some of them are actually graduating today, some of them are in the audience and others are watching online.

Last but not least, thank you BME, and best of luck to all the graduates! WE MADE IT! I sincerely wish you an awesome future ahead, we all know it's going to be full of challenges, but as BME graduates, we are up to it, I'm sure we can all agree on that!

*Farah Khaled Amin Bazian*



**Prof. Tibor Czigány**  
Rector



**Prof. Emília Csiszár**  
Vice-Rector for  
International Affairs



**Dr. Péter Bihari**  
Vice-Rector for Education



**Prof. János  
Levendovszky**  
Vice-Rector for Science  
and Innovation

# Faculty of Architecture

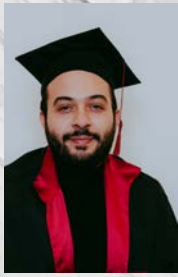


**Prof. György Alföldi**  
**DLA**  
Dean, Faculty  
of Architecture



**Dr. Ágnes Gyetvai  
Balogh**  
Vice-Dean, Faculty  
of Architecture

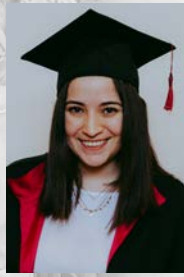




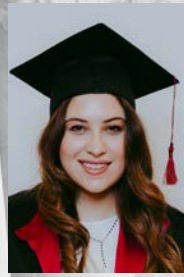
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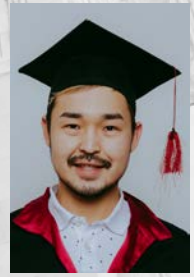
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Benziadi**



**Camila Michelle  
Lopez Zarate**



**Dina Kanj  
(Moh'd Nour)  
Junblatt**



**Dinsultan  
Aitbayev**



**Dua'a Saeed  
Mohammad  
Abu Alkheir**



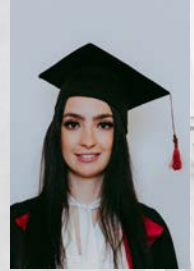
**Farah Khaled  
Amin Bazian**



**Gabriella Dalita  
Brix Monteiro**



**Hafize Pinar  
Yanikkol**



**Hala Alshimali**



**Minatullah Taha  
Sami**



**Mohammad  
Fares Whby**



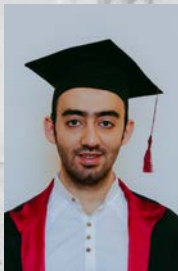
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Takisheva**



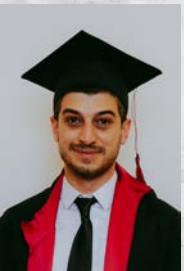
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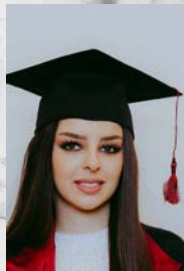
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Hamdan**



**Obada Sharfo**



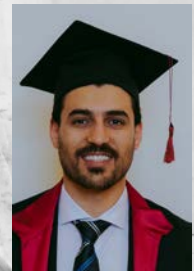
**Omid Abbasi**



**Sama Talat  
Hameed**



**Sergio Manuel  
Baron Soracipa**



**Serhat Yigit**



**Solongo  
Bayarkhuu**

# Faculty of Architecture



**Adi Jamal Ghaleb Haddad**  
Faculty of Architecture



**Ahlem Benziadi**  
Faculty of Architecture



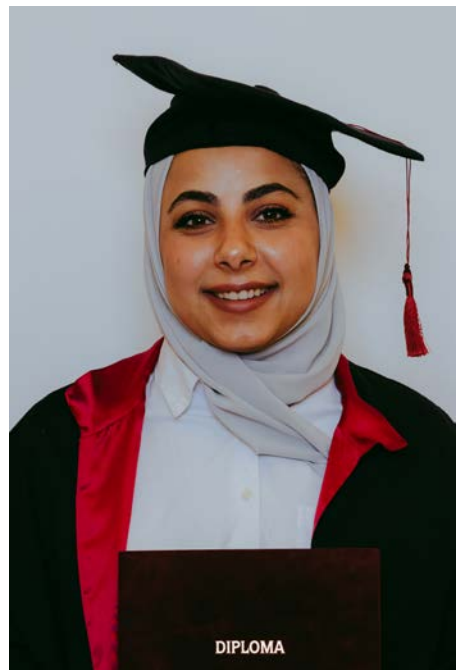
**Camila Michelle Lopez Zarate**  
Faculty of Architecture



**Dina Kanj (Moh'd Nour) Junblatt**  
Faculty of Architecture



**Dinsultan Aitbayer**  
Faculty of Architecture



**Dua'a Saeed Mohammad Abu Alkheir**  
Faculty of Architecture



**Farah Khaled Amin Bazian**  
Faculty of Architecture



**Gabriella Dalita Brix Monteiro**  
Faculty of Architecture



**Hafize Pinar Yanikkol**  
Faculty of Architecture



**Hala Alshimali**  
Faculty of Architecture





**Minatullah Taha Sami**  
Faculty of Architecture



**Mohammad Fares Whby**  
Faculty of Architecture



**Nazym Takisheva**  
Faculty of Architecture



**Nouhaila Abbas**  
Faculty of Architecture



**Nouras Hamdan**  
Faculty of Architecture



**Obada Sharfo**  
Faculty of Architecture



**Omid Abbasi**  
Faculty of Architecture



**Sama Talat Hameed**  
Faculty of Architecture



**Sergio Manuel Baron Soracipa**  
Faculty of Architecture



**Serhat Yigit**  
Faculty of Architecture



**Solongo Bayarkhuu**  
Faculty of Architecture

# Faculty of Chemical Technology and Biotechnology



The education of chemical engineers and chemists has a long-standing tradition in Hungary. Hungary's earliest chemistry department was established in 1763 at the Selmecbánya Mining School, the first school to offer practical instruction in the chemical laboratory. In 1769, a common department for chemistry and botany was founded at the University of Nagyszombat, which was resettled to Buda in 1777, and later to Pest. In 1846, the Department of General and Technical Chemistry was founded at Joseph II Industrial School, one of the Budapest University of Technology and Economics's predecessor institutions. Education of chemical engineers, separate from that of mechanical and civil engineers, reaches back to the academic year 1863-1864.

The Royal Joseph Polytechnic became a technical university in 1871. The academic freedom granted by this university-level status allowed students to freely select the subjects they wished to study. However, the need for an interrelated, logical sequence of subjects soon became evident, so in 1892 a compulsory curriculum and timetable was introduced. From the foundation of the Faculty until 1948, only a four-year-term of studies, without specializations, was offered. Following the educational reforms of 1948, the departments of Inorganic Chemical Technology, Organic Chemical Technology, and Agricultural and Food Chemistry were established. The Inorganic Chemical Technology Department is no longer a part of the Faculty because in 1952 its tasks were taken over by the University of Chemical Industry in Veszprém. Further reforms in the 1960s extended chemical engineering studies to the MSc level and introduced the range of specialized studies identified below. A PhD program has also been established. Studies in English at the Faculty of Chemical Engineering began in the academic year 1985-1986.

Students in the BSc program receive a thorough introduction to areas basic to chemical engineering before they begin their specializations in the fifth semester. Courses of the following branches are available to students learning in the English formation, depending on the number of applicants (at least 3 applicants) at BSc (7 semesters) levels: Chemical and Process Engineering, Industrial Pharmaceutics, Materials Science.



Students in the BSc chemical engineering program receive a thorough core curriculum. These include natural sciences as chemistry, mathematics and physics, and engineering fundamentals as unit operations, process control. We assure, that our students besides a profound theoretical knowledge, can acquire up-to-date laboratory skills, get acquainted with the machines and apparati used in the chemical industry, know the principles needed for their optimal operation, and develop expertise in a more specific technology within the chemical, food and light industries.

The studies are completed by performing an individual bachelor thesis project and submission of the thesis. Graduation is completed after all required credits are gained, by a successful defense of the thesis and a final examination before the Final Examination Board of professors and eminent industrialists.

In the Msc formation (4 semesters) The Modern Chemical Technology specialization offers the following elective modules (groups of subjects): analytics, biotechnology, materials science, pharmaceuticals, technology.

Chemical engineering MSc students get a high level knowledge in natural sciences, engineering, informatics and economics as well as in humanities. On an international comparison our curriculum is chemistry focused, and it is especially suitable for motivated applicants having carrier plans in research and development or project management.

The studies are completed by performing an individual master thesis project and submission of the thesis. Graduation is completed after all required credits are gained, by a successful defense of the thesis and a final examination before the Final Examination Board.

All programs are organized in the credit system providing a relatively high degree of freedom in subject selection, but prerequisites (at BSc level) have to be taken into account when the individual study program is set. Further information on the Faculty can be found at our website: <http://ch.bme.hu/en/>



# Farewell message

## on behalf of the Faculty of Chemical Technology and Biotechnology



First of all, on behalf of the community of the Faculty of Chemical Technology and Biotechnology I would like to congratulate you on your graduation. You have obtained a diploma of BME, which is accepted and recognized all over the world. Be proud of this diploma, and be also proud of yourself, that you could earn it working hard during the semesters.

Generally it is fundamentally hard, if somebody learns in a foreign country, in a foreign language, even in a foreign cultural environment. You have started your studies here several semesters ago, and I hope, as the semesters passed, this foreign environment became more and more familiar, as it generally happens class by class, year by year. You have found new friends, you could know a little bit Hungary through the events organized for you, or by your own curiosity. I think this helped you in the adaptation resulting that the higher semesters became a little bit easier. But in your case these last semesters became, however, again extremely hard because of the pandemic situation. Chemistry is a practice-oriented scientific area which can hardly be learned well online, without the manual work in different laboratories. Thus these semesters required extra and tedious activity not only from you, but from the teachers, too. But fortunately, you could successfully overcome this last big barrier.

Now, using this big, but usual cliché, you have reached a new milestone. Some of you start to find a job, or already have it, while some of you continue learning in a master or PhD formation.

I hope, that as in the previous years, some of you want to apply to our further formations. We are ready to continue the common work, hopefully under normal conditions.

Of course many of you will start to work. Nowadays there are big problems all over the world, which require the action of innovative and creative engineers. To avoid the emerging pandemic situations, or at least to reduce their seriousness, to keep the environment clean with cleaner and safer processes, to develop more efficient and cleaner methods for the energy production and consumption, simply to keep the sustainability of the Earth while making the daily life easier, so many challenges standing in front of the chemists. To resolve these problems, or at least most of them, this is a very big and important task for you. So don't be afraid, you will have a plenty of jobs in the future.

All in all, whatever are your future plans, I wish you in my name and also in the name of our faculty a happy and successful professional and private life. And keep in your good mind BME, your Alma Mater.

*Prof. Zoltán Hell*

Course Director

Faculty of Chemical Technology and Biotechnology

# Farewell message

from  
**Naran Bataa**



Dear Vice-rector, Deans, Professors and Graduates,

It is my honor to write a graduation letter on behalf of my fellow graduates. I want to take this opportunity to thank all professors, teaching assistants, and administrators who have supported us throughout our journey. Congratulations graduates, we have successfully made it through these unforgettable years!

It seems like the day we were giving our vows was only yesterday. But here we are, ready to graduate with our loved ones next to us. It might feel like the time we have spent here was long or maybe short. However you feel, I am certain that our memories, friendship, and meaningful connections we have created here will last lifelong. The obstacles we have faced during these hectic times made us stronger, and the accomplishment of overcoming those hurdles made us strive for more. I hope that all of us have gained the knowledge and professional skills that will guide us through the next stages of our lives. I would like to thank Budapest University of Technology and Economics for allowing us to challenge and develop ourselves.

I am sure that this is not our final stop. This graduation has already shown us what we are capable of when we commit ourselves to our goals. As we all continue with our lives on different paths, let us take each obstacle in our way with confidence to tackle and shape our futures and living society.

Once again, congratulations to each of you, and may you all succeed in the years ahead!

*Naran Bataa*





**Prof. Tibor Czigány**  
Rector



**Prof. Emília Csiszár**  
Vice-Rector for  
International Affairs



**Dr. Péter Bihari**  
Vice-Rector for Education



**Prof. János  
Levendovszky**  
Vice-Rector for Science  
and Innovation

# Faculty of Chemical Technology and Biotechnology



**Prof. András  
Szarka**  
Dean, Faculty of  
Chemical Technology  
and Biotechnology



**Prof. Zoltán  
Hórvölgyi**  
Vice-Dean, Faculty of  
Chemical Technology  
and Biotechnology





**Anh Duc Nguyen**



**Battuya Tungalag**



**Dana Atabekova**



**Danielle Verde  
Nolasco**



**Fangyi Zhang**



**Naran Bataa**



**Saeid Ghanbari**



**Sheng Luo**



**Suriphon  
Siwongsa**



**Tri Hieu Nguyen**

# Faculty of Chemical Technology and Biotechnology



**Anh Duc Nguyen**  
Faculty of Chemical Technology  
and Biotechnology



**Battuya Tungalag**  
Faculty of Chemical Technology  
and Biotechnology



**Dana Atabekova**  
Faculty of Chemical Technology  
and Biotechnology



**Danielle Verde Nolasco**  
Faculty of Chemical Technology  
and Biotechnology



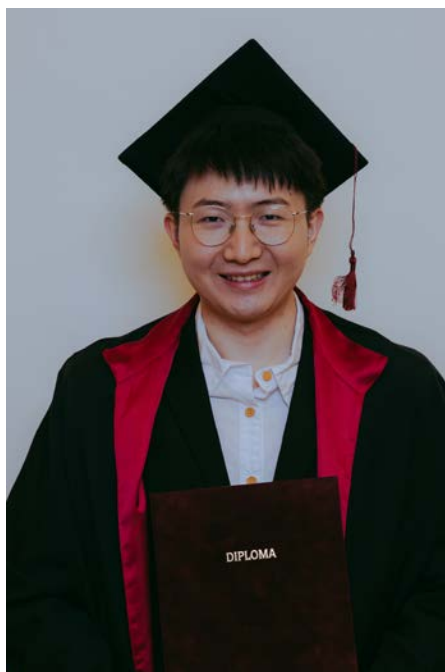
**Fangyi Zhang**  
Faculty of Chemical Technology  
and Biotechnology



**Naran Bataa**  
Faculty of Chemical Technology  
and Biotechnology



**Saeid Ghanbari**  
Faculty of Chemical Technology  
and Biotechnology



**Sheng Luo**  
Faculty of Chemical Technology  
and Biotechnology



**Suriphon Siwongsa**  
Faculty of Chemical Technology  
and Biotechnology



**Tri Hieu Nguyen**  
Faculty of Chemical Technology  
and Biotechnology



MŰEGYETEM 1782



# Faculty of Electrical Engineering and Informatics



The Faculty of Electrical Engineering, founded in 1949, has been renowned for excellence in research and education throughout the years of changes in the scope of engineering. Over this period, the faculty has earned a widespread international reputation for its high academic standards and scientific achievements.

Spearheading the movement to establish a modern education system, it has offered a comprehensive English curriculum since 1984. In 1992 the name of the faculty was changed to Faculty of Electrical Engineering and Informatics to recognize the growing importance of computer science. The education programs in English include a 3.5-year BSc, a 2-year MSc, and a 4-year Ph.D. program in the fields of electrical engineering and computer science engineering.

The undergraduate BSc Program (7 semesters) aims at providing comprehensive knowledge with sound theoretical foundations. The specializations in Electrical Engineering are infocommunication systems, embedded and controller systems, and power engineering. Studies in Computer Science and Engineering include specialization in infocommunication and software engineering. Each specialization contains courses focusing on the field of interest followed by a laboratory course and project subjects.

The MSc Program (4 semesters) advances electrical engineering, computer science, and information technology knowledge. The Electrical Engineering program offers major specializations in embedded systems, infocommunication systems, and electrical machines and drives; while the Computer Science and Engineering program offers specializations in Applied Internet Architecture and Services, and Applied informatics.



The post-graduate Ph.D. program is available in all domains offered in the MSc program.

Since research and development require innovative engineering expertise, one of the major concerns of the faculty is to endow students with high-level mathematical skills in modeling complex engineering systems. This objective implies the use of the system and algorithmic theory in addition to thorough knowledge in physics. The search for optimal solutions in the highly complex architectures necessitates not only engineering but also economic considerations.

Several strategies have been designed to help students develop high-level mathematics, physics, and computation skills. Besides theoretical knowledge, they need to carry out design and development activities in communication, instrumentation, and power industries to further perfect their practical skills.

Scientific groups are formed to encourage the students to do independent but supervised laboratory work. The set of the project subjects is one of the core parts of the studies which are dedicated to independent problem solving with the armory of modern workstations and software packages. The expertise of handling these tools is inevitable in pursuing an engineering career.

The faculty maintains close contact with well-known multinational companies and smaller industrial players to strengthen the transfer of knowledge and know-how between the university and industry. As a result, many industry experts offer their experience and knowledge as part-time lecturers, project supervisors, and examination committee members.



# Farewell message

## on behalf of the Faculty of Electrical Engineering and Informatics



Dear Graduating Students, Ladies and Gentlemen,

I would like to congratulate you on your graduation on behalf of all the BME Faculty of Electrical Engineering and Informatics citizens.

The road to a technical university degree is not easy. Furthermore, the ongoing pandemic required extra effort from both students and teachers. We learned new terms in epidemic management, collaborations, organization of education, and inquiries. It was real teamwork, learning the new solutions together with the students. And finally, you have fulfilled the requirements and expectations that make the diplomas obtained from us valuable.

When you entered the university as a first-year student, the opening celebration speeches drew attention to the following:

- You will be a student of a university with a long history.
- We will teach you to think systematically.
- You will acquire theoretical and practical knowledge that enables you to become an international-level engineer.
- In addition to learning, you can also become a member of communities.

The graduation ceremony is another important milestone; graduation is the coronation of a joint effort of the student, family, and university staff. I hope we have shown you all the beauty and responsibility of engineering life. I am also confident that you will become innovative and creative engineers. The quality of your diploma will be confirmed; the degree of BME VIK is a valuable “passport” to your future professional life. During your university years, in addition to the study, you made professional relationships and lifelong international friendships.

Please be proud that you graduated from the Faculty of Electrical Engineering and Informatics of the Budapest University of Technology and Economics!

I wish you, young colleagues, a lot of success, recognition, and health in both your professional and private life.

*Dr. Eszter Gerhátné Udvary,*

Associate Professor, Course Director  
Faculty of Electrical Engineering and Informatics



# Farewell message

from  
**Le Phuong Lan Tran**



Honourable Vice-rector, Deans, BME professors, staff, friends and others,

First and foremost, it is my pleasure to be on this podium to have this farewell speech.

Secondly, it would be a brief introduction about my background. My name is Tran Le Phuong Lan, a Vietnamese student at Budapest University of Technology and Economics. Currently, I am happy to announce that I have successfully graduated from Electrical Engineering curriculum with Infocommunication specialization.

Through the past three and a half years in Hungary, I have grown much more than I would have ever expected from me. From a reserved 18-year-old girl to a 22-year-old honored student standing here, for me, it is a very long story. But in short, there were moments I felt lost, felt lonely as Hungary is thousands of miles away from my home, everything around me was so new and strange. That was when I feel how precious and invaluable the hospitality of people around me is. The feeling of being accepted by new roommates, new classmates, new teachers, new people is so wonderful that it makes Hungary to be my second home, to which I feel attached, at which I feel cared and loved. When knowing that my back is supported and covered, I could dedicate my time to the main purpose on studying the invaluable knowledge from the Budapest University of Technology and Economics.

Consequently, right here and right now, I would love to express my deepest appreciation to the scholarship provider - the Hungarian Government; my far-away-but-always-close family; my dedicated, competent and inspiring teachers; and lastly my new sincere and thoughtful friends.

Things I have learnt, experienced in Hungary have certainly been a breakthrough in my life. It is another established foundation for me to turn my ... crazy dreams into reality.

For the final words, I wish for the prosperity of Stipendium Hungaricum scholarship and Budapest University of Technology and Economics so that many more young people could undergo a change whether it is unpleasant or happy. Wish for students who are sitting here today to be able to see the importance of their supporters and the fruitfulness of the new adopted knowledge.

And lastly, thank you, sincerely.

*Le Phuong Lan Tran*



**Prof. Tibor Czigány**  
Rector



**Prof. Emília Csiszár**  
Vice-Rector for  
International Affairs



**Dr. Péter Bihari**  
Vice-Rector for Education



**Prof. János  
Levendovszky**  
Vice-Rector for Science  
and Innovation

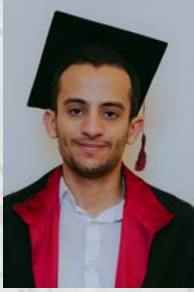
# Faculty of Electrical Engineering and Informatics — BSc



**Prof. Charaf Hassan**  
Dean, Faculty  
of Electrical Engineering  
and Informatics



**Prof. Gábor  
Horváth**  
Vice-Dean, Faculty  
of Electrical Engineering  
and Informatics



**Achref Mekni**



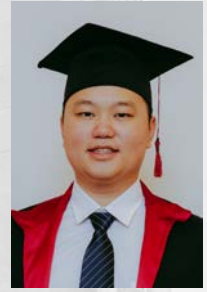
**Amirali Shaban  
Khamseh**



**Beka  
Babunashvili**



**Bruna Duarte  
Alves Souza M  
Chaves**



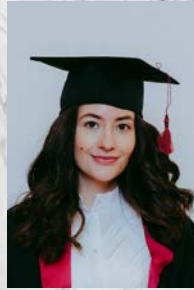
**Chuyue Wu**



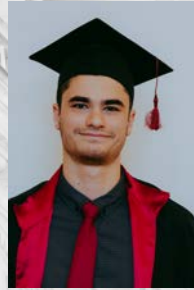
**Felipe Lopes  
Franklin Bezerra**



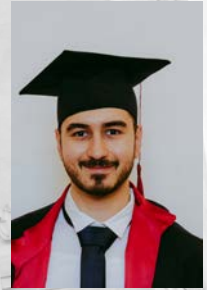
**Hosea Imbo  
Agure**



**Ivana Tihi-Babic**



**Jakov Sola**



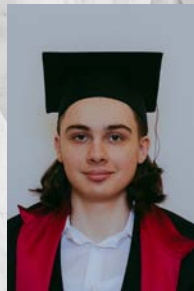
**Kamyar Nazari**



**Le Phuong Lan  
Tran**



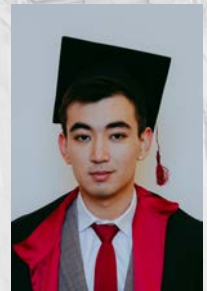
**Mubarak  
Ramadan  
Mohammed**



**Rasim  
Mehdiyev**



**Sana Haddou**



**Sanzhar  
Seidigapbar**



**Sizhe Dong**



**Tra My Tran**



**Yifang Meng**





**Prof. Tibor Czigány**  
Rector



**Prof. Emília Csiszár**  
Vice-Rector for  
International Affairs



**Dr. Péter Bihari**  
Vice-Rector for Education



**Prof. János  
Levendovszky**  
Vice-Rector for Science  
and Innovation

# Faculty of Electrical Engineering and Informatics — MSc



**Prof. Charaf Hassan**  
Dean, Faculty  
of Electrical Engineering  
and Informatics



**Prof. Gábor  
Horváth**  
Vice-Dean, Faculty  
of Electrical Engineering  
and Informatics





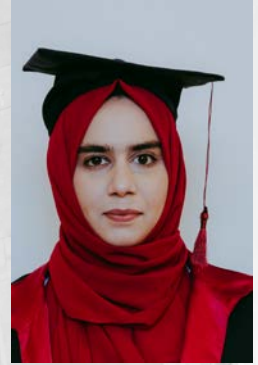
**Ainur Kazkeyeva**



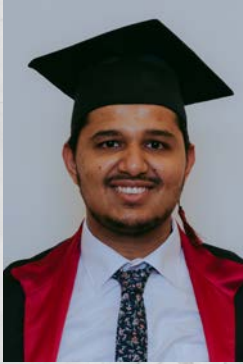
**Ali Yahya Meri  
Al-Hammoodi**



**Khaliun  
Chuluunbaatar**



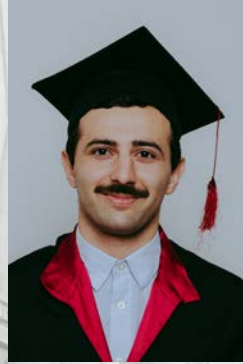
**Laraiba Muzaffar  
Shah**



**Mohammed Noor  
Abdullah Motlaq  
Al-Jbour**



**Mounir Abou  
Saleh**



**Nazim Musazade**

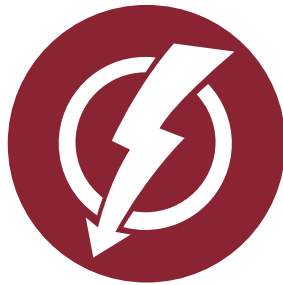


**Togzhan  
Abzhanova**



**Twa Raad  
Abduraheem  
Alkattan**

# Faculty of Electrical Engineering and Informatics



**Achref Mekni**  
Faculty of of Electrical Engineering  
and Informatics



**Ainur Kazkeyeva**  
Faculty of of Electrical Engineering  
and Informatics



**Ali Yahya Meri Al-Hammoodi**  
Faculty of of Electrical Engineering  
and Informatics



**Amirali Shaban Khamseh**  
Faculty of of Electrical Engineering  
and Informatics



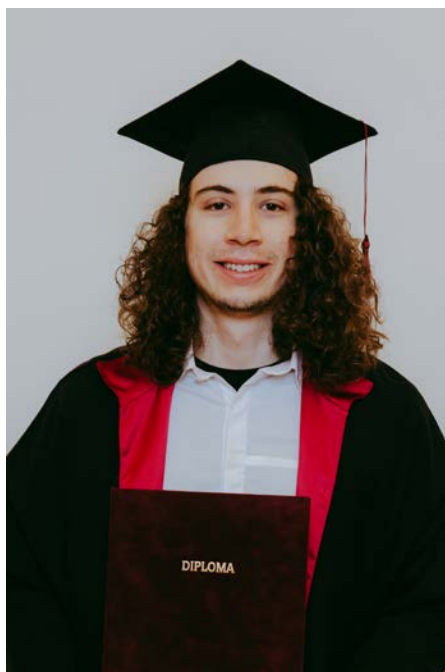
**Beka Babunashvili**  
Faculty of of Electrical Engineering  
and Informatics



**Bruna Duarte Alves Souza M Chaves**  
Faculty of of Electrical Engineering  
and Informatics



**Chuyue Wu**  
Faculty of of Electrical Engineering  
and Informatics



**Felipe Lopes Franklin Bezerra**  
Faculty of of Electrical Engineering  
and Informatics



**Hosea Imbo Agure**  
Faculty of of Electrical Engineering  
and Informatics



**Ivana Tihi-Babic**  
Faculty of of Electrical Engineering  
and Informatics





**Jakov Sola**  
Faculty of of Electrical Engineering  
and Informatics



**Kamyar Nazari**  
Faculty of of Electrical Engineering  
and Informatics



**Khaliun Chuluunbaatar**  
Faculty of of Electrical Engineering  
and Informatics



**Laraiba Muzaffar Shah**  
Faculty of of Electrical Engineering  
and Informatics



**Le Phuong Lan Tran**  
Faculty of of Electrical Engineering  
and Informatics



**Mohammed Noor Abdullah Motlaq Al-Jbour**  
Faculty of of Electrical Engineering  
and Informatics



**Mounir Abou Saleh**  
Faculty of of Electrical Engineering  
and Informatics



**Mubarak Ramadan Mohammed**  
Faculty of of Electrical Engineering  
and Informatics



**Nazim Musazade**  
Faculty of of Electrical Engineering  
and Informatics



**Rasim Mehdiyev**  
Faculty of of Electrical Engineering  
and Informatics



**Sana Haddou**  
Faculty of of Electrical Engineering  
and Informatics



**Sanzhar Seidigapbar**  
Faculty of of Electrical Engineering  
and Informatics



**Sizhe Dong**  
Faculty of of Electrical Engineering  
and Informatics



**Togzhan Abzhanova**  
Faculty of of Electrical Engineering  
and Informatics



**Tra My Tran**  
Faculty of of Electrical Engineering  
and Informatics



**Twa Raad Abdulraheem Alkattan**  
Faculty of of Electrical Engineering  
and Informatics





**Yifang Meng**  
Faculty of of Electrical Engineering  
and Informatics



# Faculty of Transportation Engineering and Vehicle Engineering



The Faculty of Transportation Engineering and Vehicle Engineering (founded in 1951) has been training engineers in the fields of transportation, vehicle engineering and logistics. There are three basic specifications:

- BSc in Transportation Engineering (only in Hungarian),
- BSc in Vehicle Engineering (only in Hungarian),
- BSc in Logistics Engineering (only in Hungarian),

As the second stage of the linear training courses (BSc), there are four master training courses (MSc):

- Transportation Engineering master specialty (Hungarian and English),
- Vehicle Engineering master specialty (Hungarian and English),
- Logistics Engineering master specialty (Hungarian and English),
- Autonomous Vehicle Control Engineer (only English).

With adequate BSc qualification certified engineering qualification (MSc) can be obtained in 2 years (4 semesters) at these master training specialties. All the fundamental and complementary educations continued at the Faculty are carried out in accordance with the rules of the ECTS (European Credit Transfer System).





# Farewell message

## on behalf of the Faculty of Transportation Engineering and Vehicle Engineering



Dear graduates, colleagues, family, and friends,

Congratulations to you all. I would also like to thank all of the staff who have worked tirelessly despite the virus to help all of you students, and who have worked exceptionally hard. They are the heart and soul of this University, as they are fully committed to our mission of continuously improving education level. Your teachers have served not simply as teachers and colleagues but also as mentors and friends in these hard days.

We are here to award our graduating students' diplomas, which we will do shortly. The basic idea that all of you learnt here that you should pay attention and concentrate on what you are doing and precisely knowing what you are not knowing. We were committed to providing our students with the best possible education to prepare them for their future careers in transportation.

To meet the needs of both our students and future employers, the members of the Faculty are constantly thinking about how to improve what they teach. Employability is central to our program and to equip our students to meet the challenges of the industry, we need to provide them with appropriate practical lessons and to enhance their understanding through experiential learning. To support these aims, we also need to examine and recreate the knowledge base that informs our teaching, and thus research is increasingly becoming essential to our program.

Finally, I hope you enjoyed your time, learnt a lot, and will be able to use the knowledge that you gathered here wisely.

“The only true wisdom is in knowing you know nothing.” — Socrates

*Dr. Ádám Török*

Vice-Dean for Scientific and International Relations,  
Faculty of Transportation Engineering and Vehicle Engineering



# Farewell message

from  
**Nurgeldy Praliyev**



Honourable Vice-rector, Deans, BME professors, staff,

I am honored to present this year's farewell speech on behalf of all graduate students at my Faculty, the Faculty of Transportation Engineering and Vehicle Engineering. In 2019, as a young and adventurous engineering student, I arrived in Hungary to enhance my engineering knowledge at Budapest University of Technology and Economics (BME). Today, I am writing this farewell speech as an engineer at one of the leading oil and gas companies in Kazakhstan, and BME has played a major role in this career path. I want to utilize this special moment to express my sincere gratitude to my university for encouraging me to evolve professionally and personally. Thank you for bringing brilliant students from different continents together whom I call friends now.

Class of 2021! Please accept my heartfelt congratulation on your tremendous attainments in such exceptional and challenging circumstances. We are a unique generation that managed to graduate despite the global pandemic, national lockdowns, and online classes. We have developed ourselves under spontaneous alterations and peculiar conditions. We made it through these together as one university and as one family!

Looking back to our journey I can firmly say that we are the leaders of the future who are not frightened to face any challenge that the world has prepared for us. Even though this is a farewell speech, I do not say goodbye, because goodbye means going away and going away means forgetting.

Raqmet BME!

Köszönöm! Thank you! Teşekkürler! Çok sağol! شكرا لك! 謝謝! Obrigado! Gracias! Merci!

*Nurgeldy Praliyev*



**Prof. Tibor Czigány**  
Rector



**Prof. Emília Csiszár**  
Vice-Rector for  
International Affairs



**Dr. Péter Bihari**  
Vice-Rector for Education



**Prof. János  
Levendovszky**  
Vice-Rector for Science  
and Innovation

# Faculty of Transportation Engineering and Vehicle Engineering



**Prof. István Varga**  
Dean, Faculty  
of Transportation  
Engineering  
and Vehicle Engineering



**Dr. Ádám Török**  
Vice-Dean, Faculty  
of Transportation  
Engineering  
and Vehicle Engineering



**Abdalhade Monther  
Abdalhade  
Zaitoon**



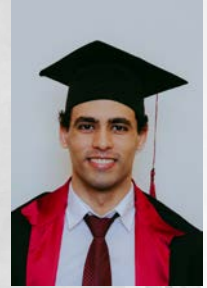
**Andre Santos  
Rosseto**



**Esra'a Abdel  
Razzaq Abdalla  
Husein**



**Igor Racca**



**Jefferson  
William Barbosa  
de Freitas Lima**



**Laith Ali Salem  
Al-Ali**



**Maha Tahmi**



**Nurgeldy  
Praliyev**



**Omran Moh'd  
Eid N. D  
Lambaz**



**Prashant  
Kumar**



**Rodrigo  
de Carvalho  
Lima e Silva**



**Xinyi Zhou**



# Faculty of Transportation Engineering and Vehicle Engineering



**Abdalhade Monther Abdalhade Zaitoon**  
Faculty of Transportation Engineering  
and Vehicle Engineering



**Andre Santos Rosseto**  
Faculty of Transportation Engineering  
and Vehicle Engineering





**Esra'a Abdel Razzaq Abdalla Husein**  
Faculty of Transportation Engineering  
and Vehicle Engineering



**Igor Racca**  
Faculty of Transportation Engineering  
and Vehicle Engineering



**Jefferson William Barbosa de Freitas Lima**  
Faculty of Transportation Engineering  
and Vehicle Engineering



**Laith Ali Salem Al-Ali**  
Faculty of Transportation Engineering  
and Vehicle Engineering



**Maha Tahmi**  
Faculty of Transportation Engineering  
and Vehicle Engineering



**Nurgeldy Praliyev**  
Faculty of Transportation Engineering and  
Vehicle Engineering



**Omran Moh'd Eid N. D Lambaz**  
Faculty of Transportation Engineering  
and Vehicle Engineering



**Prashant Kumar**  
Faculty of Transportation Engineering  
and Vehicle Engineering

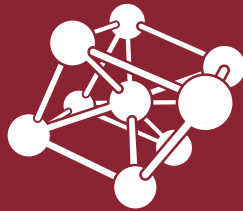


**Rodrigo de Carvalho Lima e Silva**  
Faculty of Transportation Engineering  
and Vehicle Engineering



**Xinyi Zhou**  
Faculty of Transportation Engineering  
and Vehicle Engineering

# Faculty of Natural Sciences



The Faculty of Natural Sciences, one of the newest faculties at the Budapest University of Technology and Economics, was established in 1998 and now employs about 200 full and part time faculty members. The Faculty provides classes in Physics, Mathematics and Cognitive Science and is designed to meet the needs of its own and other faculties.

Courses are offered on BSc and MSc degree levels. The Faculty provides post-graduate scientific training as well. Currently more than 100 PhD students are pursuing personal programs in different areas of sciences. The Faculty also offers short courses on specific topics of current interest.

The Faculty of Natural Sciences administers its own BSc and MSc programs in Physics, Mathematics, Applied Mathematics and Cognitive Science. A continuing educational program is also offered in Reactor Physics and Reactor Technology. For many years the “Eugene Wigner International Training Course for Reactor Physics Experiments” has also been organized on a yearly basis.

The BSc in Physics program, a traditional curriculum, leads to a BSc degree in 6 semesters. The facilities and scientific-tutorial background of the Institute of Physics and the Institute of Nuclear Techniques offer unique opportunities in areas like low temperature physics, acousto-optics, holography, nuclear techniques or medical physics. A further advantage of our Physics BSc Program is the engineering background provided by the Budapest University of Technology and Economics. From the fourth semester students can choose specialized courses in the topic of Advanced mathematics, Advanced physics, Computer programming, Optics, Material science, Nuclear technology, and Medical physics.

In additional 4 semesters an MSc in Physics degree can be earned. This program provides comprehensive knowledge, built upon strong theoretical and experimental bases in four areas of specialization. Students who choose the specialization “Physics” get acquainted with theoretical tools of modern physics and with state of the art experimental methods. In addition to the obligatory courses students can choose specialized professional courses in the topic of Quantum physics, Solid state physics, Statistical physics, Nanotechnology and material science, Optics and photonics, Nuclear technology, and Medical physics. A post-graduate PhD programme in Physics is available in all domains offered in the MSc program.

The BSc in Mathematics program, a traditional curriculum, leads to a BSc degree in 6 semesters. This program is recommended first of all to those who are interested in a deeper understanding of some branches of mathematics and in doing theoretical research and are probably going to continue their studies in a Mathematics or an Applied mathematics MSc program. Moreover, the BSc program is also recommended to students who are eager to apply their knowledge in industry or finance.



In additional 4 semesters an MSc in Mathematics or MSc in Applied Mathematics degree can be earned. A large variety of subjects are offered in the MSc in Mathematics, covering the topics algebra and number theory, analysis, geometry, probability theory and statistics, discrete mathematics, operations research. There is a large flexibility in choosing subjects according to the personal interests of the students.

In the MSc in Applied Mathematics program the students who choose the “Applied Analysis” specialization will meet applications of mathematical analysis in natural sciences, finance and industry. Graduates from the “Operations Research” specialization are able to create models for problems in controlling systems or optimization. Students who specialized in “Financial Mathematics” can analyze financial processes or insurance problems and are able to interpret the results. Graduates from the “Stochastics” specialization can recognize and study random laws in various phenomena. The language of courses of the specializations “Applied Analysis” and “Operation Research” is Hungarian, while the specializations “Financial Mathematics” and “Stochastics” is English.

MSc in Computational and Cognitive Neuroscience program currently available only in Hungarian. The aim of this master program is to train researchers skilled in complex analysis of human cognition and knowledge relying on the methods of science. Students may complete courses in all major domains of cognitive science including cognitive psychology, neuroscience, linguistics and the philosophy of science. Students will be equipped with both theoretical knowledge and practical skills such as statistical analysis and research ethics. Graduates will be able to carry out research in various areas of cognitive science combining theoretical insights and methods of biological (neuroscience, experimental psychology, developmental studies), and formal (mathematics, logic, philosophy of science, linguistics) disciplines. Graduates’ competences allow them to undertake doctoral studies, and to work in a variety of applied domains including medicine, biotechnology and education.

The Institute of Nuclear Techniques organises several postgraduate degree programs. The two-semester Nuclear Power Plant Operation program and the four-semester Reactor Technology and the Nuclear Technology Management programs are offered to professionals working in the nuclear industry. The professional subjects include e.g. reactor physics, thermohydraulics, radiation protection, radiochemistry, reactor technology, nuclear safety and laboratory experiments.

The Institute of Nuclear Techniques also organises – or participates actively in the organisation of – several international courses as well. Worth mentioning are the HUVINETT (Hungarian Vietnamese Nuclear Engineering Train the Trainers) courses, where more than 150 Vietnamese educational professionals attended in the previous years. In addition, the participants of the training courses offered by the international EERRI consortium (Eastern European Research Reactor Initiative) perform experiments in the Training Reactor of BME. In this consortium institutes of 5 Eastern European countries cooperate, with the organisatory and financial aid of the International Atomic Energy Agency (IAEA).



# Farewell message

## on behalf of the Faculty of Natural Sciences



Dear Graduating Students, Ladies and Gentlemen,

At this short ceremony, we hand you your well-deserved diploma. You certainly keep it in mind that there has been a long, persistent work behind it. It took you a lot of effort, hard work, completing homeworks, tests, project assignments, and exams, writing a thesis. You gained a wealth of new knowledge in the meantime and you got enriched with a number of new skills. Your success today involves, of course, the dedicated work of your mentors and professors. In the background, your parents, relatives and friends were always there helping you through the difficulties. A special thank should go to them now.

You are now starting your career in a world that is changing at an amazing pace. It is full of challenges for the mankind including how to provide sustainable development in several areas, how to found a circular economy, how to fight the pandemic and climate change and so on.

When studying Mathematics or Physics you got used to an abstract way of thinking and acquired complex problem-solving skills. This will help you in a wide range of fields – sometimes seemingly far from Mathematics and Physics – to have a view of certain problems that focused experts of the field might not have. While this is a chance, it is also a responsibility to look for the best solution, to keep track of all possible outcomes and to promote a logical way of thinking wherever you are. Please remember that the knowledge and the skills you acquired at the BME should always serve to build a better world around you. We hope that your knowledge will help you contribute to the above-mentioned global challenges.

We sincerely hope that you have attained a positive attitude toward Hungary, our food and customs and that you are holding a lot of good memories. We encourage that you retain the contact with your former professors, we are eager to profit from any professional contacts in the future.

On behalf of the staff of the Faculty of Natural Sciences, I congratulate you on your graduation. We are all glad for your beautiful success. We wish you good luck, recognition and much joy for your further work and studies.

*Prof. Attila Aszódi*

Dean

Faculty of Natural Sciences

# Farewell message

from  
**Nicha Khenkhok**



Honourable Vice-rector, Deans, BME professors, staff, Ladies and Gentlemen,

I am pleased to extend my warm greetings to the members of the presidium, faculty staff, and fellow graduates. On behalf of the students from the Faculty of Natural Sciences, I am honored to be delivering the graduation speech today.

Dear graduates, I would like to acknowledge your effort and strength over the years at BME. I thank you for taking care of yourself under the pressure of deadlines and personal responsibilities. There were tough days, where you might have felt that you were merely surviving the semester day by day. I acknowledge your perseverance, and I am proud of you for getting this far. For now, you no longer need to survive those hurdles. While life is not free of obstacles, it is my wish that instead of surviving life, you will be living it. Only you can define what it means to live.

Depending on career path, one may not need to study after graduation. However, we can agree that life is a learning process. Under the support of professors, classmates and mentors, BME has equipped us with skills and knowledge necessary for our discipline. I hope everyone will utilize the skills and knowledge developed to continue learning in such a way that is meaningful to themselves and the society.

Between the said past and future, there lies this precious moment, where I would like to congratulate all graduates, professors and staff for jointly making this day happen. The diploma is indeed a proof of our dedication. Congratulations. Keep up the good work.

*Nicha Khenkhok*





**Prof. Tibor Czigány**  
Rector



**Prof. Emília Csiszár**  
Vice-Rector for  
International Affairs

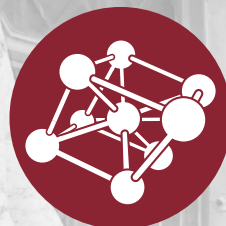


**Dr. Péter Bihari**  
Vice-Rector for Education



**Prof. János  
Levendovszky**  
Vice-Rector for Science  
and Innovation

# Faculty of Natural Sciences



**Prof. Attila Aszódi**  
Dean, Faculty  
of Natural Sciences



**Dr. Ferenc Simon**  
Vice-Dean, Faculty  
of Natural Sciences



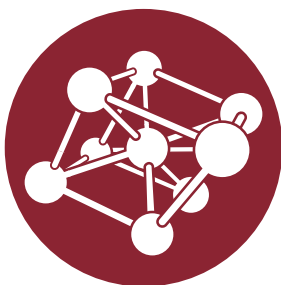


**Bissara Imamagzam**



**Nicha Khenkhok**

# Faculty of Natural Sciences



**Bissara Imamagzam**  
Faculty of Natural Sciences



**Nicha Khenkhok**  
Faculty of Natural Sciences





# Faculty of Economic and Social Sciences



Based on the long tradition of providing education in the fields of economics, management, and social sciences, in 1998 the Budapest University of Technology and Economics established a new faculty, the 'Faculty of Economic and Social Sciences' employing 300 instructors and researchers. Parallel to the traditional five-year university training, the two-cycle system of the Bologna model (for BSc/BA and MSc/MA degrees) was introduced in 2006. The accredited full-time degree programmes in Economics, Engineering Management, Communication, and Media Studies, Teachers Training in Vocational Fields are carried out according to the latest European standards. Besides its training programmes, the Faculty co-operates closely with all the engineering faculties of the University providing courses in management, economics, social sciences, languages, and physical education.

The Faculty of Economic and Social Sciences pays special attention to the integration of theoretical and practical knowledge in its curricula and the Faculty has established strong professional relationships with the participants of various economic fields (profit and non-profit oriented institutions, banks, etc).

## **Education and Research Activities**

The total number of participants of different graduate-, postgraduate and distance learning forms of training launched by the faculty is about 6000. The number of full-time students of basic training of the faculty itself has been increasing. Research is conducted in the Ph.D. School in Business and Management.



### **Languages, translation and interpreting**

The Centre for Modern Languages offers a wide range of opportunities for the development of language skills. French, German, Italian, Spanish and Hungarian as a foreign language are taught at levels from A1 to C1. Courses are also offered in Languages for Specific Purposes (LSP), such as Professional Writing, English for University Studies, Business English, Deutsch im Unternehmen, etc. The Centre is also hailed as one of the leading translator and interpreting centers. Training in translation and interpreting is offered after BA or BSc level, in both full-time, part-time and distance learning, in five language pair combinations. Students can also sit for accredited language exams from B1 to C1 level, at the BME Language Examination Centre.

### **Physical Education**

The University offers a wide range of curricular and extra-curricular forms of physical education. The Department of Physical Education co-operates with the University Sports Club and other student sports organizations.



# Farewell message

## on behalf of the Faculty of Economic and Social Sciences



Dear Graduating Students, Dear Young Colleagues,

First of all, on behalf of all members of the Faculty of Economic and Social Sciences (GTK), I would like to congratulate you on your successful graduation.

The GTK is one of the youngest faculties of the University although its history dates back to the early years of the last century. By establishing the first Faculty of Economic Sciences in 1934 in the country, the Hungarian Royal Palatine Joseph University of Technology and Economics, the predecessor of BME, has pioneered social sciences education in Hungary. Apart from providing degrees in economics and business studies, the Faculty also played a role in teaching students of the engineering faculties of the university.

The Faculty provides an educational experience that fits into the interdisciplinary environment defined by the engineering faculties at the university. At present, the Faculty has more than 3000 students studying in 6 undergraduate (BA/ BSc), 11 graduate (MA/MSc), and one doctoral programme (Ph.D.) taught by more than 100 professors in the fields of economic and social sciences. Three of our master's degree programmes (Finance, Management and Leadership, Regional and Environmental Economics) and the Ph.D. programme belong to the English language education portfolio of the Faculty. We are glad to announce that these opportunities can further develop with the Master programme in Engineering and Management starting in the 2023-2024 academic year.

Building upon the rich heritage of our Faculty and BME, our mission is to contribute to the solution of the societal challenges of the 21st century by facilitating cross-disciplinary learning and collaboration across the engineering, natural science, and social science domains represented by the eight faculties of BME. The close cooperation with engineering and natural science faculties helps to foster the synergies between technology, economic and social sciences and motivate the integration of modern technologies into the curriculum. To enhance excellence in management education and development we are members of the European Foundation for Management Development (EFMD), the Global Association of Risk Professionals (GRASP FRM), and the CFA Institute.

Our programmes focus on technical and social innovation to equip our students with the most relevant and up-to-date knowledge and skills to tackle the rapidly changing business and social environment of the coming decades. I hope that due to your knowledge and skills you can participate in the transformation and use your skills to find the solutions for the recent and upcoming challenges. I do not only wish you success in your professional life but also an open mind to understand the complexity of the world and perseverance to make it better.

*Dr. Mária Szalmáné Csete*

Associate Professor, Vice-Dean for International Affairs  
Faculty of Economic and Social Sciences

# Farewell message

from  
**Takhmina Zakirova**



Honourable Vice-rector, Deans, BME professors, Ladies and Gentleman,

Honestly, deciding to go to BME may have been the best decision I've ever made both academically and socially speaking. In 2019, on my way to Budapest, to start my first year in Europe in general, I was nervous, scared and excited all at the same time. It turned out to be an interesting transition between "usual" and "online" education. There were times when we all struggled, while trying to keep up our physical and mental health, while spending our best years locked up in our rooms and worrying for our loved ones. But I believe, I personally, was lucky to have the best team of professors and classmates who made it an easier and hundred times more pleasant road to go by.

The Pandemic was an incredibly long decade for a couple of years, considering it was only 36 months now. Unknowingly, we've all become what I like to call "The Originals". We chose to be original, we chose to see the future for ourselves doing something completely different prior to attending school or working in current positions. We chose to continue when the world shut down, we chose to trust our instructors to guide us to a new version of ourselves. We relied on ourselves and trusted ourselves, we inspired each other, to keep going because WE were determined to keep going.

Congratulations Class of 2022! Let's be reminded that we always have a choice, so let's choose to be kind, fearless, choose to persevere, choose to find the good things, and choose to keep going. In conclusion, even if something scares you or seems too challenging, give it your all anyway. Because if you quit, you'll never know what the outcome could've been.

*Takhmina Zakirova*





**Prof. Tibor Czigány**  
Rector



**Prof. Emília Csiszár**  
Vice-Rector for  
International Affairs



**Dr. Péter Bihari**  
Vice-Rector for Education



**Prof. János  
Levendovszky**  
Vice-Rector for Science  
and Innovation

# Faculty of Economic and Social Sciences



**Prof. Tamás Koltai**  
Dean, Faculty  
of Economic  
and Social Sciences



**Dr. Mária Szalmáné  
Csete**  
Vice-Dean, Faculty  
of Economic  
and Social Sciences





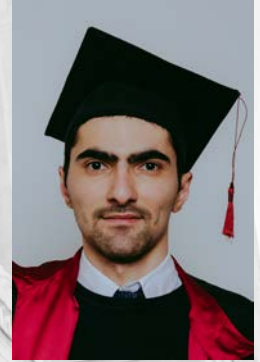
**Laith Khaleel  
Mohammad  
Kafafi**



**Mohammad  
Hassan Fotovati**



**Samir Raed  
Samir Ajailat**



**Shahin Gojayevev**



**Takhmina  
Zakirova**



**To Em  
Vilaysouk**



**Ulfat Habibova**

# Faculty of Economic and Social Sciences



**Laith Khaleel Mohammad Kafafi**  
Faculty of Economic and Social Sciences



**Mohammad Hassan Fotovati**  
Faculty of Economic and Social Sciences



**Samir Raed Samir Ajailat**  
Faculty of Economic and Social Sciences



**Shahin Gojaye**  
Faculty of Economic and Social Sciences



**Takhmina Zakirova**  
Faculty of Economic and Social Sciences



**To Em Vilaysouk**  
Faculty of Economic and Social Sciences





**Ulfat Habibova**  
Faculty of Economic and Social Sciences







# Graduates of the Budapest University of Technology and Economics



### **Faculty of Civil Engineering**

Ahmad Fadel  
Aizhan Kali  
Alina Dvornikova  
Alla Likhonos  
Angelito Martinez Nacion  
David Santiago Charry Motta  
Elie Abdul Nour  
Enas Ali Mansour Al Ammari  
Felipe Costa Albuquerque  
Girmay Godifey Wubneh  
Housain M. I. Almasri  
Husam Sameer Aneed Al-Naseri  
Jamy Khairadeen Ahmed  
Marapanharoth Kay  
Merey Shukenova  
Mokhtar Tantawi  
Mustafa Naddaf  
Pryalen Chhoeur  
Renato Jr. Lim Maglasang  
Roberto Francisco Seibt  
Serzhan Khamidullin  
Ulises Brito Nieto  
Wesam Bassam Elias Albawalsah

### **Faculty of Mechanical Engineering**

Fatma Zayed  
Gal Lahmi  
Haris Mehraj  
Ja'far Ahmad Matleb Almajali  
Jan Pascal Potoradi  
Jianfeng Hou  
Kamran Ahmadli  
Kangjian Huang  
Kevin Martin Suin Uyaguari  
Leonardo Tano  
Lirim Shaqiri  
Mohammad Ibrahim Azmi Darwish  
Qiaoyi Li  
Xiaobao Hui  
Yifan Luo  
Zijian Li

### **Faculty of Architecture**

Adi Jamal Ghaleb Haddad  
Ahlem Benziadi  
Camila Michelle Lopez Zarate  
Dina Kanj (Moh'd Nour) Junblatt  
Dinsultan Aitbayev  
Dua'a Saeed Mohammad Abu Alkheir  
Farah Khaled Amin Bazian  
Gabriella Dalita Brix Monteiro  
Hafize Pinar Yanikkol  
Hala Alshimali  
Minatullah Taha Sami  
Mohammad Fares Whby  
Nazym Takisheva  
Nouhaila Abbas  
Nouras Hamdan  
Obada Sharfo  
Omid Abbassi  
Sama Talat Hameed  
Sergio Manuel Baron Soracipa  
Serhat Yigit  
Solongo Bayarkhuu

### **Faculty of Chemical Technology and Biotechnology**

Anh Duc Nguyen  
Battuya Tungalag  
Dana Atabekova  
Danielle Verde Nolasco  
Fangyi Zhang  
Naran Bataa  
Saeid Ghanbari  
Shaohua Luo  
Sheng Luo  
Suriphon Siwongsa  
Tri Hieu Nguyen  
Tural Asgarov

**Faculty of Electrical Engineering and Informatics**

Achref Mekni  
Agageldi Beghanov  
Ahmad Maher Mohammad Musleh  
Ainur Kazkeyeva  
Ali Yahya Meri Al-Hammoodi  
Amirali Shaban Khamseh  
Beka Babunashvili  
Bruna Duarte Alves Souza M Chaves  
Chuyue Wu  
Duc Trung Pham  
Erdenechuluun Khuderchuluun  
Felipe Lopes Franklin Bezerra  
Firuz Abduyev  
Hosea Imbo Agure  
Ivana Tihi-Babic  
Jakov Sola  
Kamyar Nazari  
Khaliun Chuluunbaatar  
Khosbayar Batsaikhan  
Laraiba Muzaffar Shah  
Le Phuong Lan Tran  
Liang Wu  
Mahir Huseynov  
Mohammed Noor Abdullah Motlaq Al-Jbour  
Mounir Abou Saleh  
Mubarak Ramadan Mohammed  
Nazim Musazade  
Rasim Mehdiyev  
Sana Haddou  
Sanzhar Seidigapbar  
Sizhe Dong  
Toghrol Jabbarli  
Togzhan Abzhanova  
Tra My Tran  
Twa Raad Abdulraheem Alkattan  
Ulzhan Khussainova  
Vusal Murshudli  
Yifang Meng  
Yuxiang Chen

**Faculty of Transportation Engineering and Vehicle Engineering**

Abdalhade Monther Abdalhade Zaitoon  
Al Qadri Yahya Mohammad Mahmoud Al Qadri  
Ali Khalilov  
Almas Askarov  
Anderson Souza Diniz  
Andre Santos Rosseto  
Asel Muzapbarova  
Ayaz Samadli  
Esra'a Abdel Razzaq Abdalla Husein  
Famil Vüqar Oglu Mammadli  
Igor Racca  
Jefferson William Barbosa De Freitas Lima  
Laith Ali Salem Al-Ali  
Maha Tahmi  
Manoel Victor Araujo Oliveira  
Nurgeldy Praliyev  
Omar Majed Ismael Hassan  
Omran Moh'd Eid N. D Lambaz  
Prashant Kumar  
Rodrigo De Carvalho Lima E Silva  
Xinyi Zhou

**Faculty of Natural Sciences**

Anastasiiia Dzhioeva  
Bissara Imamagzam  
Nicha Khenkhok

**Faculty of Economic and Social Sciences**

Akif Isakhli  
Laith Khaleel Mohammad Kafafi  
Mohammad Hassan Fotovati  
Nurjemal Miriyeva  
Saleem Daoud Saleem Abdel Nour  
Samir Raed Samir Ajailat  
Shahin Gojayev  
Takhmina Zakirova  
To Em Vilaysouk  
Ulfat Habibova













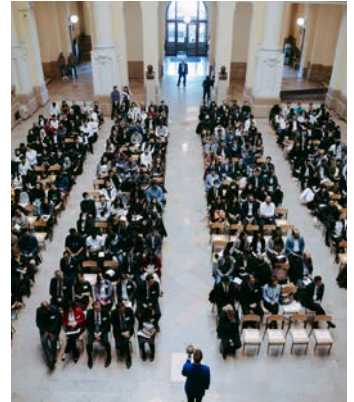




# Opening ceremony







# Student life at BME



“I met amazing people all around the world and we supported each other during the pandemic. We all survived, succeed all together.”

- Hafize Pinar Yanikkol







“Walking through BME buildings and see how beautiful the University campus is!”

- Felipe Lopes Franklin Bezerra



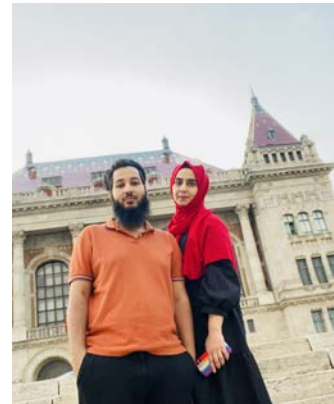
“Most BME architecture students suffer more from sleepless nights than having memories. And those hard nights give a wonderful feeling of success.”

- Obada M.Hussam Sharfo





“I never thought I would miss those busy exam periods spending whole day at University with my fellow classmates and friends. Those times were the most challenging and yet the precious ones. I admit that it was a tough journey but every second of it was worth it. I am grateful for all the opportunities and lessons that I have learnt throughout past three and a half year. Farewell BME!”  
- Naran Bataa



“Located by the Danube, this is the most beautiful university I have ever seen.”

- Li Qiaoyi







“It is here where I met the most influential and life changing role models among my Professors, who not only shaped my life, but continue to inspire me everyday. My life at BME is perhaps the only time where I was able to be myself, tried out entirely new things, found my passion and explored life without tension at all.”  
- Haris Mehraj

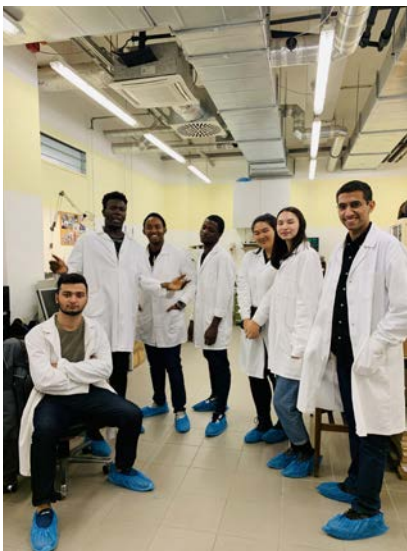


“I will never forget the struggle and the friendships along the way, at the end it all turn out better than I could imagine.”

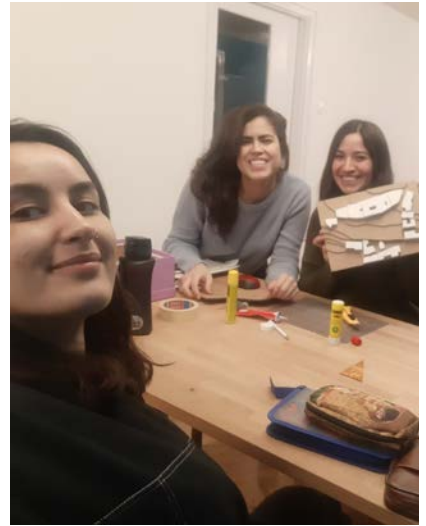
- Ulises Brito Nieto



# University life at BME







# Our life in Hungary

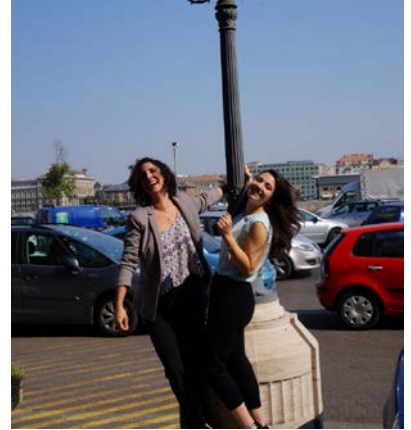


„I will never forget the first time I stepped in BME, this place felt like home since day one although it was not easy but it was totally worth it!”

- Wesam Bassam Elias Albawalsah







“Throughout my studies at BME, despite the fact that it was offered online for the whole two semesters, I was able to connect with peers, not only my classmates, but also seniors who mentored us throughout our first few months. This has opened the door for me to form new friendships.” - Angelito Martinez Nacion



“We shall undoubtedly miss Hungary’s ancient sites, vibrant culture, and kind people.” - Angelito Martinez Nacion







“I remember it was my first semester in BME and I was really feeling down and felt that I could not even pass my subject which was digital design. The Professor helped me with my studies and even talk to me personally so I could go through my exams and made me realize that I was capable of becoming a software engineer.” - Kamyar Nazari



“I am beyond grateful for the past 4 years at BME. I remembered vividly my first time stepping inside the campus, staring in awe at the beautiful building with a Hogwarts campus like vibe.”

- Marapanharoth Kay





“BME is a special place where I’m thankful for the friendship I’ve made along the way and the academic experiences I’ve obtained from it. I would also like to send my warmest gratitude to all my professors, every single one of you has shared and taught me different things that I will forever be thankful for.” - Marapanharoth Kay



“Getting a degree in BME it’s not only about getting knowledge it’s about valuable life lessons also.” - Alla Likhonos







“One of the good memories was when we gather in building E to study or do projects together while drinking coffee from the machine downstairs.”

- Achref Mekni



“I am grateful I had the chance to meet so many interesting and inspiring classmates and professors from whom I learned a lot and shaped me into the person I am today.”

- Mounir Abou Saleh







“It has taught me to be passionate, patient and thoughtful. All thanks to my family support, my dedicated teachers, my great friends and modern campus.”

- Le Phuong Lan Tran



“The stressful moments are now funny stories to tell. Just remember that your time is limited, so try to enjoy every moment without letting those stressful moments control your mind.”

- Bruna Duarte Alves Souza M Chaves



# Good-bye

from  
the **BME Staff!**



**Department of International Relations:** Rita Marositsné Moldvay, Bíbor Bánfiné Klekner, Médea Lívía Terczy, Andrea Nagyné Boda, Gellért Szarvas, Diána Gali, Dóra Pivarcsiné Fekete



**Department of International Academic Affairs:** Renáta Daru-Dudás, László Gergely Vigh, Sarolta Kóbori, Éva Püski





**International Mentor Team:** Georgina Garai, Dávid Pirityi



**Faculty International Coordinators:** Katalin Kovács (VIK), Barbara Kissné Farkas (VIK), Fanni Szondy (VIK), Gyöngyi Tamás (ÉPK), Adrienn Török (GPK), Rita Nemes (ÉMK), Noémi Girst (GTK), Olivér Fenyvesi (ÉMK), Ágnes Szabóné Kismarton (ÉMK), Eszter Gerhátné Udvary (VIK)

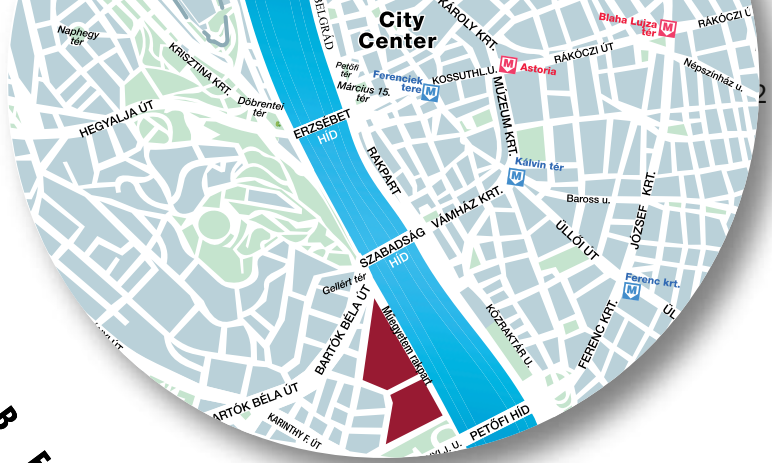


**Central Academic Office:** Ádám Bajusz, Ágnes Csonka, Rita Ruszin, Dorottya Ruszin, Mariann Bajkai, Nóri Gáspár, Évi Buza, Viktória Ait-Vaskó, Margit Nagy, László Kunsági, Johanna Misják





**Szabadság Bridge**



D  
A  
N  
U  
B  
E



**Petőfi Bridge**

- Administration Block **A**
- Fluid Mechanics Building **Ae**
- Chemistry Building **Ch**
- Mechanical Engineering Building **D**
- Building Construction Laboratory **EL**
- Physics Building **F**
- Production Engineering Building **G**
- Informatics Buildings **I, Q**
- Vehicle Engineering Building **J**
- Central Building **K**
- Central Library **Kö**
- Hydraulic Machinery Laboratory **L**
- Mechanics Building **Mm/Mg**
- Mechanical Technology Building **Mt**
- Classrooms **R, T, H, E**
- Electrical Engineering and Informatics Buildings **St, V1, V2**
- Nuclear Training Reactor **TR**
- Office of International Education, Central Academic Office **R**

**Infopark**

**Lágymányosi Bridge**

Throughout its 240 year existence, the Budapest University of Technology and Economics has been an influential force in Central European higher education. Since its foundation as the Institutum Geometricum in 1782, the university has welcomed domestic and foreign students alike. It is one of the most prestigious institutions of engineering education in the region, and the flagship university for the training of engineers and social scientists in Hungary. Several world famous scientists, including Nobel Prize laureates and many household names, call the Budapest University of Technology and Economics their alma mater. The diploma certificates issued by the university are well known and respected across the globe.

Presently, the university consists of eight faculties, covering six fields of engineering sciences, as well as natural sciences and social sciences. As always, the aim of the university remains to provide excellent standards of education to train the experts of the future.

**BME Graduates' Yearbook**  
**Academic Year 2021-2022 · Volume 1**

