



Budapest University of Technology and Economics



Brazilians at the BME
2015-2016 academic year



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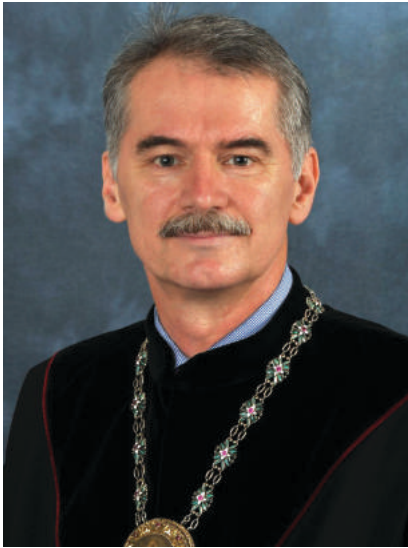
Brazilians at the BME Academic Year 2015-2016

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A Message from the Rector

Dear Reader,

I am delighted to present you this commemorative yearbook, as a keepsake for the 142 Brazilian students who have spent their past two semesters at the Budapest University of Technology and Economics. Thanks to the outstanding efforts by the Hungarian Rectors' Conference, CAPES and BME, it was our pleasure to have you with us in Hungary under the auspices of the Science without Borders (CSF) programme during the academic year 2015-2016. It has been a fruitful and memorable year for the students, as well as for my teaching colleagues.

I have been fortunate enough to oversee your progress and your efforts at this noble university during my first year as Rector, and this, no doubt, is one of my most cherished memories from my tenure.

Our fundamental goal at BME is to provide students with excellent engineering education. Nonetheless, besides the traditional engineering disciplines, we also offer education in various fields of economics and management, natural sciences and humanities. Our courses are under continuous review and improvement, as we strive to offer the best possible education for young engineers and other professionals wherever they may come from.

Our duty is not just to produce graduates who are excellent in their professional fields internationally, but also to educate intellectual adults who have the talent, diligence, devotion and creativity to contribute to the future development of whichever country they may end up living.

We are working hard to meet these expectations, and we do our best to make sure that our graduates are highly valued on the job market, and that their skills and knowledge are afforded the fair valuation they deserve. To do this we strive to provide our students with the necessary conditions for learning and developing their human qualities and professional skills. Our goal is to allow students to realise their full professional and intellectual potential, to reach the highest level that their abilities and dedication permit, and to prepare them for both an intellectual existence and for the tasks which intellectuals face.

We realise that to meet these expectations the BME must continue to act as a key institute in the national and international scientific, technical and economical fields and maintain its close relations with the scientific, research and economic community, with professional organisations and with other players in higher education.

Our mission to provide the best quality education is unachievable without pioneering research

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to deepen human knowledge, and to maintain BME's status as a key workshop for scientific progress. Our university has long participated in international research programmes, and as a leader in directing domestic research, the activities of BME encompass the entire process of innovation, basic and applied research, technical and commercial product- as well as service development and complex quality management, while also striving to apply the results of this research.

The BME has a significant educational capacity which is well balanced among the undergraduate courses (providing a broad basic knowledge), graduate courses (ensuring deep theoretical and specialist knowledge) and doctoral courses. We can thus assure the vast majority of our students that if they are motivated and work hard enough they can accomplish both the first and the second levels, in such a way gaining knowledge and skills in excess of the former graduates. The best students among them can also be assured that they will be given every assistance in attaining their doctorates.

Dear Students,

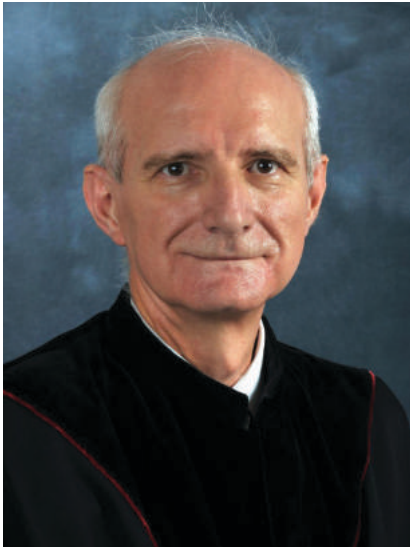
It makes me sad to realise that your group was the final one who had taken the long trek across the Atlantic to find themselves a new home, albeit for a short year only. As this project draws to a close, we all take an account of what we have learnt, what we have experienced. I am sure, that you, like my colleagues at the university, will cherish these memories for life. You have not only spent a year acquiring new knowledge, you have experienced the life and culture in Hungary and in Europe. You have made yourself a second home. I wish you great success in your professional career, and a happy and prosperous life hereon. It has been a pleasure to have you with us.

I would like to add that the most important skills you may have acquired here are firmly nested in my own discipline, civil engineering: building bridges, managing floods, paving new paths. You've certainly built a bridge across two cultures, which is a remarkable feat. Essentially, you've built a bridge across the Atlantic Ocean, so well done, you've already done the impossible. You've also learnt to manage floods – of course materials and project works, in a language different to your mother tongue. So well done on that count, too. You've also paved new paths, because whoever you will talk to, through you they will find their way to us, the university, Hungary, and Europe. But like with any road, maintenance is key. So you are more than welcome to return and visit us again, as undergraduate or PhD students, or even as researchers and business partners. You are now not only experts in your own fields, but experts on us, too.

You are welcome back any time.

Yours,

Prof. János Józsa
Rector



Bridges between continents and nations

Can be that at our University some of you learnt the basics how to build real bridges across rivers. But imagine the power of student mobility: after one or two semesters you all clearly know, how to establish strong and everlasting bridges between continents and nations.

I am sure, your profit is very rich: you acquired valuable engineering knowledge from our outstanding professors; you got acquainted with other people with different habits, culture and history; you made friendship with students from other countries.

And we know, a bridge has two bridgeheads: not only you, but we also profited from this Science Without Borders program. We also learnt a lot from you. Your cheerfulness and optimism exceeds the Hungarian average. Hopefully we are infected with your pep.

Probably, when you first heard about Hungary, it was a far, unknown, small, difficult-to-find country on the map. We do hope, from now for you it a bright point in your hart and on the map of Europe. Be our ambassador: draw attention to our country and our University in Brazil and all over the world. We are sad, as you are the last group of students in this program. Hopefully, it will be continued somehow in the future. Recommend us for the prospective students.

We are living in different countries, but there are similarities in our fate: let's mention a common thing, the football. Once upon a time Hungary was also in the front-rank of world's football. It was said, the members of the dream-team of the fifties was inspired with the only possibility to break out from poverty. Similar effects can be identified in Brazil. We must learn from Brazil, how this break out can be sustainable. But you are the proof, as in the 21st century there other, longer-lasting break out possibilities: if you learn hard, open your mind and attention to valuable knowledge, to other cultures, the world is open for you and the borders vanish.

"Only those who will risk going too far can possibly find out how far one can go."

(Paulo Coelho)

You come far from your country but without a risk. We hope, Budapest University of Technology and Economics helped you to go far in your profession also. We welcome you for further cooperation in the field of education or research and development.

Adeus, see you, vizontlátásra!

Dr. Károly Veszprémi
Vice-Rector for Education



Dear Brazilian Friends,

Steven Spielberg once said:

“You have many years ahead of you to create the dreams that we can’t even imagine dreaming”

Why do I quote it to you? Just look around! The global economic crisis is flooding the whole World; environmental problems are threatening the life on the Globe; and so on...

So we need you. We need the dreams, expertise and activity of your generation, to solve those problems and prevent new ones! What seems to be impossible today, will be “the present of the future”. Flying together with birds, swimming among the fish was impossible for centuries. These are everyday activities today.

You worked hard during this year, and you have to continue to do that at home, in Brazil also. You will see that your knowledge and your special experiences in a foreign country, like Hungary, have a very good value on the job market. You moved to Hungary and spent – I hope – one of the most important and interesting periods of your life here. That move was not just a challenge, risk and hard work, but – I am also convinced – it was a fantastic feeling, a lot of **fun** also. Remember us please, and come back as MSc or PhD students, or as a scientific partner later.

Finally, let me share with you an important message of Jack Welch, the chairman of the General Electric who said:

“Control your own destiny, or someone else will!”

László Dvorszki
Director for International Relations



A reflection of our four years of Brazilians at the BME

My dear Brazilian students,

It was my pleasure to be the person whom you have first met at this university, and I would like to take this opportunity to reflect on not just your year in Hungary, but because you are the last of the troop of Brazilian students, I would like to reflect on the past years as well.

Although the first group has arrived a little over three years ago, I have been busy working on the preparations of your arrival since four years ago. The members of the first group were shy, they discovered the university, Budapest, the people for themselves and for you, the current students. They were the pioneers of the *Science Without Borders* program. They worked very hard and questioned a lot. The students from the second group were brave and they had many experiences from their mates, even they got the flats, rooms, books of their friends. The boys and the girls in the third group started to live their independent lives. They knew almost everything about the university and definitely about the pubs in Budapest. They visited many museums here and in other countries as well. And now you are here. It was a good opportunity to visit The Old World. In a relatively small area there are many different countries. The nature, the architecture, the habits of the people, the food are all very different. An engineer wants to have many experiences, absorb new information, and discover the technical tools. I guess you visited ten countries in average.

One university, eight faculties, four groups, 805 students, three years, and 5119 e-mails from you. This is my statistic of the last three years. Altogether 92.880 students were granted a year abroad by the Brazilian government, with 2134 coming to Hungary in the end. Twenty universities have hosted Brazilian students in Hungary, but almost always a half of them have come to our university. Indeed, BME was not only the single largest host university in Hungary, we were one of the largest hosts in all of Europe. I'm sure none of you have regretted your choice of Hungary and our university.

Over the past years, we visited the Northern part of Hungary in Jászvafő with 250 students, we visited Pécs in the South with 50 students, we travelled to Hortobágy – the Puszta in the East with 50 students and we took a trip to Sopron in the West with 150 students. We were in the heart of Hungary when we flew by hydrofoil to Solt to see the old traditional Hungarian farm with 110 students or when we tasted the famous wines in Eger with 100 students. We visited Vienna and the Schönbrunn Palace with 50 students. I went up about 1500 steps in different towers, caves, churches, and even a Minaret with you.

On the sports day you enjoyed sport activities when we visited Zsámbék. We had 4 football teams there and you were very enthusiastic. Maybe the Hungarian football team won in the European Championship now several times because they heard about the winning team called BME United. You could run, play ball games, and swim in the beautiful swimming pool there.

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During our trips, we visited 15 cities, three castles, five churches, three cathedrals, twelve museums, and an amazing drip stone cave. Listened to organ concerts twice in cathedrals and we had lunch in 11 restaurants.

80 Brazilian students saw two ballets in the *Hungarian State Opera*, 180 students enjoyed five operas in the *Erkel Theatre* and 60 students were in the *Operetta Theatre* to see a musical.

You could visit the *Parliament* (40 students) and we had the programme „*Hungarian day for foreign students*” at BME hosting 170 students.

Wherever we went, I have never heard a bad word about your behaviour from the Hungarian people. You were polite, nice, curious, sociable and talkative. You tolerated it if we had to wait for your friends, you accepted it if we weren't allowed to take photos in the museum, you followed my guidance on what you have to wear in a church. You were satisfied with lunch and I guess we were a very good company. You understood as a future-leader that I have to know about everything you want during the trips because I was there to coordinate your wishes. My goal was always to make you happy. Our days could be useful, enjoyable, perfect and happy if we cooperated. And we did.

Just remember, in the cave in Jósvalfő we listened to some beautiful melodies in the total darkness and it was amazing when the flash lit the dripstones. Or the time we rode the horse carriage and were driven into the stream. In Fertőd you had the opportunity to enjoy the view of the lake and in the cave you saw huge sharks and whales from the ancient Pannonian Sea.

Coming home on the bus you were always content and very tired after the active day, full of many wonderful experiences. You were silent.

Do you know which one is the best Brazilian student? One that's asleep. ☺ You slept in different positions like a small child until we reached the university building.

In the beginning of my speech I talked about the differences of the four groups. Now there is only one similarity: Nobody wants to go home.

Thank you very much. It was my pleasure to accompany you on this journey.

Farewell!

Viszontlátásra.

Viszontlátásra Magyarországon!



Valery Balogh
International Referent



It was a great and positive experience to work with Brazilian Science Without Borders students. Although they enrolled various courses from different semesters they performed well and even motivated our regular students. During the summer practical training they proved that they can be passionate about their engineering projects. I truly hope they bring home good memories and will be able to efficiently use the competences gained at BME as future civil engineers!

Dr. Tamás Lovas
Associate Professor
Faculty of Civil Engineering



„So far, the CsF program was an extraordinary experience to our faculty. My colleagues will cherish the memory of the first large group of Brazilian students who spent two semesters with us, attended lectures, participated on laboratory exercises and worked on projects. We learned a lot during this year and your open-mindedness and motivation did set high the expectations towards the next groups to come. Thank you for choosing BME and the Faculty of Electrical Engineering and Informatics.”

Üdvözlettel,

Dr. Bálint Kiss
Associate Professor, Head of Department
Faculty of Electrical Engineering and Informatics



True partnership bears its fruits

The Faculty of Mechanical Engineering had been preparing for the first round of Science without Borders students with great enthusiasm. This was as late as 2013. At the beginning of 2015 the second Brazilian lot is leaving BME and Hungary with a huge pack of colourful experiences as gifts and benefits of life. This is your job to look into and calculate with your losses and profits, and become a new and better character in this process. We have always been happy with you being with us – equally through simple arrangements and crisis situations.

Be good ambassadors of BME, and speak to your Brazilian fellows about all you have had here, however, always stick to the truth.

Wish you well with your academic and professional career and private life in general. BME always greets you happily if you ever happen to return to Hungary on some occasion.

See you next time!

Eszter Kiss
International Coordinator
Faculty of Mechanical Engineering



Dear Rector, Vice Rectors, Professors, students,

Good evening everyone and thank you for giving me this chance to speak to you. Today is our farewell ceremony and I think, that this is the last day that I can see all of you in the same room, but let's hope not. I really enjoyed all the time, that we have spent together. Many of you know, that I started as a chief mentor, just when you arrived. So everything was as new for me, as it was for you. I cannot be thankful enough for all the support that I have got from you, and I hope the Mentor Team could give you back this kindness during our year together.

It seems that it was yesterday when we went together to one of our first programmes, a sightseeing in the city. I remember, we were only 7 mentors, standing with 60 or more students. But at the end of the day, we all made some friends along the way. This sen-

tence can stand for this day too. We not only became friends along the way, but when our families are far away, we became each others family. I hope you guys enjoyed your time spent here, and that you can recall this year, one of the best memories in your lives. I can truly say that I am glad that I met you, and all these memories will have a special place in my heart. I do not know that whether I will meet you in the future or not, but sure will get connected via social media.

I would like to say thank for your trust, love and friendship. On the behalf of the Mentor Team, I would like to wish you good luck, and I wish that all your dreams will come true!

Thank you!!

Annabella Varga

On behalf of the Mentor Team



Farewell speech on behalf of the Brazilian students at BME

by Nayara Azevedo

July 4th, 2016



Ladies and Gentlemen,

Jó napot kívánok!

My name is Nayara Azevedo and I am a student at BME in the Faculty of Chemical Technology and Biotechnology.

I was invited to say a few words about my experience in Hungary, not just about me, but also trying to represent all my fellow Brazilian colleagues! Quite a big responsibility and I will give my best.

Last summer we arrived in Hungary full of excitement, expectations and dreams. How time flies! My whole family and friends were very proud when I said I was going to study in Europe, but at some point during the whole “Nayara is going to Europe” celebration they would always ask a big question “wait, why Hungary?”

Before coming to Hungary and during the first weeks that I spent here I would ask myself this very same question. Actually, I became quite good at giving an answer: “Well, the university I am going to is *really* good... The cost of living is not high... It has a very strategic position in Europe, so you can know different cultures and places.” I can try to give many answers (and all of them are true!), but right now I see that I didn’t come by chance. Just take a walk near the Danube, take a look at the breath-taking view from there and you will understand a little bit why I fell in love with Budapest and why I am always so happy about my choice.

However, this experience is not just about the beautiful views and a beautiful country. Studying abroad means a lot of challenges too. We have to face a different culture, get to know a different city, different people, all speaking a different language... And when it comes to the language... Yeah, Hungarian is quite different. Even going to the supermarket becomes a challenge!

And of course, an important thing about studying abroad is that we have to study! And I think the biggest challenge lays here! Trying to find a balance between work hard and play hard. Being in such an amazing city with a lot of nice things to do, we had to go to classes, write homework, make presentations, do a project, get involved in the university life... Doing everything in a language that is not our own, and for the majority of us it was the first time that we had to do it. Personally, I had a good experience in my university, I could take classes in topics I would

not have the chance to take in my university in Brazil and be part of projects in two different laboratories.

I don't know how many of you are going to agree with me, but this has been the best year of my life so far and I am so grateful to God and to all the people that made it possible. Was it the same for you? All the challenges that I have been talking about during this speech, they were actually what made me grow. I am definitely not the same, and I have to give you some news, if you didn't realize it yet: after this whole experience, we've changed a lot and will never be the same again. We've become the places we visited, the people we met, the friends we made, the food we ate, the cultures we discovered... So many things that were alien to us in the beginning and now became part of who we are.

And what comes next? We are going back to Brazil in a few weeks and we have to decide what to do with all the knowledge we got. Not only the academic one, but the things we've learnt from the different people and places... I hope we can really become people without borders... without prejudice, without limitations, that can really have a vision, think outside the box! People that can be creative and brave enough to change the reality that surrounds us. And that is especially important in a moment in which our home country needs people that try to do things differently.

And finally, we will go back, but this moment has not come yet. So let's enjoy the last days, see the *Parliament*, go to *Margitsziget*, walk to the *Citadel*, visit the *Balaton* and build great memories of a fantastic year in a fantastic country.

We can really say: *Köszönjük, Magyarország*. Eu vou sentir saudades...

Thank you!

Farewell speech on behalf of the Brazilian students at BME

by Déborah Kolstok Monteiro

July 4th, 2016



If 10 years ago someone had asked where I imagined I would be now I would probably answer graduated, working, married with at least one baby. If that same person had told me that I would be finishing a graduation on a different course, I would say that the person was dreaming. If what he had said was that I would be living in Europe, studying on BME, one of the best Hungarian universities, traveling to many different places, meeting new cultures, new languages, new friends, I would tell this person that he was completely insane. And if he had told me that that was an opportunity that

the government was giving me, I do not even know what I would say.

Much of the time we try to imagine what is going to be in our future - Will I succeed in my career?, Am I going to be happy at my job?, Am I going to have a family? My own apartment? My own car? I need money! - but the truth is that almost always is impossible to predict what is going to happen to us. Life sometimes leads to ways that we would never think of tracing, and that is what is really fun, scary and interesting.

This last year we all came to a place far away from home, we all struggled in doing the most simple things such as going to the supermarket to buy some bread and milk, we all said good bye to those we love, we all felt a big fear of the unknown that was in our future, we all dreamed, we all overcame many challenges, we all met a new world, we all got to know ourselves. This was a year of conquests, of overcoming, of discoveries, but, mainly, it was a year of changes. We all changed.

During this time we got to know new friends on a completely new university with one of the most beautiful buildings we have ever seen, we had to learn how to learn on a different language, we learned a new language - or at least tried to, we had classes that demanded the best of us - thankfully we had great teachers, coordinators and people from the administration department helping us, because the challenge was not that easy, we had the chance to make internships in very reputable companies. We fell in love with this beautiful city called Budapest and for those charming-little cities that we had the opportunity to meet with the trips organized by the university. We fell in love with Hungary.

Right now we are all feeling the same way as we were feeling one year ago, thinking about how it is going to be when we go back. How it is going to be to live with our parents again, how it is going to be to be far from our friends, how it is going to be on a place where everybody understands what you are speaking. We are living the same fears, the second homesickness is about to come. But we should not be afraid of what is waiting for us in the future, because there is always something good there, although it is not always that simple to see.

In a few weeks we are all be saying goodbye to our new friends, to BME, to the place that we called home, to the strange language, to the beautiful river and the bridges. Yet what really matters is that Budapest will always live inside of us, will always be in our memories and souls. There is one saying that says that there are only two things that anyone can take from us: our studies and our travels, and, fortunately, this year was summarized in these two things. It is the time to go back to Brasil and spread all the knowledge and experiences that we had here, to show gratitude for this amazing opportunity that was given to us.

We must not be afraid of living, of what is going to happen to us. We must just live the great adventure that is living. Because that adventure and the unknown are things that now we know we can easily face and succeed.

Let the new challenges come! Let the new adventures begin! Let's face new fears! Let's live!

Egészségükre!

Déborah Kolstok Monteiro

Budapest University of Technology and Economics



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.

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Approximately 800 of the university's 24 000 students are from 50 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 addition 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.



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. In the past 232 years, 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 140 engineers in 10 departments. They have contributed significantly to the scientific solution of diverse engineering problems. Out of the approximately 2300 students, who study at this Faculty, yearly 50-100 students from abroad participate in the English language program.

The BSc engineering program in English leads to a BSc degree in four years, in the Branch of Structural Engineering. The branch offers specific educational objectives: Graduates from the Branch of Structural Engineering create engineering structures by utilizing and designing structural materials. They are expected to design, construct and organize the investments of mechanically, structurally and technologically complex structures in cooperation with architects and transport and hydraulics specialists. Future structural engineers who graduate from this branch will be able to design and construct, among other things, flyovers and underground passages for traffic networks; power stations, cooling towers, crane ways, transmission line structures and TV towers; halls, storehouses, industrial plants, and multistory buildings as well as hydraulic engineering and water supply structures.

A new MSc course in Computational Structural Engineering was launched in September 2012. This MSc course provides advanced knowledge of structural analysis using modern computer techniques, including the theoretical background of the methods. This course might be useful not only for those who are interested in research and consider continuing doctoral studies, but for leading engineers of the future: practicing engineers facing special structural problems.

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 afterward, 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

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either in the fall and in the spring semester. Individual postgraduate academic and research programs, which are usually completed in three to four 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 long-standing 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.

Faculty of Architecture

The **Faculty of Architecture** at the Budapest University of Technology and Economics 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. The 5-year programme in English leads directly to an MSc degree in Architecture and Architectural Engineering (Dipl. Ing. Arch.), but it is also possible to graduate as a Bachelor of Science in Architecture.

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.

Budapest University of Technology and Economics

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 programmes.

The five year programme of the Faculty of Architecture taught in English is in full conformity with the five-year program provided in Hungarian, which after two years practice and experience is accepted for access to EUR-ING title.

Academic Program of the Faculty of Architecture: BSc/MSc Studies

The two-level B.Sc, M.Sc training in the English speaking section of the Faculty of Architecture is realized in a split-up system, in full conformity with the Hungarian speaking section. For B.Sc degree students has to accumulate min 240 credit points, for M.Sc degree min 300 credit points by accomplishing the obligatory subjects and gathering the remaining credit points by accomplishing elective subjects too. B.Sc degree can be obtained in a minimum of four years, M.Sc degree in a minimum of five years of study.

Students, both international and Hungarian, who have a command of both languages can choose from either programme. The participation of Hungarian students in the programme 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 world-wide to study in Budapest within the framework of the International Student Exchange Programme 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 systems world-wide and, eventually, mutual international recognition of degrees.

Master's Programme

Students who have earned BSc degrees in other schools of architecture can join the Master's Programme. Programmes will be tailored to their previous education and special needs. In general they are admitted to the last two years of the five years program, and they have to collect minimum 120 credits. These studies encompass a wide range of complex design topics and elective subjects grouped in three directions:

- Structural Design - buildings and other structures.
- Architectural Design - buildings with different functions, their interiors and surroundings; the preservation of historical buildings.
- Town Planning - urban design, settlement planning and management.

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 Selmecebánya 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 specialisations, 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 specialised studies identified below. A PhD programme 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 specialisations in the fifth semester. Courses of the following branches are available to students depending on the number of applicants (at least 3 applicants) both at the BSc (7 semesters) and MSc (4 semesters) levels:

- Analytical and Structural Chemistry
- Chemical and Process Engineering
- Industrial Pharmaceutics
- Polymer Technology
- Textile Technology

The Faculty of Chemical Technology and Biotechnology aims for its students to acquire a profound theoretical knowledge in mathematics, physics and physical chemistry. It also aims to have its students experience, during their studies, all the types of tasks that chemi-

Budapest University of Technology and Economics

cal engineers encounter in their practical everyday work.

Students will acquire up-to-date laboratory skills, get acquainted with the machines and apparatus 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. Graduates of this Faculty will be versed in:

- The operations and personnel involved in chemical processes on an industrial scale,
- The development of the technology and products of industrial chemical processes,
- The design of industrial chemical processes,
- How a chemical product or application is introduced into the national economy, and
- The elaboration of new chemical processes, operations and technologies.

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. Actually, conforming to the linear, there are three basic specifications:

- BSc in Transportation Engineering,
- BSc in Vehicle Engineering,
- BSc in Logistics Engineering,

As the second stage of the linear training courses (BSc), there are three master training courses (MSc) in the same fields, i.e:

- Transportation Engineering master specialty,
- Vehicle Engineering master specialty,
- Logistics Engineering master specialty.

With adequate BSc qualification certified engineering qualification (MSc) can be obtained in 2 years 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). The quantity of students' labour necessary for attaining the knowledge material of an arbitrary subject is measured through credit-points. One credit-point means on average 30 hours of student's labour, one study semester contains a study material with the quantity of 30 credit-points.

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 wide-spread 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** in order to give recognition to the growing importance of computer science. The education programmes in English include a 3.5-year BSc, a 2-year MSc and a 3-year PhD programme in the fields of electrical engineering and engineering information technology.

The undergraduate **BSc Programme** (7 semesters) aims at providing a comprehensive knowledge with sound theoretical foundations in two areas: (1) Electrical Engineering including more specific studies in electronics, computer engineering and power engineering; and (2) Engineering Information Technology dedicated to the major domains of computer science. The major specializations in Electrical Engineering are infocommunication systems, embedded and controller systems and power engineering. Studies in Engineering Information Technology include specialization in infocommunication and software technology. Each specialization contains three courses focusing on the field of interest followed by a laboratory course and a project laboratory. In order to pursue studies in a given specialization the number of students must exceed a certain threshold, otherwise the interested students are kindly directed to another specialization.

The **MSc Programme** (4 semesters) advances the knowledge in the following fields: (1) Electrical Engineering, offering specializations in (i) embedded systems, (ii) infocommunication systems, and (iii) electrical machines and drives; (2) Engineering Information Technology, offering specializations in (i) applied computer science, and (ii) system development; and (3) Business Information Systems, offering specialization in (i) Analytical Business Intelligence.

The post-graduate **PhD Programme** is available in all domains offered in the MSc programme.

Since research and development requires 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 system and algorithmic theory in addition to a thorough knowledge in physics. The search for optimal solutions in the highly complex architectures of electrical engineering and engineering information technology necessitates not only engineering but economical considerations,

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as well. As a result, the scope of the programme must include design, research and management expertise at the same time.

Several strategies have been designed to help students develop high level skills in mathematics, physics, and computation. Besides theoretical knowledge they need to carry out design and development activities in the field of communication, instrumentation, and power industries to further perfect their practical skills. The curriculum also includes solving tasks in the fields of production and operation.

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

In order to strengthen the transfer of knowledge and know-how between the university and industry, the faculty maintains close contact with well known multinational companies in the field of communication and computer industry. As a result, many industrial experts offer their experience and knowledge as part-time lecturers, project supervisors, members of examination committees.

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 196 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 65 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/MA 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 Programme, a traditional curriculum, leads to a BSc degree in 6 semesters (currently available only in Hungarian). 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 or the nuclear training reactor. A further advantage of our Physics BSc Program is the engineering background provided by the Budapest University of Technology and Economics. Two specializations can be chosen: "Physicist" and "Applied Physics".

In another 4 semesters an MSc in Physics degree can be earned; courses are given also in English. This program provides comprehensive knowledge, built upon strong theoretical and experimental bases in four areas of specialization. Students who choose the specialization "Research Physicist" get acquainted with theoretical tools of modern physics and with state of the art experimental methods. Students in specialization "Applied Physics" study material testing techniques, material science, optics and R&D skills. Graduates from the specialization "Nuclear Techniques" may become professionals in energetics, radiation and environment protection. The specialization "Medical Physics" transfers knowledge of creative use and development of modern medical instruments. A post-graduate PhD programme in Physics is available in all domains offered in the MSc programme. The BSc in Mathematics Programme, a traditional curriculum, leads to a BSc degree in 6 semesters (currently available only in Hungarian). In the fourth semester students are offered two options: specialization "A" Theoretical Mathematics is recommended 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 MSc Program. Specialization "B" Applied Mathematics is recommended to students who are eager to apply their knowledge in industry or finance. Therefore, we have prepared courses related to information technology, economical and financial mathematics, or technology. Graduated students from either specialization are allowed to continue their studies in one of our Mathematics Master programs.

In another 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 Programme, 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 student.

From the available subjects we also offer two specializations called Analysis and Optimization. Students of the MSc in Applied Mathematics Programme choosing 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 analyse 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 "Financial Mathematics" and "Stochastics" is English.

MSc in Cognitive Science aims 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.

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Continuing Educational Programme in reactor physics and technology is a four semester program offered to professionals working in the nuclear industry. The subjects include reactor physics, thermohydraulics, radiation protection, radiochemistry, reactor technology, nuclear safety and laboratory experiments.

The Institute of Nuclear Techniques 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 2013. Also the participants of the training courses offered by the international EERRI consortium (Eastern European Research Reactor Initiative) perform experiments in the Training Reactor of the BME INT. In this consortium institutes of 5 Eastern European countries cooperate, with the organisatory and financial aid of the International Atomic Energy Agency (IAEA).

Postgraduate programme in Operations Research in four semesters is recommended to professionals - with MSc - who often meet problems related to optimization (economists, engineers, etc.). The program includes theoretical classes (bases of discrete, continuous and stochastic optimization) and practice oriented classes as well (modelling, software packages, algorithm implementation, etc.). In the second and third semester students carry out individual projects which help them to obtain the required knowledge and practice for the future.

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, according to the Bologna model the two-cycle system (for BSc and MSc degrees) was introduced in 2006. The accredited full time degree programs in Economics, Engineering Management, Communication and Media Studies, Teachers Training in Vocational Fields are carried out according to the latest European standards. Besides its own training programs the Faculty co-operates closely with all the engineering faculties of the University providing courses in management, economics, social sciences, languages and physical education.

Additionally the Faculty offers different kinds of post-graduate programs and short-term courses of various types. Currently more than 100 PhD students are participating in different individual research programs in different areas of economic and social sciences.

The Faculty of Economic and Social Sciences pays special attention to the integration of theoretical and practical knowledge in its curricula and 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 2 doctorate (PhD) schools.

Languages and International Studies

Dutch, English, French, German, Italian, Spanish, Russian and Hungarian as a foreign language are taught at levels from A1 to C1 by 80 lecturers and language instructors at BME Centre of Modern Languages. Language instruction for Specific Purposes (LSP) as well as translator and interpreter training are also offered by the Centre. Students can sit for nationally and internationally accredited general and specific (LSP for Economics or Engineering) language exams at 3 different levels (B1, B2 and C1) at the BME Language Examination Centre.

The teaching staff of the Centre is actively involved in the Hungarian and Central European Studies programme (for detailed description see the section of Hungarian and Central European Studies).

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 organisations.





Opening Ceremony

September 10th, 2015



International Sports Day

Zsámbék and Herceghalom, September 16th, 2015





Trip to Eger

October 17th, 2015





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Hungarian Heritage Day

April 1st, 2016





Visit to the Baradla Cave System

April 23rd, 2016





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Tour of Pannonhalma and Sopron

April 30th, 2016





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Welcome & Orientation Day

Hungarian Rectors' Conference, September 25th, 2015



Academic and Scientific Conference

Hungarian Rectors' Conference, June 7th, 2016



Budapest University of Technology and Economics





Our Year in Hungary

Students' quotes about their stay at BME

In this amazing year I've shared and learned so much. And nothing would've been possible without *'a little help from my friends'* (The Beatles). The ones I made here, that I am going to keep in my heart always, and the ones back in Brazil, that I miss and love so much. As the quote says, *"Happiness is only real when shared"* (Into The Wild), and I am profoundly happy for sharing it with YOU.

— Giulia Haua

After a research about the city (culture, economy, night life, main spots, food) I decided to take a chance at this amazing city. I'm having a great time here! Words are difficult to describe this experience. Not much, I could have done better in studies. How different cultures can be and how amazing is to get in touch with it. I have a different vision now from Hungary and the Hungarian people now. I'm grateful for this opportunity.

— Vitor Costa

I had no idea about what these two semesters would be like when I arrived. Two friends of mine came in other calls and their testimonials were the first reasons to choose Hungary. Now that my time is almost gone, I can say that I'll never forget. Yes, lots of difficulties with some subjects and with the language, but also amazing growth. I had lifetime experiences here like practicing winter sports, for instance. Joining the Formula Student team for my internship made it more than worthwhile. Besides that, I really hope to keep the friendships made here for the rest of my life..

— Eduardo Zimmermann Novelletto



Some Songs We Sang

Folk and popular songs we sang together on trips and events

Tavaszi szél vizet áraszt

Tavaszi szél vizet áraszt,
virágom, virágom.
Minden madár társat választ,
virágom, virágom.

Hát én immár kit válasszak,
virágom, virágom?
Te engemet, én Tégedet
virágom, virágom.

Az a szép...

/: Az a szép, az a szép, akinek a szeme
kék, akinek a szeme kék. :/
Lám az enyém, lám az enyém sötétkék,
Mégse vagyok a babámnak elég szép,
Az a szép, az a szép, akinek a szeme
kék, akinek a szeme kék.

Száz forintnak ötven a fele

Száz forintnak ötven a fele,
Egye meg a fészkes fekete fene.
Nem lehet az ember fából,
Ki kell rúgni a hámfából.

Még azt mondják részeges vagyok,
Pedig csak a jó bort szeretem nagyon.
Megverem a csizmám szárát,
Csókolom a babám száját.

A jó lovas katonának

A jó lovas katonának de jól nagyon dolga:
Eszik, iszik a sátorba, semmire sincs gondja.
Hej, élet, be gyöngy élet, ennél szebb
sem lehet,
Csak az jöjjön katonának, aki ilyen szeret.

Paripáját megforgatja, elmegyén dolgára.
Csillog, villog a mezőben virágszál módjára.
Hej, élet, be gyöngy élet, ennél szebb
sem lehet,
Csak az jöjjön katonának, aki ilyen szeret.

Már minálunk babám...

Már minálunk babám, már minálunk babám az jött a szokásba,
nem szedik a meggyet, nem szedik a meggyet fedeles kosárba.
Felmegy a legény a fára, a meggyfa tetejére,
lerázza a meggyet, Te meg babám szedjed a rózsás kötényedbe!

Már minálunk babám, már minálunk babám az jött a szokásba,
nem szedik a makkot, nem szedik a makkot fedeles kosárba.
Felmegy a legény a fára, a makkfa tetejére,
lerázza a makkot, te meg babám kapkodd a rózsás kötényedbe!

Már minálunk babám, már minálunk babám az jött a szokásba,
nem szedik a meggyet-makkot, nem szedik a meggyet-makkot fedeles kosárba.
Felmegy a legény a fára, a meggyfa-makkfa tetejére,
lerázza a meggyet-makkot, Te meg babám szedjed-kapkodd, a rózsás kötényedbe!

Már minálunk babám, már minálunk babám, az jött a szokásba,
nem szedik az ananászt, nem szedik az ananászt fedeles kosárba.
Felmegy a legény a fára, az ananászfá tetejére,
lerázza az ananászt, te meg babám kaparászd a rózsás kötényedbe!

Eger városa, barátok városa

Eger városa, barátok városa
Barátok járnak fapapucsba'.
/: csiszi-csiszi csissz-csossz in nomine patris,
Reverenda alatt pálinkát visz. :/

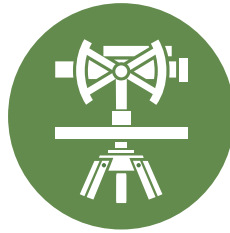
Nem vagyok én barát, szeretem a piát,
Odaadom érte a reverendát.
/: Odaadom érte a csatos imakönyvet,
Őlelem és csókolom a szeretőmet. :/

Buda városa, diákok városa
Diákok járnak fapapucsba'
/: kipi-kipi kipp-kopp in nomine patris,
diáksapka alatt pálinkát visz. :/

Nem vagyok én diák, szeretem a piát,
Odaadom érte a diáksapkát,
/: Odaadom érte a rohadt matekkönyvet,
Őlelem és csókolom a szeretőmet: /

Budapest University of Technology and Economics





Faculty of Civil Engineering



Arnaldo Diodoro
L'Abbate Locoselli



Beatriz
Carsalade Penna



Bruno
Fernando da Silva



Caroline
Ribeiro Diniz



Diogo
Barros



Fabio Callou
da Cruz Gonçalves



Felipe
Zanoni dos Santos

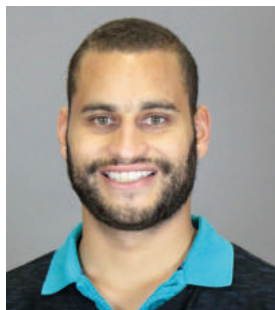


Gabriel Gustavo
Rodrigues Dobbro

Budapest University of Technology and Economics



Guilherme
Mendes Gaspersen



Henrique
Coutinho Souza Lima



Janaina Gabrielle
Souza Alcantara



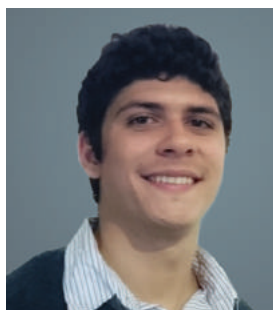
Jefferson
Lima Lucas



João Gabriel
Silveira de Carvalho



Lais
Ribeiro Romano



Luan
Silva Ribeiro



Lucas Nunes
Leite Carvalho



Maria Eduarda
Nascimento de Vasconcelos



Mariana
Bernardo Mei



Paula
Batista Paulo



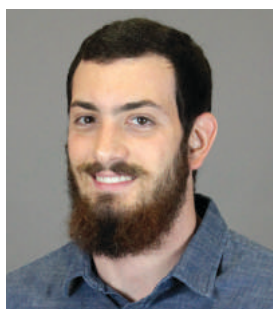
Rafael
Netto Lopes



Rayza Franca
Paes Queiroz



Roberto Lazaro
Silva Sousa Filho



Rodrigo
Rabioglio



Yasmin
Pires de Moura

Budapest University of Technology and Economics



Faculty of Civil Engineering



Arnaldo Diodoro
L'Abbate Locoselli



Beatriz
Carsalade Penna



Bruno
Fernando da Silva



Caroline
Ribeiro Diniz



Diogo
Barros



Fabio Callou
da Cruz Gonçalves



Felipe
Zanoni dos Santos



Gabriel Gustavo
Rodrigues Dobbro



Guilherme
Mendes Gaspersen



Henrique
Coutinho Souza Lima



Janaína Gabrielle
Souza Alcantara



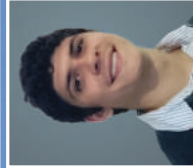
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Ribeiro Romano



Luan
Silva Ribeiro



Lucas Nunes
Leite Carvalho



Maria Eduarda
Nascimento de Vasconcelos



Mariana
Bernardo Mei



Paula
Batista Paulo



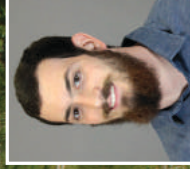
Raíael
Netto Lopes



Rayza Franca
Paes Queiroz



Roberto Lazaro
Silva Sousa Filho



Rodrigo
Rabioglio



Yasmin
Pires de Moura



2015

2016

**Students of the
Faculty of Civil Engineering**

2015-2016

Alisson Cezar Claudio
Amanda Sílvia Sousa Ribeiro
Arnaldo Diodoro L'Abbate Locoselli
Beatriz Carsalade Penna
Bernardo Faria Salomão Silva
Bruno Fernando da Silva
Caio Escote Azedo
Caroline Ribeiro Diniz
Diogo Barros
Fabio Callou da Cruz Goncalves
Felipe Ferreira Teodoro
Felipe Zanoni dos Santos
Flávia Menezes Gusmão
Gabriel Fernandes Coelho Chagas
Gabriel Gustavo Rodrigues Dobbro
Gabriel Librelotto Abdala
Guilherme Mendes Gaspersen
Henrique Coutinho Souza Lima
Janaina Gabrielle Souza Alcantara
Jefferson Lima Lucas
João Gabriel Silveira de Carvalho

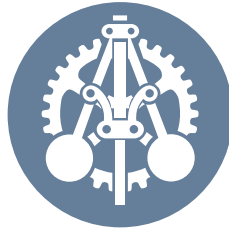
Laís Ribeiro Romano
Leonardo Barros Dantas Brandão
Luan Silva Ribeiro
Lucas Nunes Leite Carvalho
Lucas Valença de Ávila Nascimento
Luciano Alencastro de Freitas
Luiz Filipe da Nóbrega Fernandes
Luiz Guilherme de Oliveira Cunha
Maria Eduarda Nascimento de Vasconcelos
Mariana Bernardo Mei
Paula Batista Paulo
Rafael Netto Lopes
Rayza Franca Paes Queiroz
Reneé Dante Araujo Chagas
Roberto Lazaro Silva Sousa Filho
Rodrigo Rabioglio
Samuel Sales Bezerra
Vinicius Mikio Suzuki
Vitor Moreira Klein Baeta da Costa
Yasmin Pires de Moura

**Students of the Faculty of
Natural Sciences**

2015-2016

Giulia Hava Barquete Braccini

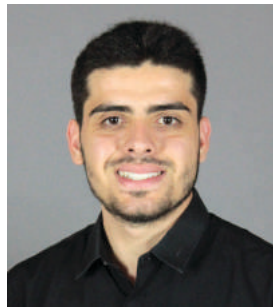
Vitor Oliveira e Silva



Faculty of Mechanical Engineering



Alberto de Almeida
Bossi Guimarães



Gabriel
Silveira Barbieri



Guilherme Henrique
Teixeira de Abreu



Jose Paulo Pereira
das Dores Savioli



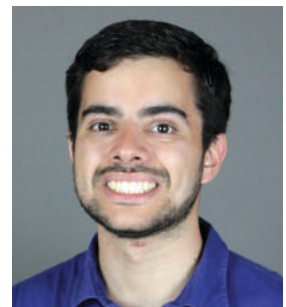
Lindeberg
Vital de Freitas



Maria
Kleybsielle da Silveira

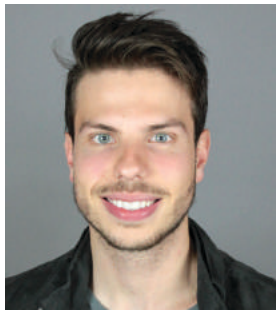


Mateus Felipe
Fumes



Natan
Araújo Moura Leite

Budapest University of Technology and Economics



Otto
Cavalsan Fenara



Pedro Visco
Bitencourt Borges



Renato Luís
Cardoso Ferraz



Thiago
da Silva Rodrigues



Vanessa
Garcia de Aquino



Victor
Pereira Toledo

Students of the Faculty of Mechanical Engineering

2015-2016

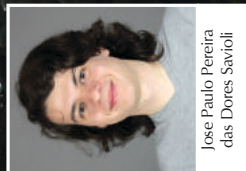
Alberto de Almeida Bossi Guimaraes
Cassiano Metier Moura
Dylan Ciriaco Oliani
Gabriel Silveira Barbieri
Gabriela Nunes Sales Barreto
Guilherme Henrique Schwab Antunes
Guilherme Henrique Teixeira de Abreu
Henrique Grinberg Mielke
Jose Paulo Pereira Das Dores Savioli
Leonardo Olivieri Camargo
Lindeberg Vital de Freitas
Luiz Gustavo Freitas Pereira
Maria Kleybsielle da Silveira
Marianna Fernandes de Leais Andradas

Mateus Felipe Fumes
Matheus Rocha Alves
Matheus Vinicius Colpani
Natan Araujo Moura Leite
Otto Cavalsan Fenara
Pedro Visco Bitencourt Borges
Renato Luís Cardoso Ferraz
Romulo Augusto Cardoso Flaurindo
Thiago da Silva Rodrigues
Thomas Henrique Castro Santos
Vanessa Garcia de Aquino
Victor Pereira Toledo
Vitor Renoldi Alves

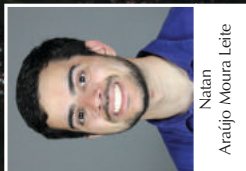
Budapest University of Technology and Economics



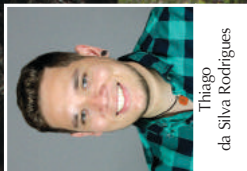
Faculty of Mechanical Engineering



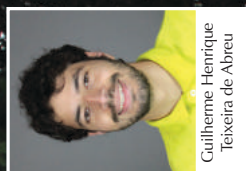
Jose Paulo Pereira
das Dores Savioli



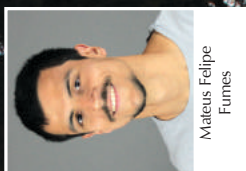
Natan
Araújo Moura Leite



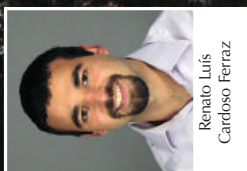
Thiago
da Silva Rodrigues



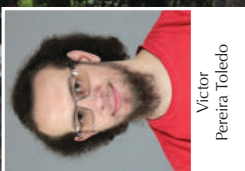
Guilherme Henrique
Teixeira de Abreu



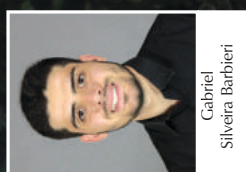
Mateus Felipe
Fumes



Renato Luis
Cardoso Ferraz



Victor
Pereira Toledo



Gabriel
Silveira Barbieri



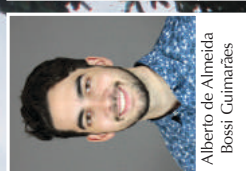
Maria
Kleybielle da Silveira



Pedro Visco
Bitencourt Borges



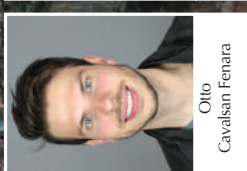
Vanessa
Garcia de Aquino



Alberto de Almeida
Bossi Guimarães



Lindeberg
Vital de Freitas



Otto
Cavalsan Fenara



2016

2015



Faculty of Architecture



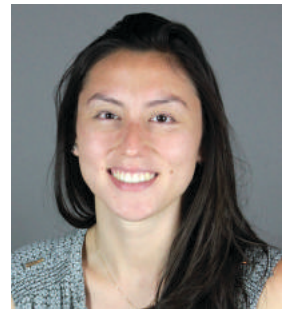
Ana Flávia
Gonçalves de Araújo



Angela
Simoneli Souza



Bianca
Dias Ballaminut



Camila
Hon Cioffi



Cecília
Ribeiro Valencia



Deborah
Kolstok Monteiro



Diego Silva
Moreira dos Anjos



Graziela
González Caruso



Graziella
Novak



Jamile
Penteadó Pereira



Leane
Lepre Jorge



Renan
dos Santos Sampaio



Roney
Moreira Braz Junior



Ryan
Faria Cardoso

Students of the Faculty of Architecture 2015-2016

Ana Flávia Gonçalves de Araújo
Angela Simoneli Souza
Beatriz Luiza Leal Fiock dos Santos
Bianca Dias Ballaminut
Bruna Fernanda Quero da Silva
Camila Hon Cioffi
Cecília Ribeiro Valencia
Deborah Kolstok Monteiro
Diego Silva Moreira dos Anjos
Eduardo Rodrigues da Silva

Graziela Gonzalez Caruso
Graziella Novak
Jamile Penteadó Pereira
Leane Lepre Jorge
Letícia Campos da Costa Nunes
Luiza Silva Sá
Renan dos Santos Sampaio
Roney Moreira Braz Junior
Ryan Faria Cardoso

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Faculty of Architecture



Ana Flávia
Gonçalves de Araújo



Angela
Simonelli Souza



Bianca
Dias Ballaminut



Camila
Hon Croffti



Cecília
Ribeiro Valencia



Bianca
Dias Ballaminut



Deborah
Kolstok Monteiro



Diego Silva
Moreira dos Anjos



Bianca
Dias Ballaminut



Graziela
Gonçalves Caruso



Bianca
Dias Ballaminut



Graziella
Novak



Jamile
Penteado Pereira



Renan
dos Santos Sampaio



Ryan
Faria Cardoso



Leane
Lepre Jorge



Roney
Moreira Braz Junior



2016

2015



Faculty of Chemical Technology and Biotechnology



Artur Elias
Fernandes



Flávia
Midori Kanashiro



Giovanna
Pavanelli Schmidt



Joana
Bristot Variani



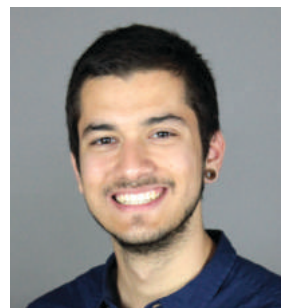
João Pedro
Oliveira Lima



Joyce
Cavalcante da Silva



Lucas de Almeida
Nobre Pires



Luidgi
Duarte Viscardi

Budapest University of Technology and Economics



Marcos Fernando
Frizzo



Naira
Di Giuseppe Bin



Nayara Azevedo
de Castro Souza



Thamiris
Guerra Giacon



Valber
Sales Júnior

Students of the Faculty of Chemical Technology and Biotechnology 2015–2016

Artur Elias Fernandes
David de Araujo Alves
Flávia Midori Kanashiro
Giovanna Pavanelli Schmidt
Hannah Virginia Alves Prado Martins
Joana Bristot Variani
João Pedro Oliveira Lima
Joyce Cavalcante da Silva
Luann Karlos Alves da Silva
Lucas de Almeida Nobre Pires
Luidgi Duarte Viscardi

Mateus Varandas Mori
Naira Di Giuseppe Bin
Nayara Azevedo de Castro Souza
Rodrigo Costa da Silva
Thamiris Guerra Giacon
Thiago Moura Rocha
Tiago Gomes de Aragao Bele
Ulisses Carlo Moura da Silva Bezerra da
Costa
Valber Sales Júnior
Vitor de Oliveira Rubbo

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Faculty of Chemical Technology and Biotechnology



Artur Elias
Fernandes



Flávia
Midori Kanashiro



Giovanna
Pavanelli Schmidt



Joana
Bristol Variani



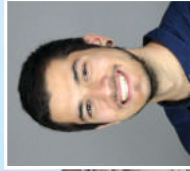
João Pedro
Oliveira Lima



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Nobre Pires



Luidgi
Duarte Viscardi



Naira
Di Giuseppe Bin



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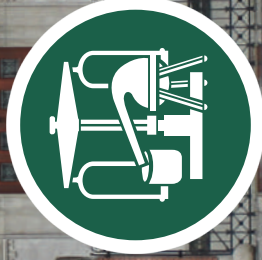
Marcos Fernando
Frizzo



Nayara Azevedo
de Castro Souza



Valber
Sales Júnior



2015

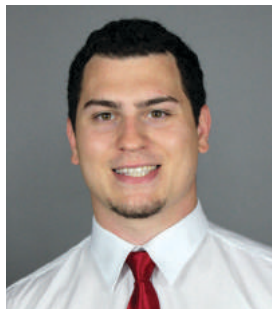
2016



Faculty of Electrical Engineering and Informatics



Aline
Negreiros Araújo



Danilo
Hungaro Micheletti



Debora
Araújo Barbosa Lott



Edson Dos Santos
Bandeira Junior



Fernanda
Paranhos Morato



Jose Siqueira
Campos Filho



Leonardo Luiz
da Silva



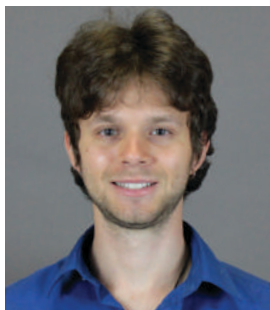
Luiz Antonio
Zimmermann Júnior



Pedro Augusto
Bremer de Toledo



Rafaela Monteiro
Rodrigues Pereira



Rodrigo José Garcia
Fernandes De Oliveira



Vitor
Bertozzi da Silva



Yasmin
Rodrigues de Azevedo

Students of the Faculty of Electrical Engineering and Informatics 2015-2016

Aline Negreiros Araújo
Amanda Helena Resende de Souza
Breno Silva e Pires
Carlos Vinicius Fernandes
Conrado Fernando Moreira Lemos de Camargo
Danilo Hungaro Micheletti
Debora Araújo Barbosa Lott
Edson Dos Santos Bandeira Júnior
Fernanda Paranhos Morato
Gabriel Virgonalto Marchon
Jose Siqueira Campos Filho
Leonardo Lima Silva
Leonardo Luiz da Silva

Lincoln Leal Farias
Luiz Antonio Zimmermann Júnior
Pedro Augusto Bremer de Toledo
Pedro Lucas de Souza Couto
Rafaela Monteiro Rodrigues Pereira
Rodrigo José Garcia Fernandes de Oliveira
Tallison Hrelrison Freire da Silva
Thalles de Oliveira Carneiro
Vitor Bertozzi da Silva
Yasmin Rodrigues de Azevedo

Budapest University of Technology and Economics



Faculty of Electrical Engineering and Informatics



Aline
Negreiros Araújo



Danilo
Hungaro Micheletti



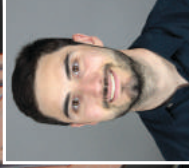
Debora
Araújo Barbosa Lott



Edson Dos Santos
Bandeira Junior



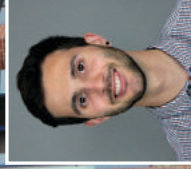
Fernanda
Paranhos Morato



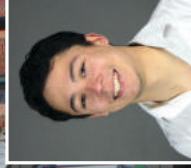
Jose Siqueira
Campos Filho



Leonardo Luiz
da Silva



Luiz Antonio
Zimmermann Junior



Pedro Augusto
Bremer de Toledo



Raíaela Monteiro
Rodrigues Pereira



Rodrigo José Garcia
Fernandes De Oliveira



Vitor
Bertozzi da Silva



Yasmin
Rodrigues de Azevedo

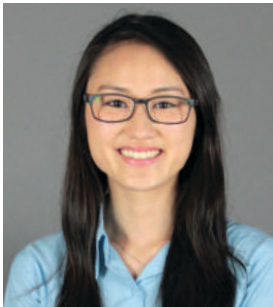
2015



2016



Faculty of Economic and Social Sciences



Juliana Midori
Hirono



Mariana
Silveira de Sá



Henry
Dias Alves

**Budapest University of
Technology and Economics**



**Faculty of Economic
and Social Sciences**



Juliana Midori
Hirono



Mariana
Silveira de Sá



Henry
Dias Alves

2015

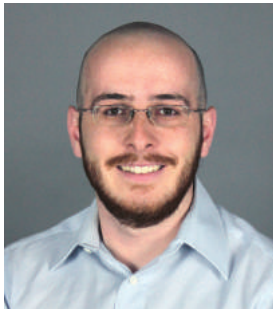


2016

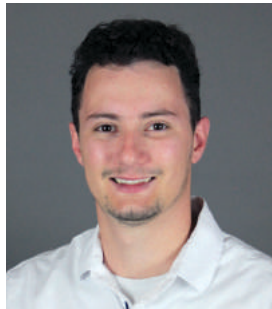




Faculty of Transportation Engineering and Vehicle Engineering



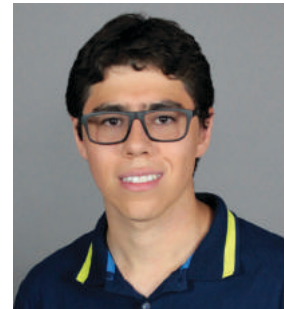
Alan
Albrecht Schmalz



Eduardo
Zimmermann Noveletto



João Paulo
Resende Monteiro



Samuel
Gripp Argueta



Sandrine
Schueller Mafra

Students of the Faculty of Transportation Engineering and Vehicle Engineering

2015-2016

Alan Albrecht Schmalz
Eder Dal Pozzo
Eduardo Zimmermann Novelletto
João Paulo Resende Monteiro

Rodrigo Pinto da Rocha
Samuel Gripp Argueta
Sandrine Schueller Mafra

Budapest University of Technology and Economics



Faculty of Transportation Engineering and Vehicle Engineering



Alan
Albrecht Schmalz



Eduardo
Zimmermann Noveletto



João Paulo
Resende Monteiro



Samuel
Cripp Argueta



Sandrine
Schueller Mafra



2015



2016



Brazilians at the BME

2015-2016 academic year

In the academic year 2015-2016, 142 students have completed their studies at the Budapest University of Technology and Economics, and a year full of learning, experiences and memories will conclude.

During this year at this historic university they have settled in a foreign country, followed courses and conducted laboratory work in a foreign language. Some have even taken part in conferences or have undertaken research work to be presented at the Students' Scientific Conference. And also their lecturers think very highly of them: the visiting students have been very curious, creative and open-hearted. It has been a year worth remembering for all of us, and this book will help us do just that.



Hungarian Rectors Conference



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