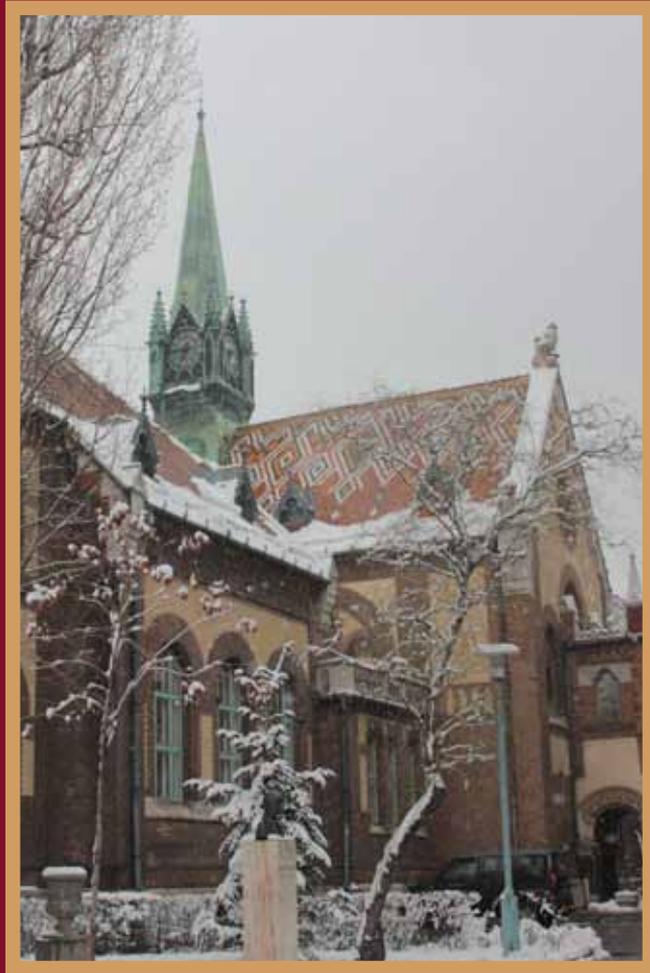




Budapest University of Technology and Economics



Brazilians at the BME  
Academic Year 2014



Budapest University of Technology and Economics

# Brazilians at the BME

## Academic Year 2014

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## A Message from the Rector

Dear Reader,

It is my great pleasure to present you this commemorative yearbook, as a keepsake for the 241 Brazilian guest students who have spent their past year at the Budapest University of Technology and Economics. Thanks to the efforts of the Hungarian Rectors' Conference, CAPES and BME, we were able to host more than half of all Brazilian guest students arriving in Hungary under the auspices of the Science Without Borders programme during the academic year 2013-2014. It has been a fruitful and memorable year for the students, as well as for my teaching colleagues.

The basic task of BME is to provide engineering education. However, we also offer high quality courses in various aspects of economics, natural sciences and humanities. Our courses were designed to meet the requirements of today's society, especially those of the economy, and are constantly upgraded with these concrete needs in mind.

We are aware of the expectation on us not only to produce graduates who can excel in their professional fields at an international level, but also to educate intellectual adults who have the talent, diligence, devotion and creativity to contribute to the future development of both their native countries or Hungary, and their chosen disciplines within the university.

We are working hard to meet these expectations and doing our utmost to ensure that – as a result of their knowledge and skills – our graduates are highly valued on the job market and can compete at the highest level in companies and institutions. 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 permits, 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, which is inseparable from education, is to further knowledge, to conduct scientific research, initiate research and maintain the BME's status as a serious research centre. As a participant in international research programmes and as a leader in directing domestic research the activities of BME encompass the entire process of innovation, basic

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and applied research, technical and commercial product- and 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, thus 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,

This university has been your home for the past year. I sincerely hope you return home with fond memories of this ancient institution, which its alumni have cherished wherever their fortune had taken them. You have not only gained new insights into your own field of study, but you have also acquainted yourself with Budapest, with Hungary, and with Europe. At times you may have been homesick, but your new-found colleagues and friends helped you through it, and most of you have now found a new place where you feel right at home. You have experienced a part of the world and a culture that is very different to what you have so far known. I believe that such experiences make us better scientists, and better people.

During your stay here, you have made Budapest your second home, and you all hold fond memories of this beautiful city and this country. When you return to your homeland, you will become our ambassadors: your acquired knowledge will reflect our efforts, and your accounts of your experiences will entice the interest of others. Our university's doors are open to your colleagues too: please encourage them to become part of this experience, and tell them to come and study in Budapest too.

I also hope that you will come back to our university: perhaps for your continuing studies, as PhD students, as researchers or educators. You are all most welcome to come back, to visit or to stay, with your whole family.

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.

Yours,

*Dr. Gábor Péceli*  
Rector



## Peregrination – student mobility

*the act of going from one place to another*

The equivalent of ‘peregrination’, the Hungarian word ‘*peregrináció*’ was the term since the seventeenth century for the wandering students who spent a few years at foreign universities. This kind of learning was basically available only for noblemen. They often travelled through Western-Europe, studied at different universities from outstanding professors, gathered books for their libraries and tried to build up political connections with influential persons, too.

The modern era has brought about substantial changes also regarding wandering students. Peregrination today is called *student mobility*, available for many, state funding for it is quite easily accessible. Books published anywhere in the world can be purchased without problems. In addition, more and more knowledge can be downloaded simply from the internet. E-learning courses offer outstanding presentations with textbooks optimized for self-learning.

Does it make student mobility unnecessary? Not in the least! In 2012 more than 4 million students were involved in it all over the world. Their profit is not simply the knowledge they gain at foreign universities. They come to know other people with different habits, learn not only from the professors but also from fellow students. Some countries support it with high priority. Brazil is one of the most supportive countries.

You have spent one or two semesters with Budapest University of Technology and Economics. Our professors and staff did their best to transfer their knowledge to you. You were diligent enough to acquire the knowledge.

I am sure you have profited much more. You came to know another country; its people, its nature and its specialities. I do hope you have made new friends, too. Remember the good experiences and forget the nasty ones. We also learnt a lot from you. Your cheerfulness and optimism exceeds the Hungarian average. *Budapest University of Technology and Economics welcomes you for further cooperation in the field of education or research and development.*

Adeus, vizionlátásra!

*Dr. Ákos Jobbágy*  
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*

International and Scientific Director



## Welcome address by the Head of the Centre of Modern Languages

Dr. Judit Sárvári

“Good morning everybody!

On behalf of the staff of the Centre of Modern Languages, the language teaching unit of our university let me welcome you to the Budapest University of Technology and Economics.

The aim of the intensive language course is to brush up your English with special regard to the study and academic skills you need to be equipped with to be able to conduct your studies in the English medium instruction BSc training.

Along with your English studies you will get lessons in Hungarian culture and Hungarian language to help you function in our country while you are staying here. The social programmes, trips we are planning for you are aimed to fulfil this objective.

And now let me finish with some personal remark: I have been to Brazil several times as part of my family live there – I always stayed in São Paulo, but visited wonderful places like Ubatuba, Itamambuka, Parati, Embu. I loved your country and I hope by the time you leave Hungary, you will come to like my country at least as much as I did yours.

Finally let me wish you good luck with your studies and a nice stay in our capital, in our country.

When students begin their studies at our University, it is customary that they make a Solemn Declaration. As a student at BME, it is now your turn to make this Declaration.

Text of the Solemn Declaration

‘I, [...], a student of the Budapest University of Technology and Economics, a foreign citizen residing in Hungary solemnly declare that I shall observe the statutory provisions obligatory for foreign citizens in Hungary and the relevant statutes of this University. I shall always display respect for the University. I shall refrain from participating in or organizing any activity, which would disturb normal functioning and the academic atmosphere of the University. I shall do my best to complete my studies to the best of my ability, to deepen my knowledge of the achievements of progressive science and to become an expert in my profession’.



## A year just flew by...

When you started to apply to our university you had many questions. It is normal though that you wanted to know everything about BME, Budapest and Hungary. After we have sent out the acceptance letters, you became very active immediately. Somebody even claimed that I made a mistake because the acceptance letter was for the spring semester but they wanted to study at BME straight away in the fall semester. First I didn't understand what the problem was but after I understood it, I answered: „Darling, you live on the other part of the Globe, on the south side. Hungary is on the Northern

side of the Earth. That means you have ice-cold winter when we have hot *summer* here in Budapest. So don't worry, we accepted you to the *spring* semester which you can start in February - and that is *autumn* for you in Brazil.”

You really did come from the other side of the World but finally you felt at home here. Everybody found a nice flat and lovely friends as well, which I realized when we went for a trip.

I am sure that you remember the performance in the *Erkel Theatre*. Then I organized three trips. I prepared a booklet for you with the program of the day, the history and some other relevant information about the place that we visited that day and on the last few pages you could find the text of popular Hungarian folk songs.

First we went to Eger where we saw the Cathedral and we could listen to an organ concert. The guide told us about its structure and style. In the restaurant next to the delicious Hungarian dishes on the table, you could also find the Brazilian flag, proving Hungarian hospitality: we like our foreign visitors. Walking in the tiny streets, we could see the *Fazola Gate*, then, we reached the *Minaret* that was built in the times of the Turkish occupation representing a different culture. Many of you climbed up (97 steps) to the 40 m tall tower to see the beautiful view. Soon we could taste marzipan and couldn't imagine that the furniture we saw was made from that tasty paste. In the *Eger Castle*, we heard the history of the city and about the way the Hungarians defended the country and Europe against the overwhelming Turkish army. Since you are going to become engineers soon, you listened to the guide who explained the role of the drum and the peas in the catacomb. The soldiers used the drums as their mobile phones to send messages by that. Finally, no one can leave Eger without visiting the „Szépasszony völgy” and tasting wines. As you are very sociable, we sang Hungarian folk songs together. We all enjoyed that very much.

Following the trip to Eger, we travelled by two busses to Jósvafő that is in the North-East of Hungary. Under the small old village there is an amazing stalactite cave. Our tour in the enormous cave took 100 minutes and we saw the wonderful products of many millions of years. Do you

remember the short concert in the huge „*theatre hall*”? We listened to the lovely music in total darkness and stalactites appeared in a flash. During lunch, we shared our memories and sang again from our little booklet. We enjoyed the sightseeing by the horse carriage in the traditional village where the houses were older than 150 years. The horses also ran into the clean stream. On the carriage, the guide told us that scientists wanted to check its source so they poured red paint into the water and after a while the colored stream appeared outside in the village.

Our third trip was organized to Solt and we flew there by hydrofoil. It was very fast and comfortable. In 90 minutes from one of the most beautiful cities in the world we have arrived to the Hungarian plains, called „*Puszta*”. We felt that we went back about 100 years in time. We travelled by horse carriage to see the draw wells. The weather was sunny so we enjoyed our trip in nature. You recognized the flowers, plants and trees that you have at home as well. Maybe you felt homesick for one moment but you had no time to be sad. The welcome drink was „*pálinka*” or wine, and we ate „*lángos*” with sour cream and garlic. You will remember the taste of the food. The women wore traditional dresses with many skirts in the old peasant house that we visited. Some of you knew the animals very well in the hutch and on the field. A student told me, although our countries are very far from each other but the nature, the animals and the job of the peasants are very similar. He had to come to Hungary to realize that the people of the world were really the same. The lunch that we ate in the „*Csárda*”, while listening to old instruments called „*citera*”, was tasty. In this traditional surrounding we sang again. A student shouted in to me and said: now we should sing „*virágom, virágom*”. It was a heart-warming experience. A boy from a younger generation, from the other part of the globe wanted to sing his favorite Hungarian folk song. That was the best moment and the best experience I had with the Brazilian students. In the next moment because of the Brazilian habits and customs his friends sang with him. The German visitors were surprised and listened to the Brazilian-Hungarian performance. Later we watched a horse show and you could ride a horse or a donkey. Our hosts organized an olympiad for us where you played with enthusiasm and full of energy. We enjoyed that so much that we almost missed the hydrofoil, so we had to say good-bye and the horses took us to the boat in time. On the way home some of the students slept already because of the tiring day, or the wine. The others played guitar with friends, but everybody laughed a lot.

In your second semester, we visited *Sopron* in the West of Hungary and some other cities as well. I hope you will not forget the beautiful cathedral in Pannonhalma on top of the hill. Walking around in Fertod, which is very similar to Versailles, is also an amazing memory. Then we went up to the fire tower in Sopron from where the view was wonderful. You never will forget the lunch in the „*Kantár*” restaurant in *Vitnyéd* and the beer in Sopron. In that early morning in front of the building R where we met and stood by the bus, one of you guys came up to me and asked: „when do we taste wine or beer today?” I had to reply the truth: „it is not your day today because we will visit a cathedral, a church, a palace and several interesting buildings but not wine cellars. But I didn't tell you that we were to visit Sopron that day where there was a festival in the main square where you could of course taste anything you liked. At the end of the day we stopped for a while on the Austrian-Hungarian border, at the memorial of the day when the „*iron curtain*” disappeared. We took many photos and it felt funny for you to have one of your legs in Hungary and the other in Austria.

The following week, we travelled to Hortobágy to visit the Hungarian plains again, called „*Puszta*”. It means there is no river, no hill, only the flat space, dry soil and the animals. Although we

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couldn't see the famous „mirage”, we enjoyed the view from the horse carriage. There were huge buffalos, beautiful horses, sheep and pigs on the field. Then we went to the *Lake Hortobágy* by a small train and we observed many different kinds of birds on the lake through our binoculars. The weather was just perfect sunny and breezy. We could sing Hungarian songs with the Gypsy band in the Csárda next to the nine-hole-bridge.

I hope you have many more good memories of your own to share when you go back home. I wish you all, all the best in life and I hope you will come back to Budapest alone, with friends or maybe even a family of your own.

Viszontlátásra Magyarországon.

*Valery Balogh*  
International Referent





Arriving to a country that one never ever visited before - that is not just an exciting opportunity of a new experience but also can be a scary challenge. The Centre of Modern Languages hopes that we did our best to make our future students' life easier from the first day of their year at BME. We also hope that some day you will return to Hungary either by yourself or with your friends and family. The memorable moments will be preserved in our hearts, so what can be better than to say: Viszonlításra!

*Virág Haraszti*  
BME School of Languages



Working with Brazilian students has a big advantage: even the worst and most boring, grey day can be changed when they came to our office with a big smile on their face.

*Viktor Eszterhai*  
International Coordinator



As a souvenir, here are a few photographs from our bridge-building competition and our professional trip by boat.

*Dr. László Gergely Vígh*  
Course Director  
Faculty of Civil Engineering





Talented and enthusiastic students are always a pleasure to work with.

*Dr. Zoltán Schrammel*  
Faculty of Architecture





## **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 gets 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



First of all I would like to tell you how amazing is that You made it. You really made it. How amazing is, that you were brave enough and came here to Hungary, mostly alone, and went threw on this long way, even if you did not really know what to expect.

All of you should know that, how huge thing is that you spent one whole year so far away from your family, and during this time you became more, than you were before: you had to decide alone, you had to take care about yourself alone, you became an adult. As I can tell it, You did it well. You became more: You came here as a person, but you go home as a different person.

You became an independent young man and woman, you made great friends all over the world, you visited beautiful and unforgettable places, made adventures, watched the World Cup here and cheered for your team in Hungary, you gained much amazing experience threw the university, studies, classes, internships, parties, and travellings. With time you may forget some part of the experience, but it is something that nobody can ever take away from you.

So all I can ask from you is to think back to the very first day of your journeys, and appreciate each day of this amazing one year, and even the dark days that may happened to you, remember to this one year as one of the greatest so far! ☺

As I know, many of you want to stay, or try to come back to this beautiful country, which has made me feel appreciate this country much better than I did before.

I wish you safe travelling back home, great reunion with your families, and I wish all the best for you for the rest of your lifes, and most of all, I wish you to be proud of what you made, that you were here in Hungary, in Budapest, in BME, and that you made it!

*Zita Csaba*  
Member of Mentor Team



During the last year the Mentors' aim was to help the Brazilian students with their studies and with their integration into the Hungarian culture and of course we wanted to get to know as many of them as we can. At the beginning of the spring and the autumn semesters everybody was a little bit frightened because of the administrative problems of the neptun system, but fortunately all of us survived it with smaller or bigger success. After the period of the enrollment into the BME we didn't want to leave our new friends alone with their books and homeworks that's why we supported them to get familiar with the town and spend enough time with us to have real experience and have lots of memories about Hungary.

One of my favorite programmes was when we visited the Unicum Factory in Budapest and we spent a wonderful afternoon together with a lot of smiles and joy. We were acquainted with the life of the Zwack dynasty and with the problems which occurred during the last few decades referring to the manufacturing or the distribution. We discovered the mysterious production of the world wide known Hungarian drink and we were able to taste it with several flavours.

Over this year in my opinion we tried to give and show something new to the Brazilian students to give them an unforgettable time and memories in order to think of us as new friends to trust.

*Balázs Németh*  
Member of the Mentor Team



I still remember when I started mentoring, and at first, I didn't know how to approach you, how to start a conversation with you, I was a little afraid. But since then, we have spent much wonderful time together, and now I can say, that you guys have really made a place in my heart. I hope everybody enjoyed the time spent here, in Hungary and that you will bring unforgettable memories to your homes and maybe one day you will come back to visit us. It was a pleasure to meet you guys!!!

*Annabella Varga*  
Member of the Mentor Team



I have visited some Brazilian concerts and my experience is that the Brazilians are one of the most open-minded people I have ever meet. They just sang all the songs with the singer without taking care of anything around them. In this winter hopefully I will visit your country and I will know much about your culture and you.

*Tekla Gedeon*  
Member of the Mentor Team



# 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 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.

# 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.

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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 Selmechánya 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-

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,

## Budapest University of Technology and Economics

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.

## Budapest University of Technology and Economics

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.



# Hungarian Dance House

January 10<sup>th</sup>, 2014





# Orientation Day

Building Q, February 4<sup>th</sup>, 2014



# Opening Ceremony at BME

Ceremonial Hall, March 19<sup>th</sup>, 2014







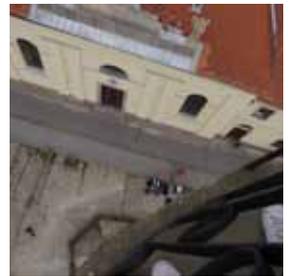
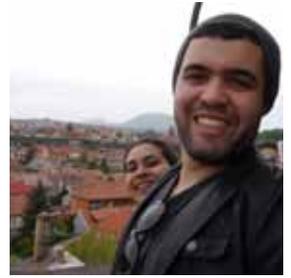
# Excursion to Eger

April 12<sup>th</sup>, 2014



# Budapest University of Technology and Economics





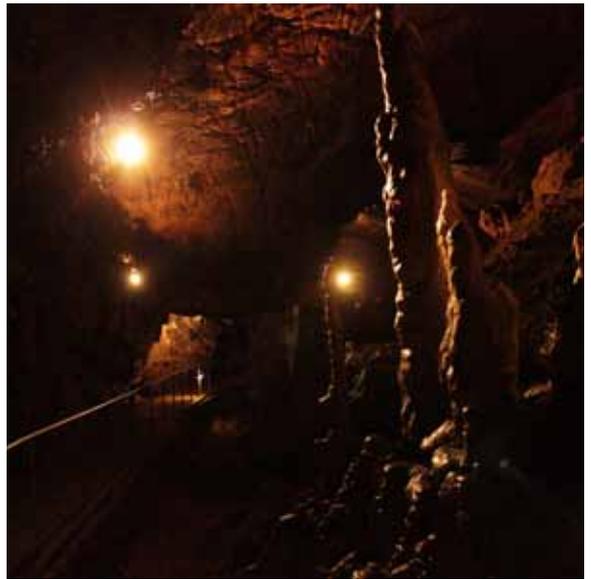
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# Visit to the Baradla Cave System

April 26<sup>th</sup>, 2014









# Hydrofoil trip to Solt-Révbépuszta

May 18<sup>th</sup>, 2014







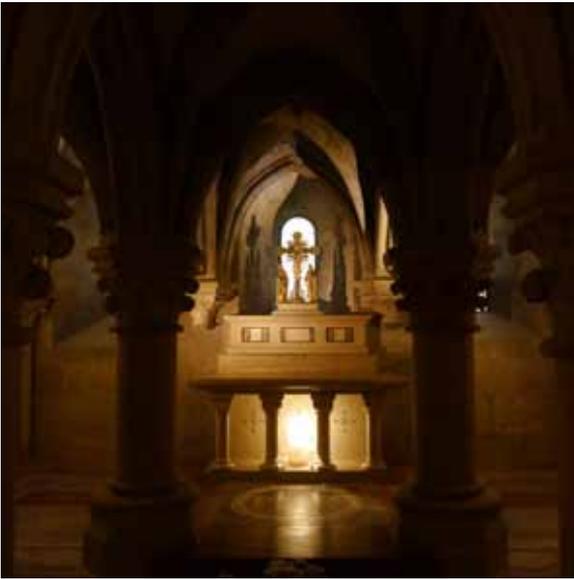


# Tour of Pannonhalma, Fertőd and Sopron

September 27<sup>th</sup>, 2014



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# Trip to the Hungarian Puszta, Hortobágy

October 4<sup>th</sup>, 2014









# Students' Scientific Conference

Research Paper Competition and Awards Ceremony, November 11<sup>th</sup>, 2014



# Life with Mentors





# 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 ilyet 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 ilyet 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-csössz in nomine patris,  
Reverenda alatt pálinkát visz. :/

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

# Our Year in Hungary

## Students' quotes about their stay at BME

Here is my experience about studying one year long in this wonderful country, Hungary - Magyarország, which is the country I picked instead of USA - kinda wanted to be different among other students' choice. By the time I arrived in the airport I felt the cold weather, by the time I checked in at the hostel I heard the different languages being spoken, by the time I went to the laptop store I thought "How can these people use this keyboard format?", well, and finally, by the time I walked around, went to parties, markets, parks and visited cities countryside I realized how cool it is to get to know another far away culture. It is an indescribable experience I got in my life, now I know the general goods of Hungary, the kitchen - felt in love with the wine -, the architecture, history, geography - so flat - and etc. To sum up, I am really satisfied, there is one thing that didn't hit my expectations, probably because I didn't get the excellent grades, which was getting an internship in a company. But I got a decent project that I am about to submit, and this is really nice for me.

I want to say thank you to the BME administration and to the professors.

— *Amadeus Seilert*

When I decided to do my exchange in Budapest, most people asked me "Why Budapest?". Actually I didn't know exactly how this year would be, I just knew that I had to give this charming city the chance to surprise. Now, at the end of the year I just have to thank Hungary, Budapest, BME and specially the Faculty of Mechanical Engineering for receiving me so well and giving me this extraordinary experience. I'm leaving with the certainty that if I had to choose again, I would definitely choose Budapest!

— *Stephany Alonso*

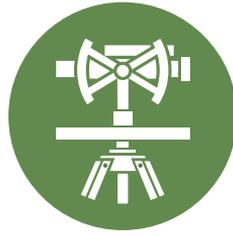
This year was amazing and it will be unforgettable! I made some friends that will be taken forever. In addition I could not forget to mention my experience living in Budapest. This city is awesome. I hope I can come here again in the future!

— *Vitor Holz Alvarenga*

Budapest for me is more than only a city, it is my home. First of all, I chose Hungary because I'd fit in the requirements to participate in the CsF program (Science without Borders). I have to confess that I came a bit afraid of not having made a good choice (by the way, who doesn't become a bit afraid in times like these?), but in the very first week I was sure about my choice. Budapest received me with open arms (and a lot of snow, haha). Living here that year earned me good results and still yields many more in the coming years, professionally and personally speaking. I had the opportunity to study in a completely different university, meet completely different people and travel to quite different countries than I was used to (I had never left Brasil before the exchange), and now, before the departure, already I miss a city that I learn to love. Thank you, Magyarország.

— *Huber Teixeira Costa*





# Faculty of Civil Engineering



Amanda  
Oliveira Mesquita



Anna Beatriz  
Fonseca Borges



Beatriz  
Wenzel Pereira



Bernardo  
Maciel Figueiredo



Bernardo Wild  
Grossi Varella Bastos



Bruna  
Ambrósio



Carlos Eduardo  
Grande



Carolina  
Nakamoto



Cíntia  
Drago Bona



Clarissa  
Da Costa Franca



Cláudio  
Oliveira Faria



Eduardo Henrique  
Abrantes Moreira

# Budapest University of Technology and Economics



Everton Luiz  
Sippel Da Silva



Felipe Cesar  
Bosco De Miranda



Fernanda  
Torres De Oliveira



Francisco César  
De Sousa Filho



Frederico  
Leles Santos



Gabriel  
Immich



Gabriela  
Oliveira



Gabriella  
Souza Ayupe



Guilherme Ávila  
Gomes De Carvalho



Guilherme Otávio  
Marcal De Lima



Jéssica  
Girardi



Jeverson  
Pinto C.



João Alberto  
Machado Leite



Jorge Elias  
Bazi Filho



Larissa  
Simões De Mattos



Leonardo  
Silva De Oliveira Pires



Luan  
Araujo Da Costa



Lucas  
Ribeiro De Sousa



Luís Guilherme  
De Oliveira



Luma  
Oliveira Borges de Jesús



Marcelo  
Borlini Testa



Marcelo Henrique  
Pereira Santos



Marcio Luíz Júnior  
Da Fonseca



Marília  
Leite Augustinho



Marina  
Barbosa Rodrigues



Marina Fernandes  
Monteiro Campos



Mateus  
Pereira De Souza



Meirilene De Cássia  
Faria Soares



Pablo Vinícius  
Herculano Correia



Rafael  
De Carvalho Scherrer



Renato Fernandes  
Da Cunha Loureiro Amorim



Rodrigo  
De Carvalho Lima E Silva

## Budapest University of Technology and Economics



Sophia  
De Macedo Abrão



Rafael  
De Carvalho Scherrer



Tereza Raquel  
Barros Campos



Vítor  
De Bertoli Catelam

# Students of the Faculty of Civil Engineering 2014

Amanda Oliveira Mesquita  
André Lemke Lorenzoni  
Anna Beatriz Fonseca Borges  
Arthur Pendragon De Simone  
Beatriz WenzelPereira  
Bernardo Maciel Figueiredo  
Bernardo Wild Grossi Varella Bastos  
Bruna Ambrósio  
Carlos Eduardo Grande  
Carolina Nakamoto  
Cíntia Drago Bona  
Clarissa Da Costa Franca  
Cláudio Oliveira Faria  
Eduardo Henrique Abrantes Moreira  
Everton Luiz Sippel Da Silva  
Felipe Csuka Lopes  
Felipe Augusto de Sousa Rodrigues  
Felipe Cesar Bosco De Miranda  
Fernanda Torres De Oliveira  
Fernando Júnior Petrovics  
Francisco César De Sousa Filho  
Frederico Leles Santos  
Gabriel Immich  
Gabriela Oliveira  
Gabriella Souza Ayupe  
Guilherme Ávila Gomes De Carvalho  
Guilherme Cordeiro  
Guilherme Otávio Marcal De Lima  
Ian Fernandes Felinto  
Jamy Oliveira Costa  
Jéssica Girardi  
Jeverson Pinto C.  
João Alberto Machado Leite  
Jorge Elias Bazi Filho

Larissa Simões De Mattos  
Leonardo Silva De Oliveira Pires  
Luan Araujo Da Costa  
Lucas Ribeiro De Sousa  
Luís Guilherme De Oliveira  
Luiz Otávio Pereira Muradi  
Luma Oliveira Borges De Jesus  
Marcelo Borlini Testa  
Marcelo Henrique Pereira Santos  
Marcio Luiz Junior Da Fonseca  
Marilia Leite Agostinho  
Marina Barbosa Rodrigues  
Marina Fernandes Monteiro Campos  
Mateus Pereira De Souza  
Meirilene De Cássia Faria Soares  
Mithiele Ustra Pacheco  
Nayara Yshihara Amaral  
Pablo Vinícius Herculano Correia  
Paulo Siga Thomaz  
Rafael De Carvalho Scherrer  
Renato Fernandes Da Cunha  
Loureiro Amorim  
Robson Rodrigues Leite  
Rodrigo De Carvalho Lima E Silva  
Rogério De Azevedo Holanda  
Cabral Cavalcanti Lima  
Ronaldo Ribeiro De Melo  
Sophia De Macedo Abrao  
Stefan Klassen  
Tereza Raquel Barros Campos  
Victor Portela de Oliveira  
Vincenzo Silva Tiezzi  
Vitor De Bortoli Catelam



# Budapest University of Technology and Economics

## Faculty of Civil Engineering



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Grossi Varella Bastos



Bruna  
Ambrósio



Carlos Eduardo  
Grande



Carolina  
Nakamoto



Cíntia  
Drago Bona



Clarissa  
Da Costa Franca



Cláudio  
Oliveira Faria



Eduardo Henrique  
Abrantes Moreira



Everton Luiz  
Sippel Da Silva



Felipe Cesar  
Bosco De Miranda



Fernanda  
Torres De Oliveira



Francisco César  
De Sousa Filho



Frederico  
Leles Santos



Gabriel  
Immich



Gabriela  
Oliveira



Gabriella  
Souza Ayupe



Guilherme Avila  
Gomes De Carvalho



Guilherme Otávio  
Marcal De Lima



Jéssica  
Girardi



Jeverson  
Pinto C.



João Alberto  
Machado Leite

# Technology and Economics Civil Engineering



Luan  
Araujo Da Costa



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Ribeiro De Sousa



Luís Guilherme  
De Oliveira



Luma  
Oliveira Borges de Jesús



Marcelo  
Borlini Testa



Marcelo Henrique  
Pereira Santos



Marcio Luiz Júnior  
Da Fonseca



Marília  
Leite Augustinho



Marina  
Barbosa Rodrigues



Marina Fernandes  
Monteiro Campos



Mateus  
Pereira De Souza



Meirilene De Cássia  
Faria Soares



Pablo Vinícius  
Herculanu Correia



Rafael  
De Carvalho Scherrer



Renato Fernandes  
Da Cunha Loureiro Amorim



Rodrigo  
De Carvalho Lima E Silva



Sophia  
De Macedo Abrão



Rafael  
De Carvalho Scherrer



Tereza Raquel  
Barros Campos



Vítor  
De Bertoli Catelam



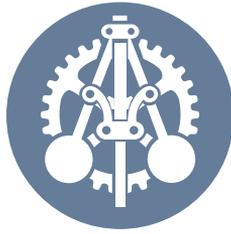
Jorge Elias  
Bazi Filho



Larissa  
Simões De Mattos



Leonardo  
Silva De Oliveira Pires



# Faculty of Mechanical Engineering



Ana Laura  
Limoni Geraissati



André  
Martins Otomura



André Luís  
Franco De Araújo



Antônio Pietro  
Macedo Dantas De Morais



Bruno  
De Lima Rios



Bruno  
Gomes Medeiros



Bruno  
Velloso Lelo



Camili  
Ambrósio



Carlos Augusto  
Moresco



Cassiano Patrick  
Carvalho Do Nascimento



Cleber  
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Douglas Alexandre  
Flister Maia Júnior



Ernesto Trapp  
Gonçalves De Almeida



Fernando  
Martins Justo



Guilherme  
Alexandre Vasconcelos



Gustavo  
Kawano



Gustavo  
Penteadó Delboni



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Gustavo Henrique  
Rober



Iuri  
Nack Buss



Jackson  
Gurgel Martins



Jamerson Tadeu  
Da Cunha



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Leonardo André  
Benincá



Lucas  
Almeida Prati



Lucas  
Vieira De Azevedo

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Nesi Maria



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Dos Santos



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De Assis Tacco Leite Costa



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Fernandes



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De Camilo E Alonso



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Rodrigues de Mello



Virgilio  
Junior Caetano



Vitor  
Holz Alvarenga



Yanna Lesley  
Brito De Araújo



# Budapest University of Technology and Economics

## Faculty of Mechanical Engineering



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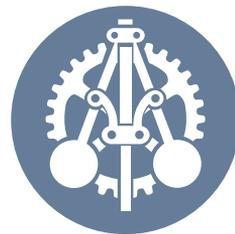
José Antonio  
Nobre Filho



Leandro  
De Carvalho Rodrigues



# Technology and Economics Mechanical Engineering



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Benincá



Lucas  
Almeida Prati



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Vitor  
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**Students of the  
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Bruno De Lima Rios  
Bruno Gomes Medeiros  
Bruno Velloso Lelo  
Camili Ambrósio  
Carlos Augusto Moresco  
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Douglas Patias Johansson  
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Fernando Martins Justo  
Guilherme Alexandre Vasconcelos  
Gustavo Bernardes Santos  
Gustavo Kawano  
Gustavo Penteado Delboni  
Gustavo Pereira Marengo  
Gustavo Henrique Rober  
Iuri Nack Buss  
Jackson Gurgel Martins  
Jamerson Tadeu Da Cunha  
Jessica Ellen Lima Dias  
João Paulo Sigrun Pedrollo Barbosa  
José Antonio Nobre Filho  
Leandro De Carvalho Rodrigues  
Leonardo André Benincá

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Lucas Vieira De Azevedo  
Ludmila Nesi Maria  
Luis Felipe Vieira  
Luiz Gustavo Dos Santos  
Manoela Rios Cardoso  
Marcellye Cristine Rodrigues Miranda  
Marco Túlio De Assis Tacco Leite Costa  
Mateus Viana Diniz  
Mauricio Barcelos Dutra  
Paulo Fabiano Reis Lessa  
Paulo Henrique Souza Coutinho  
Pedro Correa Rocha  
Pedro Marcal Ferreira  
Pedro Soares De Sousa Lima  
Pedro Henrique Coelho Fengler  
Pedro Paulo Rampaso Luchini  
Pedro Victor Carvalho Guerra  
Rafael Cot Nogueira  
Renan Marcelo Conte  
Rodrigo Veronese Moreira  
Rodrigo Eiti Kimura  
Rodrigo Junio Pereira De Barcelos  
Silvio Claudio Fernandes  
Stephany De Camilo E Alonso  
Túlio Camara Pereira  
Victor Rodrigues de Mello  
Virgilio Junior Caetano  
Vitor Holz Alvarenga  
Vitor Perim Borges  
Yanna Lesley Brito De Araújo



# Faculty of Architecture



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de Souza Senna



Bárbara  
Silva



Caroline  
De Oliveira Lerri



Giovanna  
Medeiros Gabriel



Huber  
Teixeira Costa



Jaqueline  
Rathunde



Joana  
Pinotti Zin



João Mário  
Moreno Nascimento



Jorge Henrique  
Pratagy Pereira Lima



Julia  
Dias Gomes



Larissa  
Girardi Losada



Leticia  
Dias Gomes

## Budapest University of Technology and Economics



Luis Tadao  
Hayakawa Ito



Maiellen  
Garcia Dos Santos



Mariane  
Dos Reis Silva



Marina  
Perdigão Romano



Natalia Thais  
Mallezan



Pedro  
Castro



Rafaela  
Pacheco De Souza



Roberta  
Dalcum Jonde Monteiro



Vanessa  
Campos De Oliveira Soares



Vítor  
Ferronato De Lira



Wagner  
Cardoso da Silva



Wallace  
De Miranda Avelar

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João Batista Oliveira  
João Mário Moreno Nascimento  
Jorge Henrique Pratagy Pereira Lima  
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Leticia Dias Gomes

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Mariane Dos Reis Silva  
Marina Perdigão Romano  
Natalia Thais Mallezan  
Pedro Castro  
Rafaela Pacheco De Souza  
Roberta Dalcum Jonde Monteiro  
Vanessa Campos De Oliveira Soares  
Vitor Ferronato De Lira  
Wagner Cardoso da Silva  
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# Budapest University of Technology and Economics

## Faculty of Architecture



Ana Clara  
de Souza Senna



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Silva



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De Oliveira Lerri



Giovanna  
Medeiros Gabriel



Huber  
Teixeira Costa



Jaqueline  
Rathunde



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Prata Pereira Lima



Joana  
Pinotti Zin



João Mário  
Moreno Nascimento



Julia  
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Larissa  
Girardi Losada



Leticia  
Dias Gomes

# Technology and Economics Architecture



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Vítor  
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Wagner  
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# Faculty of Electrical Engineering and Informatics



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Bernardino Lima



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De Moura Pereira



Dalay Israel  
de Almeida Pereira



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Denis  
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Hiroshi Nogueira Nazu



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Felipe  
Abreu Santana



Felipe  
Soares Campolina



Guilherme  
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Gustavo  
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Gustavo  
Gonçalves De Sousa Forte



Jean Rafael  
Camillo



João Victor  
Rocha Soares



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Lucas  
Petri Silva



Luis Gustavo  
Garcia De Carvalho



Luiza  
Ferreira De Almeida



Lurian De Lourdes  
Fluxo



Mailson  
Pereira de Jesus

# Budapest University of Technology and Economics



Marcelo Augusto  
De Oliveira Higa



Maria Clara  
Minella



Mario Vinícius  
Pelegrini Guimaraes



Matheus  
Rodrigues Pereira



Raphael  
Scarano De Oliveira



Ricardo  
Espindola De Aguilar



Rinaldo  
Lopes Rodrigues



Rodrigo  
Santos De Nadai



Sergio  
Siqueira Ramalho



Thaissa  
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Tiago Augusto  
Texeira



Victor  
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Dalay Israel de Almeida Pereira  
Daniel Freitas De Medeiros  
Daniel Kobayashi Dias  
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Eduardo Orph  
Eric Fredericson Ribeiro Resende  
Fabio Azarias  
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Felipe Soares Campolina  
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Gustavo Cegolini Togni  
Gustavo Gonçalves De Sousa Forte  
Jean Rafael Camillo  
João Victor Parodi Da Silva  
João Victor Rocha Soares  
Jonathan Martins Barros Costa  
José Armando Rodrigues de Sousa Neto  
Josias Duarte Busiquia  
Julio Cesar Telles Rodrigues  
Leandro Cesar Vasconcelos  
Leticia Ramos Antunes Venancio

Lucas Aoki Heredia  
Lucas Da Costa Gazzola  
Lucas De Souza Rodrigues  
Lucas Martins Rocha  
Lucas Petri Silva  
Luis Gustavo Garcia De Carvalho  
Luiz Henrique de Araujo Silva  
Luiz Henrique de Godoy Patire  
Luiza Ferreira De Almeida  
Lurian De Lourdes Fluxo  
Mailson Pereira De Jesus  
Marcelo Augusto De Oliveira Higa  
Maria Clara Minella  
Mario Vinícius Pelegrini Guimaraes  
Matheus Rodrigues Pereira  
Rafael Mandu Cardoso  
Rafael Seiji Ishibe  
Raphael Scarano De Oliveira  
Ricardo Espindola De Aguiar  
Rinaldo Lopes Rodrigues  
Rodrigo Santos De Nadai  
Roniceli Diego Lima De Moura  
Sergio Siqueira Ramalho  
Thaissa De Melo Cesar  
Thiago Vilela Silva Ribeiro  
Tiago Augusto Texeira  
Victor De Castro Morini  
Vinicius Correa de Sousa  
Matheus Santos Vieira



# Budapest University of Technology and Economics

## Faculty of Electrical Engineering



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Bruno  
Camargos Da Silva



Cícero Tadeu  
Pereira De Freitas Matos



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Dalay Israel  
de Almeida Pereira



Daniel  
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Daniel  
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Felipe  
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Guilherme  
Padovani



Gustavo  
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Gustavo  
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João Victor  
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# Technology and Economics Engineering and Informatics



Josias  
Duarte Busiquia



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Lucas  
De Souza Rodrigues



Lucas  
Petri Silva



Luis Gustavo  
Garcia De Carvalho



Luiza  
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Fluxo



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Marcelo Augusto  
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Mario Vinicius  
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Matheus  
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Vinicius  
Correa de Sousa



Sergio  
Siqueira Ramalho



Thaissa  
De Melo Cesar



Tiago Augusto  
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## Faculty of Transportation Engineering and Vehicle Engineering



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Carlos Augusto  
Ribeiro dos Santos



Danilo  
Andrade Fontenele



Fábio  
Mathias



Francisco Valentim  
Barbosa dos Santos Filho



Gabriel  
Silva Nunes



Izabella Abdon  
Siqueira Castilho Ferreira



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Carlos Augusto Ribeiro Dos Santos  
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Fábio Mathias  
Francisco Valentim Barbosa Dos Santos Filho

Gabriel Silva Nunes  
Graziella Ferreira Machado  
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Izabella Abdon Siqueira Castilho Ferreira  
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# Budapest University of Technology and Economics

# Faculty of Transportation Engineering and Vehicle Engineering



Alex Júnior  
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Daniilo  
Andrade Fontenele



Fábio  
Mathias



Francisco Valentim  
Barbosa dos Santos Filho



Gabriel  
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Izabella Abdon  
Siqueira Castilho Ferreira



Renato  
Cardoso Barbosa





## Faculty of Economic and Social Sciences



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Carvalho Franco Barros



Angelica Cristina  
Cruz Custodio



Karla  
Klahold de Souza Biscaro



## Faculty of Natural Sciences

Budapest University of



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Almeida Júnior



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Angelica Cristina  
Cruz Custodio



Karla  
Klahold de Souza Biscaro



Faculty of Economic  
and Social Sciences



Faculty of  
Natural Sciences

# Brazilians at the BME

## Academic Year 2014

In the academic year 2014, more than 500 Brazilian students have been studying at the Budapest University of Technology and Economics. Now 226 students have completed their studies at the BME, 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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