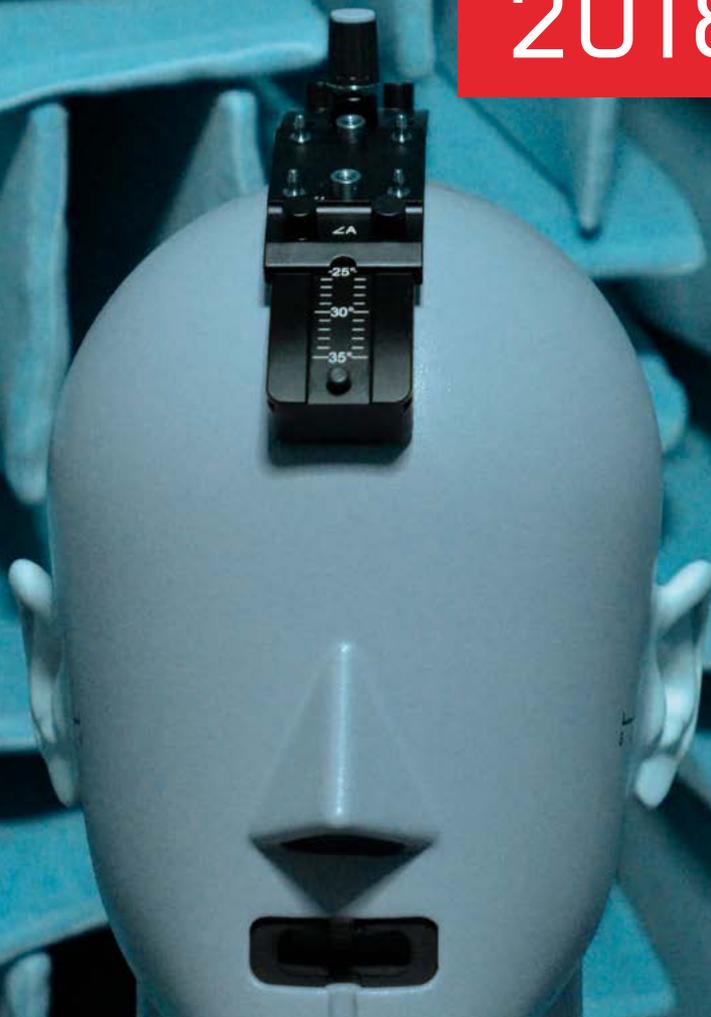




BRNO
UNIVERSITY
OF TECHNOLOGY

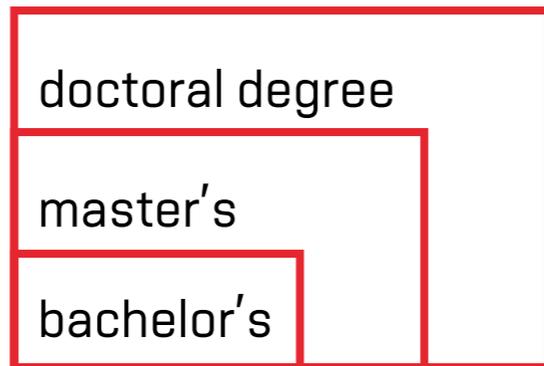
DEGREE PROGRAMMES

2018/2019



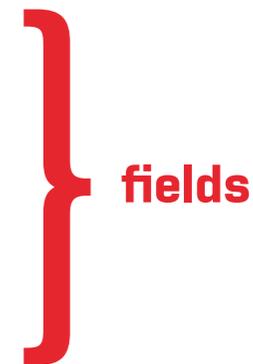


3 levels of
EDUCATION



FOCUS ON

technical
natural scientific
economic
artistic





ABOUT US

University

With its excellent research outcomes, international recognition, and hundred-year tradition, Brno University of Technology (BUT) ranks among the most sought-after universities in Central Europe. It offers a broad scale of engineering, scientific, economic, and artistic programmes. In more than 115 years, the university has come to be an internationally respected educational, scientific and research institution.

Over the recent years, Brno University of Technology has been among the world's best universities according to QS World University Rankings and THE World University Rankings. BUT has also been among first two Czech universities that were awarded the ECTS Label and DS certificate by the European Union.

In addition to an excellent academic background, the university's 22 thousand students are offered a wide range of sports and cultural events in modern facilities.

Facts about BUT

8 Faculties

3 University institutes

6 Regional Research and Development Centres

Founded in **1899**

70+
Sports on offer by Centre of Sports Activities

21 235
Students

4 456
International Students

Faculties

- Faculty of Architecture
- Faculty of Business and Management
- Faculty of Chemistry
- Faculty of Civil Engineering
- Faculty of Electrical Engineering and Communication
- Faculty of Fine Arts
- Faculty of Information Technology
- Faculty of Mechanical Engineering

University institutes

- Central European Institute of Technology (CEITEC)
- Centre of Sports Activities
- Institute of Forensic Engineering

Faculty of Architecture (FA)

study@fa.vutbr.cz

www.fa.vutbr.cz

Students are educated to become specialized architects with enough comprehensive knowledge to manage work and projects in the building process. They have the scientific capacity to approach both the conceptual and technical issues faced in architecture providing their own solutions to the construction, conversion, and modernization of buildings. In addition to designing architectural plans and projects for buildings, they can also work on the buildings interiors and exteriors. Attention in the curricula is also paid to questions of environment-friendly and low-energy architecture.

Master's Study Programme

Length of study: 2 years

Type of study: full-time

Degree: Master's degree (abbr. "Ing. arch.")

Deadline for application: 15th March 2018

Study fee: EUR 7,000 per academic year

Architecture and Urban Design

Field of Study: Architecture

Faculty of Business and Management (FBM)

study@fbm.vutbr.cz

www.fbm.vutbr.cz

By their profiles, graduates are intended for senior expert and management positions at EU based enterprises. They are capable of critically analysing all problems encountered in business and financial processes in a global environment as well as of evaluating such processes and delivering standard strategic and operative managerial financial and business solutions.

Bachelor's Study Programme

Length of study: 3 years

Type of study: full-time

Degree: Bachelor's degree (abbr. "Bc.")

Application deadline: 31st March 2018

Study fee for applicants from: the Czech Republic and Slovak Republic: 39,000 Kč / 1,500 EUR; other European countries: 4,000 EUR; non-EU countries: 8,000 EUR

Economics and Management

Field of Study: Entrepreneurship and Small Business Development

The graduate has knowledge and skills necessary to start and develop his/her business activity and to develop and operate small and medium sized companies. The graduate is able both to create and identify business opportunities and implement methods of their utilization. Due to the unique system of teaching, students will acquire necessary knowledge and skills on the basis of their practical experience with the business activity. Graduates gain real experience with the application of theoretical concepts and knowledge in the business environment. Competence of the graduate comes out from the experience with the teamwork, the interaction of the team and company with customers, suppliers, competitors, business partners and other external stakeholders.

Master's Study Programme

Length of study: 2 years

Type of study: full-time

Degree: Master's degree (abbr. "Ing." and "Msc.")

Application deadline: 31st March 2018

Study fee for applicants from: EU countries: 800 EUR; non-EU countries: 2,400 EUR; + 2,850 GBP for semester in Nottingham Trent University

Economics and Management

Field of Study: European Business and Finance

The aim of the Joint MSc Degree in European Business and Finance is to develop managers capable of working in a pan-European cross-cultural business environment. It is a response to the fast changing European academic environment and reflects the Bologna process that is strongly supported by the British Higher Education Authorities too.

This programme has been jointly designed by all participant universities and is recognised by Nottingham Trent University, the Czech Ministry of Education, the Polish Ministry of Education.

Distinctive features

- The joint degree provides a unique opportunity for students to live and study in more than one European country across the two year programme.
- Graduates will gain cross-cultural experience and market intelligence that is highly recognised by future employers, and excellent job opportunities in a very competitive European labour market.
- The joint degree is a qualification recognised locally by the top European universities.

The Joint MSc Degree in European Business and Finance will:

- provide students with an opportunity to develop multicultural and multilingual communication skills which enables participants to communicate effectively with both the academic and the managerial and business communities;
- promote a critical and analytical approach to the use of information in multilingual and multicultural business situations;
- develop students' ability to design and implement a research project based on up to date knowledge and practical experience of the changing European and global business environment;
- enhance awareness and understanding of the changing international context for the practice of European business and finance;
- develop student's comprehensive knowledge and understanding of an European finance specialised area.

Doctoral Degree Programme (PhD Programme)

Length of study: 4 years (full-time), 7 years (part-time)

Type of study: full-time, part-time

Degree: Doctoral degree (abbr. "Ph.D.")

Application deadline: 27th April 2018

Study fee: EUR 1 850/1st year, EUR 1 500/2nd year, EUR 1 000/3rd year

Company Management and Economics

Field of study: Company Management and Economics

The doctoral study programme focuses on academic research and independent creative work in company management and economics. Students are engaged in academic and research projects at the Faculty of Business and Management and are motivated to submit their own academic and research projects. Publication of the results of their work comprises an integral part of these activities. Study subjects on the doctoral study programme are stipulated in such a way that the doctoral student, in co-operation with his or her supervisor, gains an adequate foundation corresponding to the current state of knowledge in the field to which the focus of the study programme belongs. Professors, senior lecturers and other distinguished experts in the given fields teach the study subjects and hold examinations in them.

Faculty of Chemistry (FCH)

international@fch.vutbr.cz

www.fch.vutbr.cz

Faculty of Chemistry of Brno University of Technology offers various study programmes in the field of chemical and foodstuff branches focused on the education of the graduates for the research, production, application and sale of the products of chemical, pharmaceutical, foodstuff, consumer and civil industries and for public – administrative sphere as well. The graduates are prepared to work in standard and management positions in research and industry.

Students can take part in various activities and events organized by the faculty (Chemistry&Life Conference, Researchers' Night, Summer Schools etc.) and they also can spend part of their study abroad.

Doctoral Degree Programme (PhD Programme)

Length of study: 4 years

Type of study: full-time, combined

Degree: Doctoral degree (abbr. "Ph.D.")

Deadline for application: 30th April 2018

Study fee: EUR 7,000 per academic year

Macromolecular Chemistry

Field of study: Chemistry of Macromolecular Materials

The post-graduate in Ph.D. study programme Macromolecular Chemistry is able to formulate independently the scientific problem, to design the hypothesis for the solution and to carry out experimental and theoretical work for its confirmation. Simultaneously, he/she is capable of critical evaluation of published scientific information and of presentation of experimental results.

Physical Chemistry

Field of study: Physical Chemistry

Ph.D. study programme is focused on different problems such as colloidal chemistry of macromolecular systems, optical and electronic properties of organic semiconductors for organic electronics and photonics, chemistry of free radicals, photochemistry, plasmochimistry and plasmophysics, computer application in chemistry, chemical technology and physics.

Chemistry, Technology and Properties of Materials

Field of study: Chemistry, Technology and Properties of Materials

The aim of the study is to raise experts in the field of materials engineering and engineering technologies with the emphasis on chemical processes and material properties. The study also includes the principles

of testing and measuring methods that will qualify the students both for the positions of technology team supervisors in chemical plants and work in the basic and applied research, research and development institutes involved in the testing of physically-chemical characteristics of substances and also in companies focused on the production of novel, perspective materials. This is what the domestic and international internships are aimed for. The teaching load in seminars provides the doctoral students with the basic experience and contacts with students and qualify them for the future secondary and post-secondary teaching positions.

Chemistry and Technology of Foodstuffs

Field of study: Chemistry and Technology of Foodstuffs

The aim of the study is to reach the balance between theoretical and experimental skills and the application of the general procedures in chemistry and food technology. The program is oriented both in food production with the emphasize to secure and develop advanced technologies, as well as in quality control and safety of food products. That is why the students will complete courses of disciplines necessary for the study.

The program is oriented both to food production with the respect to the implementation and development of advanced technologies and to the control of quality and safety of food products. This corresponds with the necessary disciplines the students will complete during the course of their studies. The graduates find jobs in the university and non-university research, in the research and development departments of private companies – both in the Czech Republic and the EU (e.g. European Food Safety Authority, DG SANCO), in the complex of agro-food plants etc. The graduates are also qualified to work in the institutions of state control and business organizations.

Faculty of Civil Engineering (FCE)

study@fce.vutbr.cz

www.fce.vutbr.cz

Students graduating from this faculty can work in leading and management positions of different levels at implementation companies, investment organisations and design studios. Most often, they will work as construction project managers, public construction managers, company economists, quality managers, site managers, and supervisors. They are trained to guarantee superior-quality construction, good architectural and construction detail, and to acquire the capacity to transform the underlying theoretical background of a construction into a quality project.

Bachelor's Study Programme

Length of study: 4 years

Type of study: full-time

Degree: Bachelor's degree (abbr. "Bc.")

Application deadline: 31st March 2018

Study fee: EUR 5,000 per academic year

Civil Engineering

Field of Study: Building Constructions

Master's Study Programme

Length of study: 1.5 years

Type of study: full-time

Degree: Master's degree (abbr. "Ing.")

Application deadline: 31st March 2018

Study fee: EUR 5,000 per academic year

Civil Engineering

Field of Study: Building Constructions

Doctoral Degree Programme (PhD Programme)

Length of study: 4 years

Type of study: full-time, combined

Degree: Doctoral degree (abbr. "Ph.D.")

Application deadline: 31st July 2018 (beginning of the study 9/2018) 11th December 2018 (beginning of the study 2/2019)

Study fee: EUR 5,000 per academic year

Civil Engineering

Fields of Study:

Structures and Traffic Constructions

Building Constructions

Physical and Building Materials Engineering

Civil Engineering Management

Water Management and Water Structures

Faculty of Electrical Engineering and Communication (FEEC)

study@feec.vutbr.cz

www.feec.vutbr.cz

In its specialised programmes, the faculty prepares qualified experts in all fields of light and heavy current electrical engineering and electronics, communication technology, teleinformatics, biomedical engineering, bioinformatics, robotics, automation and measurement, computing technology, power engineering, electric devices and systems, electrical engineering production and management.

Bachelor's Study Programme

Length of study: 3 years

Type of study: full-time

Degree: Bachelor's degree (abbr. "Bc.")

Deadline for application: 30th March 2018

Study fee: EUR 3,000 per academic year

Electrical, Electronic, Communication and Control Technology

Fields of Study:

Electronics and Communication
Automation and Measurement
Power Electrical and Electronic Engineering
Microelectronics and Technology
Teleinformatics

Master's Study Programme

Length of study: 2 years

Type of study: full-time

Degree: Master's degree (abbr. "Ing.")

Application deadline: 30th March 2018

Study fee: EUR 3,000 per academic year

Electrical, Electronic, Communication and Control Technology

Fields of Study:

Biomedical and Ecological Engineering
Cybernetics, Control and Measurement
Power Electrical and Electronic Engineering
Electrical Manufacturing and Management
Power Electrical Engineering
Microelectronics
Electronics and Communication
Communications and Informatics

Audio engineering

Field of study: Audio engineering

Doctoral Degree Programme (PhD Programme)

Length of study: 4 years

Type of study: full-time

Degree: Doctoral degree (abbr. "Ph.D.")

Application deadline: May 2018
(for detailed information contact study department)

Study fee: first year EUR 4,500;
further years EUR 4,000 per academic year

Electrical Engineering and Communication

Fields of Study:

Biomedical Electronics and Biocybernetics
Cybernetics, Control and Measurements
Electronics and Communications
Mathematics in Electrical Engineering
Microelectronics and Technology
Physical Electronics and Nanotechnology
Power Electrical and Electronic Engineering
Teleinformatics
Theoretical Electrical Engineering

Faculty of Information Technology (FIT)

study@fit.vutbr.cz

www.fit.vutbr.cz

Do you want to study at beautiful historical campus full of the best technologies (supercomputer, fly simulator, robots, computer clusters etc.)? Be involved in industry and research projects? Learn from the best lecturers that lead the research at world level? Meet students from all around the world? Be part of the university city called Silicon Valley of mid. Europe? Then the Faculty of Information Technology, BUT, is your right choice!

Master's Study Programme

Length of study: 2 years

Type of study: full-time

Degree: Master's degree (abbr. "Ing.")

Application deadline: 30th March 2018

Study fee: EUR 3,000 per academic year

Information Technology

Field of study: Computer Graphics and Multimedia

Become the Master at Computer Graphics and Multimedia. The full-degree Master's study programme prepares qualified experts for wide range of jobs in research and development of systems that exploit

computers for images and sound. The graduates master the basic and in-depth knowledge of image synthesis in computer graphics, speech processing and recognition, sound and video sequences algorithms for multimedia, and development of systems for human-computer interaction. Practise in teams focused on industry and research projects specialize the graduates in software development, in the industrial applications, in media companies, radio and television studios, in scientific simulations and computer games development.

Doctoral Degree Programme (PhD Programme)

Length of study: 4 years

Type of study: full-time

Degree: Doctoral degree (abbr. "Ph.D.")

Application deadline: May 2018

Study fee: 4,000 EUR/year

Computer Science and Engineering

Fields of study prepared individually:

Bioinformatics and Biocomputing
Computer-based and Embedded Systems
Computer Networks
Computer Graphics and Multimedia
Information Systems
Intelligent Systems
Safety and Security
Theoretical Computer Science

The Doctoral study programme of computer science and engineering has been prepared for outstanding graduates at master's level in information technology and similar fields. The students of the Doctoral study programme will be educated and trained in research and education with focus on information technology according to individually prepared study plans. The graduates can utilize education and experience at distinguished research centres, as heads of research and development teams, or in university scientific and/or pedagogical career. The graduates of this programme are qualified to occupy highly demanding positions in institutions and companies, where creative and independent work is required as well as efficiency in tasks, such as analysis of complex problems or design of novel and original solutions.

Faculty of Mechanical Engineering (FME)

study@fme.vutbr.cz

www.fme.vutbr.cz

Depending on the field of study chosen, the students will gain comprehensive knowledge needed for jobs in mechanical, electrical, automotive, and aviation engineering industries where state-of-the-art technology and nanotechnologies are applied, in research, at design institutes and studios, in management, business and servicing activities, in process management, in launching process control systems, quality assurance systems, as representatives of global companies, and in research.

Bachelor's Study Programme

Length of study: 3 years

Type of study: full-time

Degree: Bachelor's degree (abbr. "Bc.")

Application deadline: 31st May 2018

Study fee: EUR 2,999 per academic year

Engineering

Fields of Study:

Fundamentals of Mechanical Engineering
Applied Computer Science and Control

Applied Sciences in Engineering

Fields of Study:

Mathematical Engineering
Physical Engineering and Nanotechnology

Master's Study Programme

Length of study: 2 years

Type of study: full-time

Degree: Master's degree (abbr. "Ing.")

Application deadline: 31st May 2018

Study fee: EUR 2,999 per academic year

Applied Sciences in Engineering

Fields of Study:

Precise Mechanics and Optics
Mathematical Engineering
Physical Engineering and Nanotechnology

Mechanical Engineering

Fields of Study:

Process Engineering
Applied Computer Science and Control
Aircraft Design

Doctoral Degree Programme (PhD Programme)

Length of study: 4 years

Type of study: full-time

Degree: Doctoral degree (abbr. "Ph.D.")

Application deadline: 31st May 2018

Study fee: EUR 2,999 per academic year

Applied Natural Sciences

Field of Study:

Applied Mathematics

Applied Sciences in Engineering

Field of Study:

Applied Mechanics

Machines and Equipment

Fields of Study:

Design and Process Engineering

Manufacturing Technology

Field of Study:

Manufacturing Technology

Physical and Materials Engineering

Field of Study:

Physical and Materials Engineering

Central European Institute of Technology (CEITEC)

phd@ceitec.vutbr.cz

www.ceitec.eu

CEITEC BUT offers very stimulating environment to do specific research and to get a PhD degree in the doctoral programme "Advanced Materials and Nanosciences". The state-of-the-art facilities and available expertise guarantee high-quality international environment for your studies and research. Talented and strong-minded students are offered the opportunity to earn a doctorate under unique research conditions and high-level leadership.

The programme itself is based not only on the CEITEC project but also on long-term cooperation of two universities and one research institute (Brno University of Technology, Masaryk University and Institute of Physics of Materials of the Academy of Sciences of the Czech Republic).

Doctoral Degree Programme (PhD Programme)

Length of study: 4 years

Type of study: full-time

Degree: Doctoral degree (abbr. "Ph.D.")

Application deadline: 16th May 2018

Study fee: EUR 3,000 per academic year

Advanced Materials and Nanosciences

Fields of Study:

Advanced Nanotechnologies and Microtechnologies

Advanced Materials

My name is José Pedro Nunes Lima Terroso and I am a 25 years old student from Universidade Trás-os-Montes e Alto Douro in Vila Real, Portugal. For the last two and a half years I have studied at Brno University of Technology, Faculty of Civil Engineering.

I also found perfect course that fitted to my study programme and after I pass my courses in the Czech Republic I can get equivalence almost for all exams according to ECTS at my university.

This university created a significant addition to my higher education and international learning experience with people from different cultures. These years in the Czech Republic helped me to develop my independence and skilled practical qualifications and also opened my mind for working experience.

José Pedro Nunes Lima Terroso, Portugal
(Faculty of Civil Engineering at BUT)

STUDENT SERVICES

Meals and accommodation

Brno University of Technology offers its students excellent background for study as well as other activities. Students stay at five halls of residence offering 6,000 beds. Most of the halls feature a study room, TV room, game hall (pool, table tennis, etc.), kitchenette, laundry, bike room, access to high speed Internet and some even offer an outdoor playground. In sixteen BUT canteens, students can buy tasty and healthy meals for moderate prices. Several meals are always on the menu in the traditional university canteens, restaurants, snack bars, pizzerias, and coffee bars.

www.kam.vutbr.cz/english

Health care and insurance

On submission of a European Health Insurance Card, EU citizens are entitled to treatment by a general practitioner, dentist, and at hospital. Other international students are recommended to arrange a health insurance including hospitalization in their home country before leaving for the Czech Republic. In emergency cases, this insurance can also be arranged with a local health insurance agency in the Czech Republic. With this insurance, you can see any doctor in the Czech Republic.

Student disability services

The Alfons support centre for students with special needs offers a wide range of services provided by trained psychologists and counsellors. Students with specific learning difficulties, visual, hearing and physical impairments, mental health problems and chronic diseases can specify their interest in the assistance when submitting the e-Application.

www.alfons.vutbr.cz/en

Sports

While the city of Brno organises numerous sporting events, Brno University of Technology has its own sport centre which offers a wide range of activities for students, such as aerobics, badminton, bowling, indoor cycling, swimming, horse-back riding or squash. For BUT students most of the activities are free of charge. Situated at the Pod Palackého vrchem campus, the university's largest sports ground boasts an athletic stadium with surface meeting the Olympic standards, an indoor sports hall for futsal, football, basketball, and volleyball. BUT students can choose from a wide range of sports offered by the BUT Centre of Sports Activities. Currently, they include more than 70 sports specialisations at different performance levels.

www.cesa.vutbr.cz/about-cesa

The most important thing that influenced my choice... it was the opportunity to design my own study program, which was crucial. There aren't many universities where you can choose what to study from all the subjects, from all the years at a particular faculty. Most of them offer fixed programmes for exchange students and, actually, you are not able to study what you really want.

There was no such thing as 'language barrier'; all of the teachers were fluent in English, very open-minded and tolerant.

The facilities which BUT offers are good enough to fill in students' free time with what they are supposed to do in their free time. I didn't face problems finding a book or material in the Faculty of Civil Engineering library or finding a PC for doing my projects.

I almost forgot the most important – MENZA! – always so tasty food and those always-smiling-ladies.

The place where I lived, Pod Palackého vrchem, was very well-organized, tidy, and calm... There were all the things we need in the dormitories: kitchens, study rooms, laundries, etc.

Denislav Atanasov, Bulgaria
(Faculty of Civil Engineering at BUT)



USEFUL INFORMATION

Czech Republic

The Czech Republic is situated in Central Europe. With its population of 10.5 million, it is one of the smaller European countries. It is not only the beauty of its capital Prague but also a world of unique historic sites that makes it an attraction to Brno University of Technology tourists. Thanks to its geography, you can explore the charms of the Czech mountains and romantic countryside one day and the next day set out in search of architecture, cultural and sports events in the big cities.

History

An independent state of Czech and Slovaks was proclaimed at the end of World War I in 1918. During World War II, Czechoslovakia was occupied by Nazi Germany becoming part of the Soviet block after the war. In 1989, the totalitarian regime was overthrown and democracy reinstated. On 1st January 1993, Czechoslovakia split into two countries – Czech and Slovak republics. Since 12th March 1999, the Czech Republic has been a member of NATO; on 1st May 2004, it joined the European Union becoming part of the Schengen Area in December 2007.

Facts and information

By its structure, the political system of the Czech Republic is a parliamentary democracy with the president and government as law enforcing bodies.

Most people live in the capital city Prague (1.3 million) and in the second largest city of Brno (about 400 thousand). Czech is the official language, but you can also make yourself understood in English, German, and Russian.

Brno – city in the middle of Europe

Thanks to its geographical position and good transport lines, you can reach from Brno cities like Prague, Vienna (Austria), and Bratislava (Slovakia) easily as they are distant less than 200 km. Brno the capital of the South Moravian Region, is home to 85,000 students studying at 6 public and 7 private universities. It is a vibrant city with a young and inspiring spirit, a great place to live, study and do research. Huge investments in infrastructure, along with high-tech institutions, make it an attractive hub for international technological corporations and innovative companies that choose Brno for their branches. In addition to that, Brno enjoys its selection as one of the best places to live according to the New York Times and Numbeo.

What makes Brno so special? A combination of its technology industry with immense employment potential, world-respected architecture ranging from stunning historical palaces to functionalist jewels like the famous UNESCO-listed Villa Tugendhat, and citizen-friendly services are only a few elements for all who seek a modern lifestyle with perspective. Residents and guests find that Brno is also a very safe place to live.

ISC BUT International Students Club

The main intention of the ISC is to provide help and advice to international students concerning everyday matters and problems before, during and after arrival to Brno. Another part of our work is to make your stay enjoyable by organizing Welcome Week, various trips, excursions, free time activities and gatherings of all kinds during your stay at BUT. International Students Club is a voluntary organization, founded thanks to the desire to help Erasmus and international students when they come to study at BUT. ISC is a non-profit organization, and all work related to organizing trips, events, information meeting, season tickets, pickup service, Czech language course, etc. is done by our members for free.

isc.vutbr.cz

My name is Valentina Marsala and I am a Ph.D. student of chemistry from the University of Palermo in Italy.

...I had the opportunity to work with friendly people in a very pleasant international environment. Collaboration and comparison among students and researchers from different countries promote personal and professional growth. At the Faculty of Chemistry I visited several laboratories with high-quality technological instruments where students, researchers, and technicians work hard on various interesting original projects.

The accommodation at the campus, close to the faculty is cosy; there are many facilities for foreign students to have a good stay. About the city, Brno is a very beautiful place, from many points of view. The city is rich in interesting historical monuments, museums, gardens, beautiful squares, often the scenes of cultural events.

Valentina Marsala, Italy
(Ph.D. Student of Chemistry at BUT)



8 faculties

unique **sports facilities**

athletic stadium
with Olympic quality

4,456
international
students

#601–800



#651–700



7 RESEARCH
CENTRES

NETME Centre
New Technologies for Mechanical Engineering

CVVOZE
Centre for Research and Utilization of Renewable Energy

SIX
Centre for Sensor, Information and Communication Systems

ADMAS
Advanced Materials, Structures and Technologies Centre

CMV
Materials Research Centre

CEITEC
Central European Institute of Technology

IT4Innovations



small country

BUT

great history

dynamic development

excellent scientific research





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www.vutbr.cz

