ANNUAL REPORT

ON THE ACTIVITIES OF BRNO UNIVERSITY OF TECHNOLOGY FOR THE YEAR 2024

BRNO UNIVERSITY OF TECHNOLOGY

The Annual Report on the Activities of Brno University of Technology for the Year 2024 (Annual Report on the Activities) is submitted in accordance with Act No. 111/1998 Coll., on Higher Education Institutions and on Amendments and Supplements to Other Acts (Higher Education Act).
It was prepared according to the framework curriculum on the activities of the university for 2024, issued by the Ministry of Education, Youth and Sports (MEYS).
The document is divided into a textual and a tabular part, which has a fixed structure according to the framework curriculum. On the contrary, according to the instructions of MEYS, it is entirely the responsibility of the university and presents information beyond the required curriculum.

The Annual Report on the Activities provides data and substantial results of all activities related to the activities of BUT within the Czech and international higher education and offers the general public an overview of its significant scientific and research activities.

In case of any discrepancies between the Czech and the English version, the Czech version prevails.

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1 Introduction

1.1 Opening Remarks by the Rector

Dear readers,

You are now receiving the Annual Report on the Activities of our university for the past year 2024. It was truly an exceptionally significant year for us. We celebrated 125 years since the establishment of our university in 1899. It was also the 175th anniversary of the establishment of the technical institute named K.k. technische Lehranstalt – C.k. technické učiliště in 1849, which marked the beginning of technical education in Brno. The year 2024 was permeated with numerous significant events at both national and international levels, which we either directly organised or actively participated in – and not only in connection with the anniversary celebrations. We took steps towards fulfilling the strategic objectives that we had set ourselves and whose achievement we consider crucial for fulfilling our university's mission – both in education and research, as well as in building a favourable image, credit and strengthening our university's respected position on national and international scales. I believe we can proudly state that thanks to the joint efforts of our faculties, university institutes and constituent units, and above all you – our employees, students, graduates and partners from both industrial and public sectors – the past year was a successful one. I also trust that this Annual Report on the Activities serves as evidence thereof.

Although the entire Annual Report on the Activities focuses on specific results and activities of our university, allow me to highlight several topics that I consider fundamental. The year 2024 was marked, among other things, by significant development in semiconductor technologies, nuclear energy, and the space industry – areas in which we, as the country's leading technical university, played a truly active role.

The Government of the Czech Republic presented the National Economic Strategy, which aims to embark on a path towards building a value-added economy based on knowledge and innovation, emphasising primarily the strengthening of national economic competitiveness. In this context, our university recognises its crucial role, both in technical education, which is a key source of qualified workforce for industry that continues to represent the dominant source of Czech GDP, and in technological research. Therefore, promoting interest in Science, Technology, Engineering and Mathematics (STEM) education has become a significant and fundamental communication line of our university, both at national and international levels. To support STEM education in 2024, we continued building partnerships with all stakeholders – primarily with industry, universities, the Ministry of Education, Youth and Sports (MEYS), the Ministry of Industry and Trade, the Ministry of Transport, the Government Office, and developing cooperation with the South Moravian Region and the City of Brno.

We signed a key memorandum for the STEM project focused on supporting technical and science education in the South Moravian Region, together with nearly twenty partners, particularly from the HiTech industry and partner universities. We conducted our own surveys at the national level among industrial partners, and through the STEM project also among students and pupils of secondary and primary schools. We organised the second annual discussion meeting to support STEM education, attended by the Prime Minister, representatives of MEYS led by the Minister of Education, Youth and Sports, rectors or vice-rectors of science and technical universities, and top industry representatives. At this meeting, we presented the results of conducted surveys and initiatives in the area of STEM education support.

We actively participated in national and international meetings on the STEM topic and organised a meeting of the Teaching and Learning working group of the CESAER international network of technical and research universities at our university. At the same time, we have advocated for the establishment of and actively participate in the MEYS working groups dedicated to supporting contractual funding of selected technological fields. We have also negotiated a pilot model of this funding, focused on the field of semiconductor technology studies and chip design. In doing so, we realised how crucial it is to maintain attention to and promote STEM education as a source of competitiveness for both the Czech and EU economies so that it is reflected in national education policy.

We immensely value the cooperation with partners from industry and the application sphere, which we have elevated to a qualitatively new level. We have assembled the Industry Council BUT from our industrial partners and invited its members to consider the profile of graduates from our study programmes, to conduct surveys on interest in STEM education and educational needs, as well as to support knowledge transfer and create conditions for successful cooperation on research projects.

We have launched new bachelor's and master's degree programmes that reflect industry demand and national economic needs, and we have also launched professional supplementary MSc education programmes.

In school management, we have purposefully focused on strategic areas of inter-faculty cooperation and supported their presentation not only at the university but also significantly at national and international levels, both among professional and broader public. In the context of supporting the national economic strategy, we have significantly focused on semiconductor technologies and (nuclear) energy, for which we have also accredited new inter-faculty study programmes.

We actively participated in the development of the National Semiconductor Strategy and, in accordance with it, achieved a key milestone: together with partner institutions and organisations, we prepared, submitted, defended and obtained a project to establish the Czech National Competence Centre for Semiconductors. Subsequently, as part of a consortium of partners, we established it as an independent unit of our university, and recently (April 2025) we ceremonially opened it in the presence of the Prime Minister, the Minister of Education, Youth and Sports, representatives of not only the semiconductor industry but also representatives of European semiconductor initiatives, particularly Silicon Europe and Silicon Saxony.

In the field of nuclear energy, we organised the Forum of Rectors of the Visegrad Four Universities and the Republic of Korea at the university, which focused on nuclear energy as well as STEM education for human resources development in the (nuclear) energy sector.

We significantly supported development in the field of space technologies, including the active involvement of our university in the national project Czech Path to Space. We developed the profiling and presentation of the university in the field of environmental technologies, which permeate all technological areas at our university. Likewise, across the university, reflecting current societal needs, we paid attention to technological cooperation with the defence sector, where our expertise covers a wide range of potential technological applications. We organised a meeting of Czech universities with representatives of the Ministry of Defence and Armed Forces of the Czech Republic at our university and prepared conditions for developing systematic cooperation in the field of research at our university in this area.

We also focused on activities that lead both to fulfilling adopted strategic objectives and to shaping the strategic profile of our university in areas where we achieve excellent results and international competitiveness. We work with more than twenty specialist areas that have such competitive potential. To this end, in 2024, along with the intention to evaluate the quality and performance of research prior to the planned national evaluation of research organisations, we underwent a comprehensive international evaluation of research, artistic and other creative activities, as well as doctoral studies. We carried it out in cooperation with and with the support of our BUT International Scientific Advisory Board and with the participation of forty international evaluators as preparation for the evaluation of research organisations planned for 2025.

As signatories to the international agreement and the Coalition for Advancing Research Assessment (CoARA) on research evaluation reform, and also in connection with the implementation of the national knowledge transfer reform initiative, we (in accordance with the amendment to research evaluation principles in the emerging national M25+ methodology) modified the methodology for allocating institutional research support and focused on setting up a system to strengthen the emphasis on research results applicability.

We have been successful in securing projects at both national and international levels, which has resulted in obtaining numerous projects within Horizon Europe, Czech Science Foundation (GA CR), Technology Agency of the Czech Republic (TA CR), Operational Programme Johannes Amos Comenius (OP JAC) and the National Recovery Plan. In particular, we secured another prestigious European Research Council (ERC) grant for the university and four new prestigious Czech Science Foundation grants (two GA CR EXPRO and two GA CR Junior Star grants).

We have liberalised the system of knowledge transfer support and development of entrepreneurial activities, in terms of start-ups and spin-off companies, including student-led initiatives. We organised the National Knowledge Transfer Conference at the university, and thanks to the established support for knowledge transfer and entrepreneurship support, four new spin-offs and start-ups were established at BUT in 2024, three of which were student-led. We continued developing the contriBUTe innovative and entrepreneurial ecosystem in cooperation with the Faculty of Business and Management BUT (FBM BUT). We evaluated the previous round and launched a new round of the student competition called Go to Business! (Pojď podnikat!), which generates excellent business plans from our students. We were also successful in the field of arts where, despite not being an art academy, we achieved second place amongst all art schools nationwide in terms of artistic output production and quality. We dedicated a special issue of the university magazine "BUT News" to artistic activities at BUT.

We focused on strengthening internationalisation and international cooperation. Our participation in the European University Alliance EULiST, which has obtained the status of a registered European University, continues to play an increasingly important role in this area. In 2024, we organised the General Assembly of the Alliance and secured its presidency for the following two years. We presented our existing experience in managing the Alliance at the international CZEDUCON conference.

We are increasingly aware that the fundamental source of our university's wealth lies in its people. We therefore focused on setting up working conditions and environment in line with the principles of the international HR AWARD, which we hold. We also concentrated on wage policy, where

we increased tariffs and introduced new employee benefits, amongst other measures. We also emphasised the establishment of a social security system and ensuring a safe environment, both in terms of prevention and resilience against security incidents, and in matters of ethics, academic integrity, democracy, equal opportunities, as well as knowledge security in the context of geopolitical constraints.

We gained membership in the Advisory Group for Financially Sustainable Universities at the European University Association (EUA) and collaborated both internationally and nationally on the analysis and development of higher education funding models. We actively participated in the EUA Funding Forum 2024 in Helsinki with a contribution dedicated to the Czech higher education funding system.

Throughout the year, the university was visited by numerous distinguished personalities to whom we presented, in addition to professional discussions, our research outcomes, technologies and activities relevant to their respective fields of expertise. In particular, we welcomed President Petr Pavel to the university, to whom we had the opportunity to present our student creative teams along with their outputs. This was followed by a discussion with BUT students focusing primarily on technical education and innovation. The Prime Minister repeatedly accepted invitations to the university in connection with the aforementioned continuation of the round table on STEM education, together with the Minister of Education, Youth and Sports. We were also visited by the Minister of Transport, as well as the Director of the Space Programme and Guarantor of the Czech Path to Space project, and representatives of the Ministry of Defence and the General Staff of the Army of the Czech Republic, for whom we organised a presentation on the possibilities of technological cooperation with universities. As part of the development of international relations and mutual cooperation, we also welcomed the ambassadors of the USA, South Korea and Slovakia – a country that remains an important source of high-quality students for us. In connection with the development of semiconductor technologies, we also welcomed numerous delegations of representatives from universities and research institutes from Taiwan at the university.

Our academic and research staff members have received numerous prestigious awards for their teaching, research and artistic achievements at both national and international levels. We have also awarded the title of doctor honoris causa to two distinguished women in science.

Our students have also excelled in national and international competitions, both for their professional work and academic results, as well as for their scientific, artistic and other creative activities and sporting achievements. Particular recognition should be given to their achievements in creative activities in national and international competitions, as well as their dedication in supporting the university's presentation during visits by distinguished personalities.

Not only due to the above, we have defended our positions from last year in all major international university rankings Quacquarelli Symonds (QS) World University Ranking, Times Higher Education (THE) World University Ranking Academic Ranking of World Universities (Shanghai Ranking, ARWU) despite growing competition. In specific criteria, for example in the main THE ranking, we were rated as first among Czech universities in industry collaboration. At the end of the year, we received the results of the QS World University Rankings: Sustainability 2025, where we placed five hundred for the first time, specifically in 477th place. This confirmed the importance of the systematic work we do at the university in the field of sustainability.

We could certainly continue at length, but a more detailed evaluation of the achieved results is presented in the following chapters of the BUT Annual Report on the Activities for 2024. We are genuinely delighted with all these outstanding achievements, events and awards. This merely confirms that BUT truly has exceptional people – both staff and students, as well as excellent graduates and partners. And we can be rightfully proud of that.

Year 2025

Now, the year 2025 is upon us and with it new challenges. First and foremost, we shall implement the amendment to the Higher Education Act, particularly focusing on the reform of doctoral studies and their funding. The University will also undergo a new quality assessment and research performance evaluation according to the new methodology termed Methodology 25+. Achieving the highest rating represents a fundamental challenge for us.

In the field of education, we shall undoubtedly continue to support STEM education at both national and international levels and transform the acquired insights into our study programmes. We shall focus primarily on consistently deriving the content of new study programmes from conducted analyses of educational needs and employer requirements. We shall further increase the proportion of optional subjects, reflect on causes and seek solutions to academic failure in cooperation with secondary and primary schools, including the preparation of studies for teacher training in STEM subjects at these schools. We also anticipate a significant expansion of the range of educational and qualification programmes for further professional development, including those culminating in micro-credentials.

We shall significantly focus on strengthening the development of student creative activities. In 2025, we shall primarily commence construction works to expand the capacity of the existing laboratories. We shall continue to focus on improving conditions for the development of student creative activities and teams, as well as supporting

their participation in national and international competitions. An integral part of our support will continue to be the traditional support of student sporting activities and student sports representations.

We will continue to profile and support the development of strategic professional and inter-faculty areas and aim to support and create conditions for achieving excellence in research, art and other creative activities, with emphasis on the applicability of results, as well as support for obtaining prestigious grant titles – especially ERC or ERC CZ, GA CR EXPRO, GA CR Junior Star, Horizon Europe, Teaming, MCSA and others. Simultaneously, we will continue profiling the research environment, including the development of human resources capacity in research and strengthening the involvement of international staff, particularly in post-doctoral positions.

We must focus on ensuring the development of research infrastructure, which is essential for strengthening the competitiveness of research outcomes. We will continue to focus on knowledge transfer and business support with achieved results in research and development, as well as support for expert activities, including seeking ways to consolidate the current legislative environment in the Czech Republic (CR). In the field of artistic creation, we will create conditions for the development of all artistic disciplines cultivated at our university – fine and multimedia art, design and architecture – and appropriately strengthen their connection with technological fields. We will also pay attention to profiling activities in the area of sustainability and development of environmental technologies. We will promote support for the development of artistic activities at universities at the national level through representation in the Board of the Register of Artistic Outcomes at the vice-rector level and in the Council of Higher Education Institutions through the BUT representative, who chairs the Artistic Development Committee.

However, people must remain the central theme at our university – our academic and research staff, female and male students who form an integral part of the academic community, as well as administrative and technical staff who ensure the operation of the university. In the employee section, we recognise the need to reflect the economic environment, and therefore we will continue to address issues of wages, adjustment of wage rates and optimisation of employee benefit offer. In the student part of the academic community, it will be about finding ways to improve study conditions and, in the case of doctoral studies, also about the issue of implementing doctoral study reform according to the amendment to the Higher Education Act and setting up doctoral study income funding.

Common themes in 2025 will continue to be social safety, related counselling and support, safe environment, gender equality and equal opportunities, as well as ethics, academic integrity and knowledge security.

The year 2025 is also the year in which we will prepare a new strategic plan for the university for 2026–2030. Simultaneously, the Program for the Support of Strategic Management of Higher Education Institutions are coming to an end, and a new concept for 2026+ is being prepared, in which we are participating as part of MEYS's working group. We are also participating in the preparation of a model concept of so-called contract funding for selected technological fields and anticipate active participation in the implementation of expected changes in the area of higher education funding.

Certainly, this overview cannot briefly capture everything that has happened at the university and what lies ahead, but I firmly believe that we will continue in the established trend and pace and manage everything with ease I am convinced that thanks to the joint efforts of all of us and through inter-faculty cooperation, BUT will continue to strengthen its position as a prestigious technical university both nationally and internationally. Our university is visible, primarily thanks to you, your work and the results achieved.

I am also convinced that through the results achieved in 2024, we have truly celebrated the 125th anniversary of our foundation with dignity. And so, allow me to conclude this originally intended brief introductory word with another thank you. Thank you to all of you, our employees, students, graduates and partners from the industrial and public sectors for the results achieved and cooperation in 2024, and for reading through to these lines.

I look forward to our further cooperation.

Assoc. prof. Ing. Ladislav Janíček, Ph.D., MBA, LL.M.
Rector BUT

1.2 Significant Events at BUT in 2024

Activities and Events

▲ The region, city, universities and hi-tech companies will cooperate on promoting technical education. Representatives of nearly twenty partners signed a **memorandum** aimed at increasing the number of students in STEM fields within five years. Approximately 25,000 young people are currently studying in STEM (Science, Technology, Engineering, Mathematics) fields at BUT, Masaryk University (MU) and Mendel University in Brno (MENDELU). The objective of the memorandum, signed by representatives of major private companies, universities, the City of Brno and the South Moravian Region, is to increase the number of applicants in these fields by 30% by the academic year 2028/29. The ambition of this joint effort is to attract more experts in an area that has long-term demand for specialists.

▲ During his business trip to South Moravia, **the President of the Czech Republic, Petr Pavel,** visited Brno University of Technology on Wednesday, 9 October. The programme included a debate with university students and presentations of student creative activities in technological fields, focusing particularly on automotive, aviation, aerospace and robotic applications.

At the end of January, a delegation of Czech business and academic representatives focused on **space technologies and smart mobility** accompanied the Minister of Transport of the Czech Republic to the United States of America. The mission, organised by the Ministry of Transport and the Czech Chamber of Commerce with the support of the Czech Embassy in the USA, aimed to showcase the Czech Republic's technological potential and establish business and academic cooperation with local industrial enterprises as well as academic and governmental institutions in the given field. BUT was represented on the mission by Rector Ladislav Janíček, who participated in the programme and negotiations in the field of space technologies at major centres of the American aerospace industry in Washington, Houston and Orlando.

▲ In November 2024, another **meeting was held at BUT premises, focusing on supporting technical and science education**, focused on specific steps taken to support STEM studies during the past year and also analysed the needs and expectations of students, employers and academia. The debate also focused on the new Economic Strategy of the Czech Republic and recent European Commission reports, including Mario Draghi's report, which emphasise the importance of investment in education and technological research.

Brno University of Technology welcomed a **delegation of representatives from Taiwan's National Yang Ming Chiao Tung University** (NYCU) **and Taiwan Semiconductor Research Institute** (TSRI) at the beginning of the year. During the negotiations, a memorandum of cooperation was signed in the areas of education, research and mobility of students and teaching staff. The meeting built upon previous contacts between both parties and deepened cooperation with a focus on semiconductor technologies, in which Taiwanese universities, research organisations, and particularly enterprises are world leaders. Throughout the year, further visits and personal meetings with TSRI representatives took place.

Brno University of Technology opens its doors to new students. With the new academic year, the university launched **twelve new study programmes** last autumn, responding to current industrial challenges and demands of both Czech and international markets. The portfolio of study programmes has been expanded to include Nuclear Power Engineering, Automotive Electronics and Electromobility, Mechanical Engineering Design, and Design.

Brno University of Technology hosted the 11th **National Transfer Conference** on 9 and 10 April, held under the auspices of the Transfera.cz association. The annual conference followed up on January's presentation of individual transfer reform measures and offered discussions on current issues regarding the transfer of scientific results into practice. Minister for Science, Research and Innovation Helena Langšádlová also spoke in Brno, presenting the key points of the reform to more than 130 representatives of the professional community. The event was held as part of BUT's 125th anniversary celebrations.

▲ In early March, Brno University of Technology welcomed a **delegation from the Ministry of Defence of the Czech Republic** led by Radka Konderlová, Director of the Industrial Cooperation Section. During the meeting with university management, there was a presentation of defence and security technologies that are being developed and tested at BUT in cooperation with the army or with a view to their use for national defence needs.

On 4 April 2024, the Rector of BUT inaugurated Doc. Dr. Ing. Petr Hanáček as the **Dean of the Faculty of Information Technology BUT** (FIT BUT). The Dean of FIT BUT subsequently appointed vice-deans for the upcoming four-year term.

As of 8 November, the **Faculty of Business and Management BUT** (FBM BUT) **has been taken over** by Prof. Ing. et Ing. Stanislav Škapa, Ph.D., who was elected as the candidate for Dean by the FBM BUT Academic Senate on 4 June 2024.

Students from BUT presented a new **formula racing car Dragon e4**, which will be even faster and more efficient. The ceremonial unveiling, or rollout, was held for the first time for the general public at the courtyard of Špilberk Castle. The young engineers from TU Brno Racing will take the formula racing car to three Formula Student series races in the summer and attempt to defend their position in the world's top twenty, which they achieved in the previous season.

▲ Brno University of Technology hosted representatives of European universities who met on 23 and 24 April for a meeting of the Education and Learning Working Group of the prestigious **CESAER** technical universities research network. The agenda included issues of technical education support, roles and governance models of European university alliances, proposals for greater student involvement in the association's activities, and discussions on aspects of doctoral education. The session was held as part of the ceremonial programme commemorating the 125th anniversary of BUT.

The Slovak Ambassador to the Czech Republic, Ingrid Brocková, visited Brno University of Technology at the end of April. The visit programme included meetings at Central European Institute of Technology BUT (CEITEC BUT) and the Faculty of Electrical Engineering and Communication BUT. In addition to presenting the university and discussing Slovak students at BUT, a meeting was held at FEEC BUT with representatives of students, teachers and graduates involved in space technology research at BUT.

The Department of Electrical Power Engineering at the Faculty of Electrical Engineering and Communication BUT (FEEC BUT), in cooperation with the Engineering Test Institute (ETI), unveiled a new development on Thursday, 18 April. In the presence of representatives from state administration, Czech and Slovak distribution system operators, industry associations, inverter distributor representatives and implementation companies, the **first domestic accredited testing facility for verifying inverter compliance** with Czech power grid requirements was ceremonially opened. The commercially offered service will enhance its reliability, user safety and will be particularly utilised by companies engaged in the manufacture and distribution of photovoltaic inverters in the Czech Republic.

Brno University of Technology welcomed several **world ambassadors** during the summer months. Among these distinguished guests were ambassadors from Panama, Japan and South Korea, who discussed international cooperation,

development in strategic areas and interest in technical fields and research with the university management.

On 29 May, **16 newly appointed associate professors and 54 new doctors** ceremonially entered their next life stage dedicated to science, research, artistic and other creative activities, and education, at the BUT Rector's Office. In the presence of family members, mentors, colleagues, representatives of the management of the university and faculties and university institutes of BUT, the Rector of Brno University of Technology, Ladislav Janíček, presented associate professorship appointment decrees and doctoral diplomas.

▲ As one of the main events of BUT's 125th anniversary, Brno University of Technology hosted the General Assembly of the European University Alliance **EULiST**. The programme included working group meetings and discussion panels focusing on the alliance's strategic objectives and activities. The programme also included the election of a new president of the Alliance Governing Board, with BUT Rector Ladislav Janíček being elected. He succeeded the president of the German Leibniz Universität Hannover, Volker Epping.

During 27 November, several academic ceremonies took place at the BUT Rector's Office, culminating in the ceremonial presentation of appointment decrees to **12 new associate professors and one female associate professor**. This was preceded by the graduation ceremony of 98 doctoral graduates. It was also the first time that the appointment of associate professors or doctoral graduation ceremonies was accompanied by the sound of the new university fanfare "Viva Tech".

BUT, as part of a consortium of six partners, submitted a project in 2024 to establish a national competence centre for semiconductors, which will support the objectives of **"Chips for Europe"**, the first pillar of the European Chips Act. The centre will integrate the Czech Republic into the emerging European network of competence centres. In accordance with the draft National Semiconductor Strategy, a consortium of universities, enterprises, semiconductor cluster and innovation agency is preparing the Czech national competence centre for semiconductors.

▲ Scientists from BUT excelled at the **Meltingpot Forum** during the Colours of Ostrava festival, where the audience appreciated both the quality of their research and their open approach to discussion and the popularization of science. Experts from BUT successfully made their debut at the Meltingpot discussion forums, sharing with the festival audience not only their passion for science and technology, but also inspiring experiences from their respective fields.

At the end of August, BUT was visited by Václav Kobera, **Director of the Space Activities and New Technologies Department**, and Ondřej Šváb, Head of the Space Activities Unit, both of the Ministry of Transport. The purpose of their visit was to present the field of space applications at BUT, which has a long-standing tradition here. Research and development in the field of satellites, construction and design of nanosatellites and space communication systems, as well as the development of technical solutions and technologies for space applications, are among some of the presented activities of BUT's space programme.

The Rector's Office of BUT organised the Brno **Bioelectronics Meeting** on 9 September 2024. The event focused on connecting the Brno community of experts in biomedical engineering and bioelectronic devices and exploring opportunities for collaboration. The organisation was coordinated by Eric Daniel Glowacki, research group leader at CEITEC BUT, Martin Weiter, BUT Vice-Rector for Research and Knowledge Transfer, and the BUT Research Support Department.

The Czech Association of Art Historians organises the **Congress of Czech Art Historians** every three years in cooperation with host universities. Last year's eighth edition took place on 12–14 September in Brno, where the Department of Art History and Theory of the Faculty of Fine Arts BUT (FFA BUT) and the Department of Art History of the Faculty of Arts at Masaryk University shared the hosting.

Further development of cooperation between Brno University of Technology and Korean companies and institutions was confirmed by the **signing of three memoranda**, which took place on 20 September during the visit of the Korean delegation led by South Korean President Yoon Suk-yeol to the Czech Republic. The memoranda cover research in the field of thermal processes, development of battery technologies and expansion of existing cooperation in the nuclear field.

The Faculty of Mechanical Engineering BUT (FME BUT) has completed an extensive project of **interior reconstruction and modernisation**. The total investment of CZK 540 million was financially supported by MEYS with a grant of CZK 443 million, whilst the remaining funds were covered by the university from its own resources. Furthermore, the Faculty invested nearly CZK 70 million in expenses that were not covered by the grant. The works were carried out gradually since 2021, taking into account the operation of the premises, and were completed last year before the beginning of the academic year. Future engineers have thus been studying in the new premises since mid-September 2024.

Sparks in eyes and in the air. Last year's **Researchers' Night**, themed around transformation, attracted thousands of visitors to Brno University of Technology. All faculties and university institutes of BUT offered a unique programme, with a total of 7,082 enthusiasts of science, technology and art visiting during the Friday evening.

Through the **Creative Technology** project, which interconnects architecture, art, design and technology, Brno University of Technology presented its creative disciplines. It prepared an exhibition and accompanying programme for the public at KUMST in Brno.

BUT presented its latest university research and development results at the **65th International Engineering Fair**. It offered more than twenty exhibits from two faculties and one institute, featuring, for example, the AI.SCARA industrial robot, a process vessel for cleaning ocean surfaces, and the Volteek modular battery management system. Brno University of Technology stand also welcomed the President of the Czech Republic and the Prime Minister of the Czech Republic.

▲ Last year's theme of the **Czech Association of Research Managers and Administrators** (CZARMA) conference, co-organised by Brno University of Technology, focused on research managers and administrators as one of the supporting pillars for quality research. The conference took place on 2 October at the Faculty of Chemistry BUT (FCH BUT).

▲ For the fourth time, Brno University of Technology participated in the charitable event **"Cake for Hospice"**, which was held on Wednesday, 9 October. Students and employees of BUT managed the sale of sweet pastries at four stands and one mobile unit, where they successfully raised a total of CZK 105,388 for a good cause.

The **Advanced Chip Design and Research Centre** (ACDRC) opened on Friday, 18 October, at the premises of the Cyber Security Hub (CSH) in Brno. The centre was established as a specific initiative to develop relations between the Czech Republic and Taiwan. It represents one of the pillars of this cooperation in the semiconductor sector. On the Czech side, the project is implemented by experts from three leading Czech universities – Brno University of Technology, Czech Technical University in Prague and Masaryk University. The aim is to educate new experts and support innovation and research in the semiconductor industry, with applications in areas such as cybersecurity, automotive industry, energy sector, biomedicine and telecommunications.

Innovation, creativity and extraordinary ideas. Makers from BUT with their projects filled the Brno Exhibition Centre for the fifth time during the weekend of 19–20 October. DIY enthusiasts and their extraordinary technologies were also present. BUT showcased drones, robotics and 3D printing at **Maker Faire**.

Last year, Brno University of Technology participated for the first time as a partner and co-organiser in the largest space activities festival in the Czech Republic – **Czech Space Week**. Since 2018, events for both professionals and the general public, students, senior citizens and families with children have been taking place throughout the country every autumn. In addition to participating in the largest space festival, BUT hosted Space4Women, featuring successful women working in the space sector.

An **international evaluation of research, artistic and other creative activities, and doctoral studies** took place at Brno University of Technology. For this purpose, 54 experts from around the world convened at BUT to assess the quality, impact and diversity of research and artistic outcomes at individual faculties and university institutes of BUT.

▲ In November, the **US Ambassador** Bijan Sabet visited Brno University of Technology. The meeting focused on presenting university activities and cooperation between BUT and American institutions, followed by a discussion about possibilities for developing this cooperation. The programme included a presentation of student creative teams and a discussion concerning the need for STEM fields and innovation support.

The second **forum of rectors, vice-rectors and experts from universities of the Visegrad Four (V4) countries and the Republic of Korea** was jointly organised by Brno University of Technology and the South Korean university KEPCO International Nuclear Graduate School (KINGS). From 11 to 12 November, senior representatives and experts from universities in the Czech Republic, Slovakia, Hungary and Poland, together with their counterparts from universities in South Korea, shared their experience at the BUT Rector's Office. The forum was held in the spirit of human resource requirements for nuclear energy and emphasised the crucial importance of university technical and science studies (STEM) not only for the energy sector but also for the entire national economy of these countries.

As part of deepening international cooperation, representatives from 12 Taiwanese universities forming the **University Academic Alliance in Taiwan** (UAAT) visited Brno University of Technology on Friday, 8 November. The delegation consisted of 33 members. Memoranda of cooperation in the areas of education, research and student and faculty mobility were signed between BUT and National Sun Yat-sen University and National Taipei University of Technology. Friday's visit deepened the existing cooperation with a particular focus on semiconductor technology, in which Taiwanese universities, research organisations, and especially companies are world leaders.

To the frontier of the unknown and beyond. On 6 December, the Brno Exhibition Centre transformed into a cosmic scene where technology and space met on the dance floor. The largest ball in the Czech Republic, the **BUT Ball**, which was also the culmination of the university's 125th anniversary celebrations, attracted nearly 4,000 guests. An evening full of lighting effects, breathtaking design and futuristic motifs once again confirmed that Brno's technical university is not afraid of the frontiers of the unknown and, on the contrary, has ambitions to continue crossing them.

▲ Brno University of Technology welcomed the **Czech Minister of Transport**, Martin Kupka, on Friday, 13 December. The meeting took place at the Faculty of Mechanical Engineering BUT and offered a diverse programme focused on the transport industry. The programme included a showcase of student teams, university presentation and a debate on current topics related to the transport sector.

Achievements and Awards

Michal Urbánek and the CzechNanoLab team submitted an application last year in the OP JAC Research Infrastructures I grant call, in which the **CzechNanoLab+** modernisation project succeeded with an impressive score of 78 out of 80 points, becoming the most successful project within this call. The project was approved for funding without budget reduction and received CZK 361 million for equipment modernisation and innovation.

Miroslav Vořechovský from the Faculty of Civil Engineering BUT (FCE BUT), together with three other scientists from abroad, has been awarded the most prestigious scientific grant awarded by the ERC. As coordinator, together with colleagues from Germany and Austria, he will focus on fundamental concrete research – from the atomic level to large building structures, within the six-year **FATRESCON** project (acronym: FATigue RESistant CONcrete) with a grant of nearly EUR 10 million. The aim is to investigate the microscopic causes of concrete fatigue and its impact on the durability of concrete infrastructure, along with seeking a more environmentally friendly and sufficiently durable alternative to cement as a traditional binder.

On Tuesday, 30 January, the Brno City Council honoured personalities who significantly and positively influence various areas of public life and thus contribute to the city's good reputation. Among the 13 recipients were also three representatives from BUT. From the hands of Mayor Markéta Vaňková, the **Brno City Award** was presented to mathematician Josef Diblík (award for contribution to natural sciences), physicist Ilona Müllerová (award for contribution to technical sciences) and architect Marek Štěpán (award for contribution to architecture and urban planning).

▲ Nine doctoral students from Brno University of Technology succeeded in the 15th edition of **Brno Ph.D. Talent**. At the ceremonial evening held at the Brno City Hall, they received cheques for their further research in areas such as electron microscopy, digital medicine, and bioplastics production. Two scholarships were awarded to representatives from the CEITEC BUT research centre – Anna Kurowská and Marek Zálešák. Two further scholarships were received by doctoral students from FME BUT – Pavel Klok and Lukáš Zezulka. FIT BUT also received two awards, which went to – Tibor Kubík and Alexander Polok. Two additional scholarships were awarded to doctoral students from FCH BUT – Martin Súkeník and Katarína Šlosárová. The final recipient falls under FEEC BUT, doctoral student Enikö Vargová.

On the occasion of the 105th anniversary of the establishment of Masaryk University, **medals** were awarded on the last day of January **to distinguished members of the MU academic community** and other prominent representatives of science, culture, higher education and public life. Among the honoured personalities was also the current Rector of Brno University of Technology, Ladislav Janíček, who held numerous important positions at MU for many years.

At a ceremonial evening on 9 February at the Trade Fair Palace in Prague, the **Jindřich Chalupecký Society** presented its prestigious awards, and among the three laureates was a representative from Brno University of Technology. Judita Levitnerová impressed the jury with her exploration of textile creation and production, as well as the playfulness with which she installs her works. The other award recipients are Oskar Helcel and No Fun Kolektiv. The award has been presented since 1990. It is intended for emerging artists living or working in the Czech Republic.

In March, the **Werner von Siemens Awards** 2023 were ceremonially presented to the best students, young scientists and educators. Brno University of Technology has three laureates among the winners. Mathematician Miloslav Druckmüller was awarded as the best pedagogical staff member and doctoral student Marek Kollmann received an award for his thesis on Smart Infrastructure and Energy. Both work at FME BUT. Veronika Kamenská from FEEC BUT received an award for overcoming obstacles during her studies.

▲ The **BUT Student Entrepreneurship Award** has completed its fourth annual competition. Ten student projects competed for the top positions, from which the BUT Rector, based on the evaluation committee's recommendation, selected ideas with the greatest business potential. First and second place were awarded to the Volteek and Watee projects, which focus on energy-saving applications. The third and fourth place was shared between Duncal Technologies, which targets airsoft players, and MaNoSens, which develops an ecosystem for smart homes.

The Amper Trade Fair at the Brno Exhibition Centre is one of the most significant events in the field of energy and electrical engineering in Central Europe. At last year's event, FEEC BUT presented a novelty for power networks called Smartbox, which was developed in cooperation with the distribution company EG.D, a member of the E.ON group. The project also impressed the expert jury, which awarded it the **Golden Amper 2024** title as one of the most beneficial exhibits at the trade fair.

On 19 November, during a ceremonial evening, the Minister of Education, Youth and Sports Mikuláš Bek honoured two exceptional personalities from the Faculty of Mechanical Engineering BUT. Mathematician and educator Miloslav Druckmüller received an **award for outstanding educational activities** at the university. Physics Engineering graduate Michaela Hošková received an **award for outstanding students and graduates**.

Prior to last year's celebrations of the Day of Struggle for Freedom and Democracy and International Students' Day, the Josef, Marie and Zdeňka Hlávka Foundation awarded prizes to talented students under 33 years of age and the

Josef Hlávka Medal. This year's awards, accompanied by financial remuneration, were received at the château in Lužany near Přeštice by six students from Brno University of Technology – Ondřej Wojewoda (CEITEC BUT), Tomáš Janoušek (FME BUT), Jakub Koláček (FCH BUT), Nikola Musilová (FEEC BUT), Jan Raisinger (FCE BUT), Matej Greg (FEEC BUT). Professor Jan Maxmilián Honzík, a lecturer at FIT BUT, became the recipient of the Josef Hlávka Medal.

In the **QS World University Rankings by Subject 2024**, which evaluates educational institutions worldwide according to fields of study, BUT appeared in ten categories for the first time in history, ranking it among the best Czech representatives in the ranking. In previous rankings, BUT confirmed its quality particularly in architecture and materials sciences. This year, it repeated these successful placements and newly ranked in categories such as natural sciences and environmental sciences.

▲ On Wednesday, 24 April, the ceremonial announcement of the **Czech Event Association Annual Awards** for the best event projects implemented in the Czech Republic last year took place in the Křižík Pavilions at the Prague Exhibition Grounds. The BUT Ball, which received a shortlist nomination in two categories, won 2nd place in the Entertainment and Show Business category (public events and festivals) and placement in the TOP 5 of the B2P events category – for public relations support.

Martina Matějková, a student at FBM BUT, has become the **Junior European Champion in sport shooting**. In the Olympic trap event in Lonato, Italy, she defeated three Italian competitors in the final round, who consider this discipline almost their national sport.

President Petr Pavel appointed **new professors** based on proposals from scientific and artistic boards of universities. He personally presented the appointment decrees to them on Thursday, 13 June 2024 and Tuesday, 10 December 2024 at the Carolinum in Prague. Brno University of Technology has 11 new professors – Eric Daniel Głowacki (CEITEC BUT), Aamir Saeed Malik (FIT BUT), Jiří Pospíšil (FME BUT), Marek Zinecker (FBM BUT), and Marián Lehocký (FCH BUT), Jan Hajný (FEEC BUT), Zdeněk Jegla (FME BUT), Karel Katovský (FEEC BUT), Miroslav Kolíbal (FME BUT and CEITEC BUT), Pavel Rovnaník (FCE BUT) and Pavel Schmid (FCE BUT).

The **awards for the best book design** were announced on Wednesday, 12 June 2024, at the Technology Centre of the Academy of Arts, Architecture and Design in Prague. Two publications associated with FFA BUT succeeded in the Most Beautiful Czech Books of the Year competition, which has been organised by the Museum of Czech Literature together with the Ministry of Culture since 1965. The VUTIUM Publishing House also participated in the publication of one of them.

At the **Czech Academic Games**, held from 24 to 28 June in Liberec, BUT won 33 medals – 8 gold, 9 silver, and 16 bronze. The university sent 90 individual athletes to these games in swimming, finswimming, athletics, sport climbing, orienteering, fencing, judo, beach volleyball, table tennis, badminton, and 3 teams for collective competitions in volleyball, baseball and frisbee. Students from a total of 6 faculties of BUT (FME BUT, FEEC BUT, FCE BUT, FIT BUT, FCH BUT and FBM BUT) and from all three university institutes (Centre of Sports Activities BUT (CSA BUT), Institute of Forensic Engineering BUT (IFE BUT), CEITEC BUT) travelled to Liberec.

Ondřej Cejpek, a doctoral student from FME BUT, took second place in the **scientific competition of the French Institute in Prague**. He achieved success in the Make Our Planet Great Again (MOPGA) category, which selects the best doctoral theses in environmental and climate research. Ondřej Cejpek, who conducts CO2 capture research at the Energy Institute of FCE BUT, impressed with his work in the field of atomiser development.

▲ Jiří Jalůvka, a candidate from Brno University of Technology, became the **King of Brno Majáles**. Jiří is studying the Master's programme in Space Applications at FEEC BUT, and his enthusiasm and dedication are ideal qualities that a Majáles King should possess. He has excellent ideas and enjoys good company. He puts his all into everything he does. Therefore, he was a perfect choice for the role of the King of Brno Majáles Festival and the entire city of Brno.

Juraj Síč and Karel Beneš from FIT BUT achieved outstanding results in last year's **Joseph Fourier Prize**. This prestigious scientific award recognises Czech doctoral students for

their research work in computer science and informatics and supports them in their further scientific careers.

The best result of university volleyball at official competitions of the European University Sports Association (EUSA) or the International University Sports Federation (FISU) in the history of the Czech Republic. The volleyball team of BUT qualified for the **European University Games** thanks to their victory in the University Volleyball League 2022/2023 and achieved a remarkable feat. They placed an excellent second among 12 teams from across Europe.

▲ BUT commemorated its founding day on Thursday, 19 September 2024, with a **Ceremonial Academic Assembly** at the Music Scene of the Brno City Theatre. On this occasion, members of the academic community, BUT employees and other guests gathered at the theatre to look back at important moments in history and recognise the contribution of numerous personalities who contribute to building BUT's good reputation. During the Ceremonial Academic Assembly, the Rector of BUT awarded seven gold medals, nine silver medals, nine commemorative medals and one honorary recognition.

The YSpace student team from FEEC BUT, which focuses on developing technologies for space environment, has moved closer to implementing its CIMER mission. Following their October registration for the **Fly Your Satellite! Design Booster** programme, organised by the European Space Agency (ESA), they succeeded with their mission presentation before the expert committee and advanced to the shortlist of candidates for programme participation among university teams from across Europe.

The **Ji.hlava International Documentary Film Festival** announced its winning films. The best Czech experimental work was awarded to a film created by two doctoral students, Jiří Žák and Matěj Pavlík from FFA BUT.

The cooperation of members of the Centre for Electron and Photon Optics was recognised with the **Technology Agency of the Czech Republic** (TA CR) **Award**. The Centre for Electron and Photon Optics brings together all key academic and industrial players in the Czech Republic who are engaged in research and development in the field of electron and photon optics. The project team also includes scientists from CEITEC BUT, CEITEC MUNI and the Centre for Sensor, Information and Communication Systems (SIX) from FEEC BUT. The Centre was established on the basis of deep interconnection of cooperation between academic and industrial partners, which is often presented as difficult to implement. It was precisely this successful interconnection and very close cooperation between individual consortium members that led to the Centre becoming the winning project awarded the TA CR Award in the Partnership category.

Students from BUT participated in the 9th **World University Sport Shooting Championship** held in the Indian capital New Delhi and achieved excellent results. Jakub Kostelecký from FCE BUT had the most reason to celebrate, as he, together with Jan Palacký and Ondřej Šťastný, both from Mendel University, won the gold medal in the Trap discipline. Another notable personality representing BUT was Martina Matějková from FBM BUT, who is this year's European Champion and Team World Champion. Although she did not bring home a medal this time, her performance was admirable.

More than a thousand employers from across the Czech Republic participated again last year in the evaluation of domestic secondary schools and universities. The results of the **"School Recommended by Employers"** survey were announced by the Employers' Club on 18 November. FME BUT received the eponymous title for the eighth time, having secured the silver position among faculties last year.

▲ The **International Engineering Fair** (MSV) brought several successes to BUT. Among the six exhibits awarded **Gold Medals** by the expert committee at the International Engineering Fair, two involved BUT's participation These include electrochemical surface polishing of additively manufactured metal parts and a modular system for building cycle paths. The third Gold Medal with BUT's imprint was awarded to Professor Přemysl Janíček for his lifelong creative technical work.

In the third edition of the **QS World University Rankings: Sustainability 2025**, Brno University of Technology ranked 477th out of 1,743 published educational institutions. This places it among the top 27% of universities in the ranking. Out of twelve Czech representatives, BUT ranks fifth.

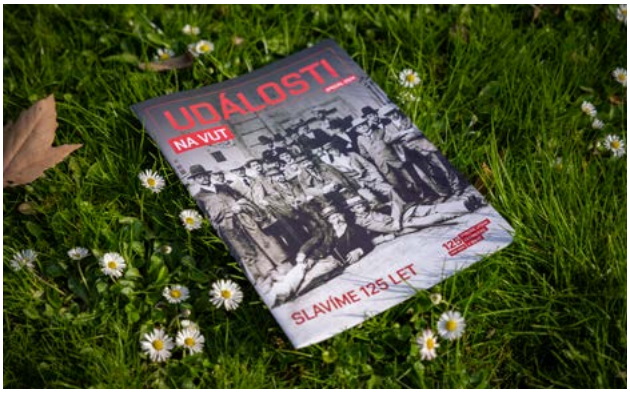
▲ Professors Shadia Rifai Habbal and Sabine Seidler have been holders of the **doctor honoris causa** title since 29 November 2024, which was awarded to them for their extraordinary contribution to science and education. BUT decided to honour them with this honorary degree on the occasion of celebrating its 125th anniversary. The award emphasised the role of women in scientific and technical fields.

Dominik Rabatin has become the winner of the 6th **Atlas Copco Services Award**, which recognises the best economic diploma theses created at domestic universities. The graduate of FBM BUT designed (under the supervision of Ing. Karel Doubravský, Ph.D.) a revolutionary prediction model that could save thousands of Czech patients from heart attacks.

The BUT team won the Czech round of the university **League of Legends** tournament. Students from Brno University of Technology scored in the e-sports tournament University Esports Masters. The university team played a total of fifteen games and fought their way through the semi-finals to the finals, where they emerged victorious, thus qualifying for the international league and securing the opportunity to compete for advancement to the grand finals in Madrid.

During the Advent season, a ceremonial presentation of emeritus professor certificates took place at the BUT Rector's Office. On this occasion, the Rector of BUT, Ladislav Janíček, thanked the **Professors Emeriti** for their lifelong contribution to the university's development and discussed their experience and memories with them. Through the indefinite-term decree, BUT expresses its respect to Professors Emeriti and gratitude for their contribution to building the university's prestige and legacy.

Jubilees



▲ As the oldest university in Brno, BUT commemorated **125 years since its establishment**. As part of the celebrations, the university carried out more than twenty events interconnected by a theme of fundamental importance for the future of the Czech Republic and the European Union. This theme is technical education and its key role in preparing future experts and leaders in technology and innovation. In addition to the events, which you can read more about in the entire Annual Report on Activities, a panel exhibition was prepared for the public during autumn, presenting the university's strategic areas, its scientific achievements and technologies of the future. The city of Brno was illuminated in red on the university's birthday, and throughout autumn, various popularisation events were held to demonstrate what excellent science looks like.

The Faculty of Civil Engineering BUT, as the **oldest faculty of BUT,** also celebrated its 125th anniversary since its establishment. BUT was established on 19 September 1899, when, by the supreme decision of His Majesty Emperor King Franz Joseph I, the Imperial and Royal Czech Technical University of Franz Joseph in Brno was founded. This marked the beginning of the history of FCE BUT and thus the entire university. The 125th anniversary, as a significant jubilee, became an opportunity for FCE BUT to hold celebrations that included numerous cultural and social events intended not only for the academic community, but also for the general public.

In addition to BUT itself and FCE BUT, the Faculty of Electrical Engineering and Communication BUT also celebrated its **65th anniversary**. Although the first electrical engineering subjects were taught as early as 1905, the independent faculty was not established until 1959.

The Faculty of Architecture BUT (FA BUT) also celebrated its significant **105th anniversary**. It was founded on 5 November 1919 and has become one of the most prominent institutions of architectural education in the Czech Republic. Today, FA BUT successfully combines art with modern technologies and continues the tradition of creative excellence.

1.3 BUT Science Centres

Central European Institute of Technology (CEITEC BUT)

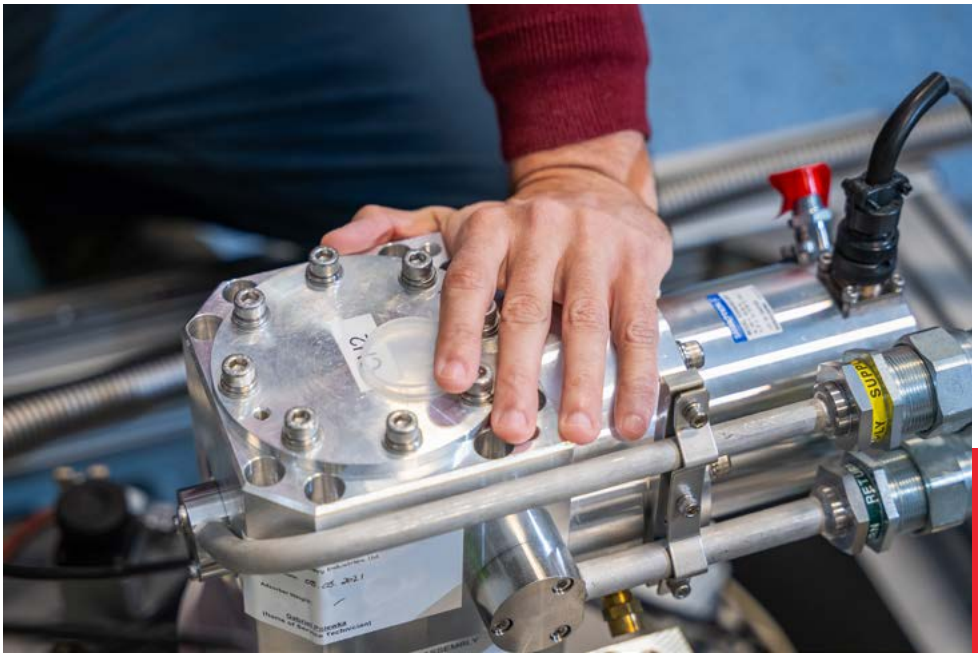
In 2024, CEITEC BUT managed to secure substantial support to expand its research capabilities through newly established partnerships with academic entities as well as industry and business partners, and also in the form of funding designated (but not limited to) extensive laboratory modernisation. CEITEC BUT also obtained several significant grants that should ensure development in the years to come. It gained public attention multiple times through various research areas, as well as through popularisation activities, to which CEITEC BUT, in accordance with its strategy of building the brand of a centre of scientific excellence, has long been paying due attention.

Dr. Michal Urbánek, the chief coordinator of the CzechNanoLab research infrastructure, succeeded within the OP JAC grant call – Research Infrastructures I. The CzechNanoLab+ modernisation project, with an impressive score of 78 points out of 80, became the most successful project within this call and was supported with CZK 361 million, of which two-thirds went to CEITEC Nano at CEITEC BUT in Brno and the remaining third to the Laboratory of Nanostructures and Nanomaterials (LNSM) at the Institute of Physics of the Czech Academy of Sciences (FZU), the second node of the CzechNanoLab research infrastructure. The project commenced on 1 January 2024 and is planned for 3 years. Within its scope, the acquisition of a total of 15 investment units is planned, ranging from deposition apparatus through state-of-the-art types of microscopes and analytical instruments to equipment for 3D printing at microscopic scale. This should enable CEITEC BUT to increase the scope of services provided by the infrastructure through the introduction of new promising technologies for nanofabrication and characterisation technologies and to renew obsolescent key equipment.

Since the opening of CEITEC Nano laboratories in 2016, under the leadership of Dr. Urbánek, a state-of-the-art facility for research in nanoscience and nanotechnology has been established, open to all research and development workers from both academic and private sectors. For the development of this significant Brno research infrastructure, Dr. Urbánek was awarded the Brno City Prize in 2024 for his extraordinary contribution in the field of technical sciences.

CEITEC BUT can boast considerable success in the area of projects. Particularly noteworthy is the highly prestigious grant under the EIC Pathfinder Open programme, which Edgar Montufar succeeded in obtaining last year. Out of 1,110 project proposals, 45 were selected, resulting in an overall success rate of only 4%. Edgar Montufar, as the sole Czech coordinator, will lead the ambitious international project BiCeps, which aims to create a new type of actuator through additive manufacturing that mimics natural muscle movement. The funding from the Pathfinder programme will enable the team to explore cutting-edge technologies in additive manufacturing and push the boundaries of current possibilities. The project is scheduled to commence on 1 March 2025.

On 13 June 2024, the CEITEC consortium hosted a scientific ERC conference at CEITEC MU followed by a meeting with ERC representatives at CEITEC BUT premises, combined with



a tour of the CEITEC Nano clean laboratories. The meeting with Maria Leptin, President of the ERC, was open to CEITEC BUT researchers and was also attended by BUT Rector Ladislav Janíček, ERC grant holders at CEITEC BUT Doc. Petr Neugebauer and Prof. Eric Głowacki, as well as current ERC Scientific Council member Alice Vinklárková. The meeting thus presented an opportunity to get to know one another, establish contacts, and also inspire future generations of scientists, to whom Maria Leptin patiently listened and encouraged not to be discouraged, as they too can achieve this "Holy Grail" in science.

The visually impressive research of the Laboratory of X-ray Micro and Nano-computed Tomography (known to industrial partners as CTLAB CEITEC) has repeatedly entered the Czech media landscape. The public was captivated by research led by Markéta Kaiser's team, which, in collaboration with an international team of biologists and the University of British Columbia (UBC), created a unique 3D atlas of developing human embryonic cartilage in the second trimester. The atlas was part of a study published in Nature Scientific Data. The acquired findings will find application in developmental biology, clinical research and prenatal diagnostics. In the future, the created 3D atlas could help improve prenatal examination of foetal morphology and potential therapeutic strategies.

For the second time, micro-CT methods entered public awareness through the publication of a unique 3D atlas capturing the metamorphosis of the Xenopus laevis frog using the micro-CT method. This frog serves as a key model organism in the field of developmental biology. The obtained 3D models enable the observation of changes between individual stages and analysis of differences, for example between males and females, whereby males tend to be approximately one-third smaller than females.

Exceptional media attention was given to Daniel Zich and his colleagues from the Central Laboratory of Biophotonics who are investigating whether any medicines approved for other purposes might have a side effect of slowing down or even stopping the spread of tumour cells. The problem with cancer is not only the tumour itself but particularly its spread in the form of metastases. The team of Daniel Zicha uses a holographic microscope for their research, which enables them to monitor the migration of these cells with high precision. This microscope was developed at CEITEC BUT under the leadership of Prof. Radim Chmelík in cooperation with Telight.

From a media perspective, the highlight of 2024 was the press conference held on 17 October to mark the ceremonial presentation of the electron spin resonance (ESR) spectrometer with a frequency of 329 GHz equipped with dynamic nuclear polarisation (DNP) functionality. This spectrometer features dual functionality. It can simultaneously measure both ESR and nuclear magnetic resonance (NMR) of liquids. This dual function is made possible by utilising the NMR spectrometer magnet, which simplifies the equipment and reduces the cost of the new system by eliminating the need for an additional separate magnet. The cutting-edge instrument was developed by a team led by Doc. Petr Neugebauer. The project was funded by an EXPRO grant from the Czech Science Foundation and should fundamentally help scientists understand protein structure and contribute to the design of new medications.

Scientists and researchers from CEITEC BUT can boast numerous awards, from awards presented by the Rector of BUT at the Academic Assembly commemorating BUT's 125th anniversary, of which CEITEC BUT students and staff received fifteen, to the prestigious Gold Medal of the Evaluation Committee Chair in the category of Excellence in Research and Development Cooperation between Academia and Industry at the International Engineering Fair (MSV) in Brno. The research team comprising Michaela Remešová, Lenka Klakurková and Vendula Bednaříková received this award for their significant contribution to the successful completion of a project focused on electrochemical polishing technology for additively manufactured parts made of 316SS and AlSi10Mg materials. The developed technology addresses existing limitations of additive manufacturing and has potential applications in numerous fields, from medicine to space applications.

Regular participation at MSV falls under another significant major area that has a firm place in CEITEC BUT's activities – science popularisation. CEITEC BUT actively participates in Brno and nationwide popularisation events such as Researchers' Night or Electron Microscopy Days, traditionally takes part in the Festival of Science and Technology and the aforementioned International Engineering Fair, and last but not least, organises summer schools.

In 2024, the traditional CEITEC Student Talent Summer School, organised for the fourth consecutive year, was joined by the Neural Engineering Summer School. Whilst the former focuses on third-year secondary school students who receive an opportunity to experience work on real scientific projects under the supervision of CEITEC BUT doctoral students and present their work results before an expert panel, the Neural Engineering Summer School targets students of bachelor's and master's degree programmes, introducing them to the increasingly popular field of neural engineering through thematically comprehensive workshops over the course of one week. Both events were selective, with the number of applicants significantly exceeding capacity, and thus in both cases, participants were selected based on motivation letters (and CVs in the case of neural engineering).

The end of the year at CEITEC BUT was marked by support for entrepreneurship and technology transfer. The CEITEC BUT management announced the traditional Technology Transfer Awards competition, where CEITEC BUT students and staff could present their business ideas through 3-minute pitch talks. An expert panel comprising CEITEC BUT and JIC management provided feedback and evaluated the best ideas, which received financial support. Additionally, participants had the opportunity to gain an overview of

entrepreneurship development opportunities offered by BUT (in cooperation with JIC). The next step in this direction is the CEITEC Innovation Accelerator programme. Through this programme, researchers can enter a virtual incubator for two years, during which CEITEC BUT provides research funding support, access to equipment and infrastructure, as well as educational and mentoring programmes arranged in cooperation with JIC. The researcher can thus fully immerse themselves in transforming a scientific discovery or idea into a spin-off company that is ready to enter the market at the end of the given period. Two projects applied for this programme last year and passed the evaluation by the expert committee. As of 1 January 2025, researchers Jiří Ehlich and Jiří Spousta Jr. will begin developing their business plans as the first two projects supported by the CEITEC Innovation Accelerator programme. Further information about the research centre is available on the website www.ceitec.eu/ceitec-but.

Centre of New Technologies for Mechanical Engineering (NETME Centre)

Cooperation with the traditional regional industrial base and a number of international collaborations in the field of applied and contractual research have long placed the NETME Centre at the forefront of engineering centres in the Czech Republic. The NETME Centre operates as a scientific research centre at FME BUT.

In 2024, the cooperation of FME BUT, including the NETME Centre, with industrial partners in the field of science and research reached a value of CZK 71.5 million (from non-public sources), of which the Centre's contractual research amounted to CZK 45.9 million. The Centre's research teams have managed to deepen their cooperation with long-term partners (e.g. ŠKODA AUTO a.s., ITW PRONOVIA, s.r.o., Garrett Motion, TŘINECKÉ ŽELEZÁRNY, a.s., L.K. Engineering, s.r.o., etc.), but also to establish new collaborations.

In the field of basic research, NETME Centre participated in 12 projects of the Czech Science Foundation (GA CR) in 2024. Research teams managed to succeed with 2 more standard and 1 international Lead Agency project of GA CR with the start of implementation in 2024. These projects form a significant share of the FME BUT basic research.

In the field of applied research, NETME Centre was also involved in 46 TA CR projects in 2024. NETME Centre teams were also involved in activities in a total of seven National Centres of Competence (NCC), two of which they coordinated (National Competence Centre of Mechatronics and Smart Technologies for Mechanical Engineering (NCC MESTEC), National Competence Centre for Aeronautics and Space (NCC NaCCaS)) and five of which they participated in as partners (NCC Mechanical Engineering, NCC Energy, NCC BOVENAC, NCC NAHYC, NCC CANUT). Research teams collaborated with companies on 26 projects supported by the Ministry of Industry and Trade. As in previous years, a number of collaborations in the field of contract and collaborative research took place.

In 2024, research by the now Ph.D. student Marek Kollmann achieved media success, receiving the Werner von Siemens Award for first place in the category of Best Graduate Thesis

dealing with technologies falling under the Infrastructure and Energy concept. In his work, he focused on the application of machine learning for short-term planning of combined heat and power generation in a central energy source, thus connecting several current issues, the use of operational data and artificial intelligence in practice, the search for alternative sources of electricity and heat, and generally improving energy systems.

The technology of electrochemical polishing of the surface of additively manufactured metal parts was also awarded the Gold Medal of the Chair of the Evaluation Committee at MSV 2024. Experts from CEITEC BUT and the NETME Centre worked on developing ONE3D technology.

During 2024, a total of 29 project applications were submitted for international cooperation projects. 10 projects were submitted to the Horizon Europe programme, 3 project applications to the Inter-Action USA programme, 2 project applications were submitted to the Inter-Action programme with Israel, 3 projects each to INTER-COST programmes, 2 projects each to the ERASMUS+ and Interreg SK programmes, and 1 project each to the ESA, Inter-COST, AKTION, Bridge2ERA, EUREKA, EURAMET and IRASme programmes.

The Interreg Central Europe project called Digital Skills Transformation Toolkit for a Resilient Labour Market (DiSTT), where the faculty serves as coordinator, successfully launched with a kick-off meeting at FME BUT in June. A total of 5 foreign partners are involved in the project. The aim is to expand and deepen the knowledge of various population groups in digital prototyping skills and strengthen the innovation ecosystem and labour market in Central Europe by supporting educational programmes in open workshops.

The "Digital Foundry Training Program" project funded by the ERASMUS+ programme, which commenced in December 2024, also registers successful approval. The aim of the project is to create a digital educational platform that will contribute to strengthening vocational education and training in the field of foundry engineering and increase students' interest in this industry.

The "Metrology to support zero pollution from industrial emissions" project has been successfully supported within the ERAMET – European Association of National Metrology Institutes programme. The project aims to update European standards for measuring pollutant concentrations, focusing on difficult-to-measure pollutants (heavy metals, polyfluoroalkyl substances, etc.). These pollutants are subject to progressive tightening of emission limits, which places increasingly higher demands on reliable and accurate measurement of their concentrations.

Among other successfully approved projects is the project entitled "MORE- Modernisation of Educational Programme for Sustainable Development in Energy", funded by the Interreg Slovakia programme. The project focuses on establishing new cooperation in education, research, graduate employability, increasing professional expertise and practical experience of graduates. The project primarily works with bachelor's, master's and doctoral students, teachers, and promotes cooperation with industrial enterprises.

The "ResElScale – Role of residual elements on steel scale behaviour" project is funded by the Horizon Europe programme, "Research Fund for Coal and Steel" sub-programme. The project contributes to the transition towards carbon-free steel production.

Further information about the research centre can be found on the website www.netme.cz.

Centre of Advanced Materials, Structures and Technologies (AdMaS)

The Research Centre AdMaS (Advanced Materials, Structures and Technologies) is a modern science centre and a comprehensive research institution in the field of civil engineering, which is part of FCE BUT. It focuses on research, development and applications of advanced building materials, as well as advanced structures and technologies. However, its scope extends beyond the field of construction, for example, in research focused on transport systems, infrastructure of cities and municipalities or the circular economy. In accordance with research objectives and established research technical capacity of the centre, individual interest groups conduct research projects co-financed by the Czech Science Foundation (GA CR) and Technology Agency of the Czech Republic (TA CR), projects under the Ministry of Education, Youth and Sports, Ministry of Industry and Trade, Ministry of Foreign Affairs and Ministry of Regional Development, and furthermore, direct contractual research with companies has been successfully implemented.

The AdMaS Centre actively prepares national and international research projects and continues to develop new research areas. Currently, the focus is on environmental issues, additive technologies, 3D printing and various forms of digitalisation. During its more than decade-long presence among scientific centres, the AdMaS Centre has gained numerous outstanding partners from many EU and non-European countries – Norway, Austria, Germany, Poland, Slovakia, Hungary, Italy, Greece, Balkan states and others.

In 2024, the key activities of research workers continued to focus on innovations in construction industry, particularly in improving existing technologies, materials and processes,

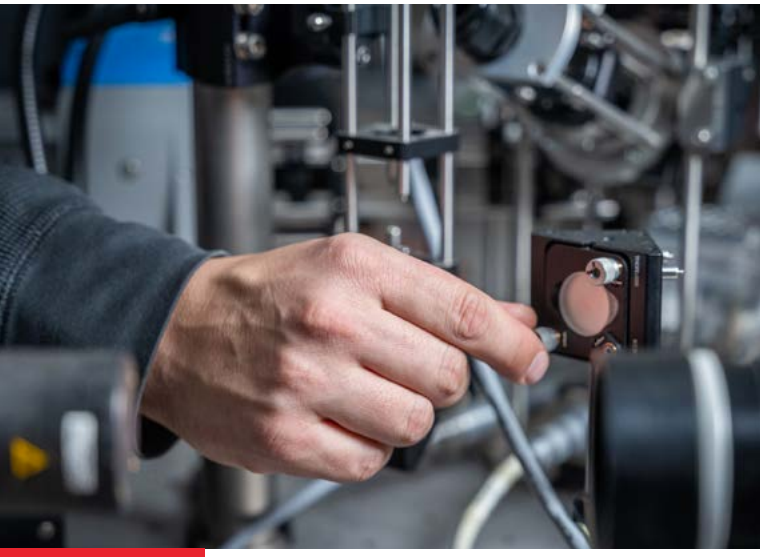
circular economy and water and waste recycling within the framework of urban green infrastructure. Thanks to the activity of all research workers of the AdMaS Centre, the research activity in 2024 continued with a similar volume of outputs as in previous years. During 2024, several international projects were also implemented at the AdMaS Centre.

In 2024, the two-year Czech-Austrian project entitled "Study of heat and moisture transport in the structure of materials based on natural and secondary fibres" was successfully completed, with Doc. Bydžovský as the principal investigator for BUT and Univ. Prof. Dipl.-Ing. Dr. Azra Korjenic as the principal investigator for Technische Universität Wien (TU Wien). In addition to achieving new findings and publication outputs, the project enabled more intensive establishment of contacts for further cooperation between the universities. In 2024, the implementation of the Interreg project – Environmentally Efficient Construction as a Tool for Climate Change Mitigation in the Cross-border Region" was also launched, where under the leadership of Prof. Drochytka, research activities are being carried out related to acquiring knowledge aimed at developing a more environmentally friendly construction strategy, together with other developmental, promotional and educational activities and creating strong cross-border ties.

Other international projects implemented within the AdMaS Centre laboratories include the Study of the hygroaccumulative effect of natural based materials and their influence on the moisture stability of the indoor environment of buildings, with Dr. Peterková as the principal investigator for BUT and Univ. Prof. Dipl.-Ing. Dr. Azra Korjenic as the principal investigator for TU Wien. The essence of the project supported by the Czech Science Foundation is to study the thermal-moisture behaviour of natural materials and the relationship between their composition, internal structure and sorption properties from the perspective of possible regulation of the indoor environment of buildings in connection with internal active green elements to achieve a stable and healthy microclimate.

Regarding international projects in the field of structures, particularly noteworthy is the research on bendable thermoplastic composite reinforcements for better durability and sustainability of concrete structures within project, which was implemented in an international consortium comprising Universitat Politècnica de Catalunya (coordinator), BUT, OHLA ŽS, a.s., Hormipresa NEC, S.L., Arkema France SA, Canoe and Sireg Geotech s.r.l. Load tests of the tested FRP samples in various configurations exposed not only to static but also fire loading were carried out in the AdMaS Centre laboratories. Among national projects, we can mention, for example, projects of the Technology Agency of the Czech Republic – Tunnel lining reinforced with composite materials with increased durability and resistance, – Sustainable production of composite materials 4.0 – Development of new types and compositions of composite materials with regard to efficient use of material resources with minimised environmental impact or – Injected composite rock anchors. Within the research activities carried out in these scientific-research (R&D) projects, not only material tests and load tests of partial elements were performed, but also degradation tests and fire tests.

In the environmental field, the implementation of the Technology Agency of the Czech Republic project entitled "Smart façade with optimised energy properties" continued at the Centre's premises. The project focuses on industrial research of building envelope systems with the aim of developing a comprehensive modern façade system called



Smart Façade, which will be optimised in terms of energy efficiency and environmental sustainability.

The Evaluation of significance of healthcare facilities' impact on municipal wastewater treatment plants' micropollutant load project has been initiated. This project is funded by the Environment for Life programme announced by the Technology Agency of the Czech Republic. The project aims to determine the impact of healthcare facilities on the overall micropollutant load in municipal wastewater treatment plants (WWTPs) and to assess the suitability of decentralised reduction of these substances at highly loaded healthcare sources. This project will be implemented in connection with the proposal for a Directive of the European Parliament and of the Council concerning urban wastewater treatment (2022/0345/COD), which stipulates the obligation to monitor and reduce micropollutant contamination at wastewater treatment plants from 2036 for WWTPs above 100,000 PE and from 2041 for WWTPs above 10,000 PE.

In the field of international cooperation, research activities continued the Validation testing of advanced oxidation processes for the removal of pharmaceuticals from WWTP effluent project. This is an international Czech Republic (CR) – Norway project funded by the State Environmental Fund of the Czech Republic and Norway Grants, Programme Environment, Ecosystems and Climate Change. The project aims to demonstrate the applicability of advanced oxidation processes based on ozonation in combination with nature-based solutions for the removal of selected types of pharmaceuticals and their metabolites from wastewater treatment plant effluents.

Within the framework of development cooperation projects, the Implementation of blue-green infrastructure elements into building green wall systems project was implemented under the Ministry of Foreign Affairs programme Strengthening the capacity of public universities in developing countries. The foreign implementing institution is the University of Banja Luka, Bosnia and Herzegovina. The benefit for pedagogical and scientific staff in Banja Luka lies in acquiring new technical know-how on the topic of blue-green infrastructure. A green wall/façade has been constructed, including a rainwater retention tank, which provides a comprehensive example of rainwater management and circular economy in terms of implementing biochar from organic waste into green wall substrates. Students will utilise the constructed experimental green wall for research within their bachelor's, master's, or doctoral theses. The constructed experimental polygon will serve as a demonstrative example within the teaching process whilst also being intended for presentation to the general public, as the university campus serves as a public park and arboretum.

Other activities included testing new design solutions and materials to optimise their performance and efficiency. One of the projects involved collaboration with ArchVegetal s.r.o., which focused on testing green roof compositions in the context of application in bio-solar roof systems, i.e. vegetation roofs fitted with photovoltaic panels. The aim was to define rules for optimal placement of panels and drainage and retention elements to ensure uniform water management.

Another significant project was the collaboration with Čegan, s.r.o., which focused on testing stabilisation and drainage systems for rainwater management. The main objective was to analyse the physical limits of their products, mechanical properties and efficiency for rainwater infiltration.

These projects contributed to the improvement of design procedures in the field of sustainable water management and efficient use of green roofs in combination with photovoltaic panels. The collaboration between the AdMaS Centre and industrial partners supported the development of new technologies and provided valuable outputs for innovative construction solutions. The main benefits of these projects include improvement of design standards for bio-solar roofs, optimisation of stabilisation and drainage systems, expansion of experimental methods in the field of construction materials testing and provision of basis for further research and development in the field of sustainable construction technologies.

In the past year, work has also begun on additional equipment for the 3D printing and robotics laboratory, which is part of the AdMaS Centre's research facilities. The aim of this initiative is to expand experimental and development capabilities in the field of additive manufacturing and automation of construction processes. The planned investments include modernisation of existing equipment, acquisition of new robotic systems and implementation of advanced software tools for simulation and optimisation of manufacturing processes. This modernisation will enable the implementation of more complex research projects in the field of advanced construction materials and technologies with emphasis on sustainability and efficiency.

In 2024, the AdMaS centre handled numerous contracts in the format of applied research through direct cooperation, as well as through innovation vouchers. The outputs

include expert opinions, testing reports, and conceptual documents, for example in the areas of hydrodynamic modelling of sewer networks and related monitoring of hydraulic parameters of sewer networks, application of materially transformed biochars obtained through the operation of their own medium-temperature and microwave pyrolysis, e.g. for building specific blue-green infrastructure of cities and municipalities according to the principles of circular economy and climate change mitigation, testing the efficiency of sewage sludge dryers, processing numerous concepts of effective sewage sludge management, concepts of automated equipment control with online transmission to the operator's control room for water supply system: raw water source, treatment and transport of drinking water, management of sewer networks and wastewater treatment plants. Within the framework of contractual research, the AdMaS centre cooperates with numerous renowned manufacturing and implementation companies. As an example, the following companies can be mentioned: OHLA ŽS a.s., A-Z PREZIP a.s., PBK Chrudim a.s., Form-Thermit, spol. s r.o., Prefa Brno a.s., Prefa Kompozity a.s., FIRESTA-Fišer, rekonstrukce, stavby a.s., KELLER – speciální zakládání, spol. s r.o, Kompan Czech Republic s.r.o., INFRAM a.s. Among the achieved applied results, it is also worth mentioning the utility model for Substrate for green walls and facades using material containing bio-component, which was developed in cooperation with T. G. Masaryk Water Research Institute, public research institution, and VSB Technical University of Ostrava.

Materials Research Centre (MRC)

The Materials Research Centre, which is part of FCH BUT, is a specialised research centre with a focus on applied research in inorganic materials, advanced organic materials, biomaterials and materials for smart technologies with an emphasis on their chemical aspects, properties and control. In recent years, MRC researchers have focused on sustainable technologies and materials, as well as processing and recycling procedures or other suitable utilisation of materials across all categories.

In addition to applied research and collaboration with industry, MRC has a strong base of basic research of its own, which is profiled in the areas described above and serves as inspiration and a springboard for potential applications in many scientific fields and disciplines.

The primary goal of the Materials Research Centre at FCH BUT is to develop collaboration between research at the University and the application sphere, industry. The link between MRC scientists and industry is mainly implemented in the form of contractual research, jointly solved projects with own and grant funding or various tailor-made training courses.

Very close cooperation between MRC and industrial partners results in a very effective transfer of knowledge from the laboratory to real practice Within the framework of cooperation with the industrial sector, MRC involves students of FCH BUT, of which it is a part, in research tasks that are solved in cooperation with industrial partners. More and more students are involved in such projects every year. Students thus gain an overview of the real needs of industry, which contributes greatly to the fulfilment of the mission of the technical university. Students maintain close contact with actual operations. They frequently become employees of the companies with which they collaborated during their studies.

In 2024, cooperation with industrial partners was developed in all research areas in which the individual MRC research laboratories are actively engaged.

As of 31 December 2024, 81 scientific and research workers were employed at MRC within research projects.

The volume of contractual research in 2024 reached nearly CZK 10 million, with 113 implemented contractual research assignments. This corresponds to an average amount of CZK 85,000 per order.

In 2024, 19 grant-funded research projects were implemented in cooperation with the application sphere, of which 16 projects were carried out within TA CR calls and 2 within the OP TAK programme, with a total financial volume exceeding CZK 20 million.

In 2024, MRC conducted 8 basic research projects supported by the Czech Science Foundation. In this year, the volume of financial resources allocated to GA CR projects reached nearly CZK 13 million. MRC further implemented 4 projects under the National Recovery Plan (NRP) totalling CZK 9 million, and one H2020 project.

In total, 34 projects with a total financial volume of CZK 46 million were implemented at MRC in 2024.

In 2024, scientists, researchers and other MRC employees actively participated in science popularisation events, such as the Brno Science Festival, which was held for the third time at the Brno Exhibition Centre and attracted more than 10,000 visitors. At this event, MRC performers are considered its veterans. MRC employees newly and successfully participated in the Pop Science festival organised by Brno's SC VIDA and the Planet Festival at the Brno Observatory, both events enjoying high attendance. Last but not least, MRC traditionally took active part in the Researchers' Night and popularisation events and collaborations with primary and secondary schools.

1.4 BUT Mission, Vision and Strategic Goals

Brno University of Technology is a modern research technical university with a full-spectrum profile of technical and natural science education combined with education in architecture, fine arts and design and complemented by economic-managerial education. As a member of the European university alliance, it is a registered European university which, through the number and support of international students, is building a profile of an international university. With awareness of the importance and necessity of graduates of technical fields and the results of research and development for the prosperity of industry and the national economy, it strives to develop technical education and promotes in its students the development of critical thinking, imagination, creativity, ability to creatively seek solutions, project thinking and a sense of responsibility, teamwork. It builds its competitive advantage on connecting education and research and technology with art. It strengthens traditional and establishes new strategic partnerships through which it develops academic and research cooperation with partner universities and strengthens cooperation with industry.

BUT Vision 2030

In the spirit of its mission, BUT builds its strategy on the vision of a modern, open and research technical university which, in close reflection of social needs, values and principles of democracy and humanity, builds its international competitiveness on the knowledge excellence, creative uniqueness and academic integrity of its staff, students and graduates, who through their abilities and achieved results effectively contribute to addressing global societal challenges.

It actively cares for the continuous professional and personal development of talents from among its employees and students, builds on cooperation with outstanding graduates and creates attractive conditions for acquiring gifted applicants for study, leading experts and talented candidates for academic and creative work at the university in teaching, research, artistic and other creative activities from the Czech Republic, Slovakia and abroad.

1. In the educational field , BUT strives to be a respected provider of quality and competitive university education, whose uniqueness is built, in addition to top expertise, on developing students' competencies in critical thinking, imagination, creativity, ability to find innovative solutions to problems and shaping their leadership qualities based on connecting research with teaching and synergy of technical, economic, managerial and artistic disciplines.

   BUT:

   a) perceives education and teaching as its primary mission,

   b) perceives and responds through the structure and content of studies to the educational needs of applicants for study, society, the national economy and employers,

   c) supports the competitiveness of its students and graduates by:

      – building on connecting teaching with research and technology with art,

      – developing critical thinking, creativity and entrepreneurship of students as a pivotal factor for the success of its graduates,

      – benefiting from the synergy of its technical, economic and artistic disciplines.

2. In the field of research, development, artistic and other creative activities, BUT wants to develop knowledge, acquire new knowledge, seek its practical application and bring innovative solutions fulfilling global societal challenges, establish itself internationally as a bearer of cutting-edge knowledge and originator of innovative solutions, and in cooperation with public and private partners contribute to building a national economy based on knowledge and innovation and strengthen its international competitiveness.

   BUT:

   a) builds its competitive advantage on high-quality internationally competitive research with the awareness that it is research that gives BUT its university dimension,

   b) develops close connection with the application sphere through applied and contractual research,

   c) appropriately utilises the synergy of technology and art in research and development,

   d) actively manages its own know-how and supports its effective transfer into practice.

3. In its societal role, BUT wants to be an independent, apolitical institution that will be a knowledge support for the public in regional, national and international contexts, which uses its technological potential to support societal and cultural priorities, security and technological solutions contributing to sustainability and quality of life on Earth.

BUT:

a) is a socially responsible institution that is an independent and apolitical knowledge support for its surroundings,

b) is an independent expert centre, technological partner and professional support for public institutions and the public in the fields of its knowledge competence,

c) cooperates with the regional and municipal authorities and co-creates the knowledge and socio-cultural character of the region.

4. In management and internal administration, it builds its competitive strategy on the potential, quality and motivation of its people, builds the integrity of the academic community as a unity of students and academic staff, supports synergy and cooperation of the academic community with non-academic staff, ensures compliance with ethical standards, maintains the principle of equal opportunities and strives for social security and ensuring safety in the internal environment.

BUT:

a) invests in continuous development, fairly rewards the quality and performance of its employees in teaching, research and other activities,

b) emphasises academic, scientific integrity and high moral and value credit of its employees and students,

c) strengthens the awareness of social responsibility of its students and employees and supports their participation in social and cultural events.

BUT Strategic Objectives for 2024

BUT has set its strategic objectives in its Strategic Plan for Educational and Creative Activities for the period from 2021+. Within the Implementation Plan of the Strategic Plan for 2024, BUT has defined these strategic objectives in accordance with the Implementation Plan of the Strategic Plan of the Ministry of Education, Youth and Sports for 2024.

1. Teaching and Education:

- Integration of study programmes and support for inter-faculty cooperation.
- Implementation of new rules for doctoral studies,
- Creation of a distance education and lifelong learning concept,
- Implementation of a pedagogical education system for academic staff,
- Implementation of a system for monitoring and evaluating the quality of educational activities,
- Strengthening the international status of BUT,
- Development of internationalisation.

2. Research, Development, Transfer, Artistic and Other creative activities:

- Development of standards and quality indicators for research, artistic and other creative activities,
- Support for involvement in the international research environment,
- Increasing the openness and transparency of research and artistic exploration,
- Support and development of artistic research,
- Support for the knowledge transfer system and intellectual property administration

3. Service to Society:

- Support for lifelong learning as an integral part of fulfilling social responsibility,
- Popularization of research, artistic and other creative activities,
- Development of cooperation with the South Moravian Region, municipalities, primary and secondary schools
- Development of platforms for communication with the public.

4. Governance and Institutional decision-making:

- Development of strategic partnerships with industry and the application sphere,
- Strengthening the competencies of responsible staff members in the field of strategic management,
- Linking the 125th anniversary celebrations of BUT with the promotion and support of science and technical education at both national and international levels,
- HR Award support,
- Support for the development of a sustainable university,
- Digitalisation of activities, establishment of qualified information support, utilisation of artificial intelligence tools.

1.5 Achieved Goals Within the BUT Strategic Plan for 2024

Priority Objective 1: Develop Competencies Directly Relevant to Life and Practice in the 21st Century

BUT has set a goal for 2024 to move towards greater integration of study programmes, which should enable students to achieve specialisation through specialisations or optional subjects. The establishment of new study programmes must be thoroughly justified by their uniqueness and necessity from the perspective of industrial practice. BUT responded to the priorities set out in two government strategies, in the development of which it participated: the National Semiconductor Strategy and the Economic Strategy of the Czech Republic: Czechia to Top 10. In 2024, BUT participated in the preparation of pilot contractual funding to support study programmes focused on training chip specialists.

BUT also focused on enhancing the pedagogical competencies of academic staff, for whom a series of courses was prepared, and a guideline is being developed that will systematically address the education of academic staff and doctoral students and the enhancement of their pedagogical skills.

Another area of focus was the quality of educational activities. In 2024, a basic framework for BUT's guideline on quality assurance in education was created, with the guideline expected to be approved during 2025.

Priority Objective 2: Improve the Availability and Relevance of Flexible Forms of Education at BUT

The area of further education and quality of educational activities was significantly strengthened in 2024 through the establishment of the position of Vice-Rector for Continuing Education and Quality. In 2024, the Guideline on Educational Modules and Lifelong Learning Programmes Documented by Micro-credentials was issued, establishing a framework for the approval and implementation of lifelong learning delivered through micro-credential modules or micro-degree programmes.

In 2024, BUT began offering a range of courses culminating in micro-credentials, such as the Photovoltaic Systems Design and Installation course at FEEC BUT, Advanced Machinery and Equipment Valuation at IFE BUT, and Small Business Financial Management at FBM BUT.

BUT also offers professional Master of Science (MSc) study programmes, catering to professionals from companies and organisations, as well as motivated individuals who need to deepen their knowledge, expand their qualifications or enhance their CV for further work in construction fields or in the increasingly important area of cyber security. This represents a complement and extension to traditional higher education through new, flexible and accessible forms that are recognisable across the EU. In 2024, BUT offered the Master of Science in Civil Engineering and Master of Science in Environmental Engineering programmes at FCE BUT and Master of Science in Cybersecurity (proCyber) at FEEC BUT.

Teaching in these programmes is delivered in a modular format through a hybrid approach, combining direct face-to-face instruction, e-learning, self-study and individual consultations. An additional value of these programmes lies in micro-certificates that can be obtained upon completion of individual educational modules.

Priority Objective 3: Improve the Efficiency and Quality of Doctoral Studies at BUT

In 2024, discussions continued at BUT regarding the approved amendment to the Higher Education Act, which is to affect doctoral studies, particularly through the statutory minimum scholarship or guaranteed doctoral income. BUT began preparing rules for doctoral study income. In addition to financial support, increased attention should be paid to other qualitative aspects of doctoral programmes and measures to prevent early termination of studies. BUT adopted the Supervisor Standard, which defines the position of the supervisor and their obligations towards doctoral students. To strengthen internationalisation, efforts are being made to introduce a blanket requirement to write doctoral theses in English. Attention was also paid to industrial doctorates, which, given BUT's focus, are a suitable way of linking scientific activities with cooperation in the application sphere. In 2024, the Guideline on Industrial Doctorates at BUT was completed and issued, regulating its terms and conditions and BUT's cooperation with external entities, protection of intellectual property created by students, and the publication of doctoral theses.

Priority Objective 4: Strengthen Strategic Management and the Effective Use of Capacities in Research and Development at BUT

Through its representatives, BUT actively participated in the preparation of higher education institutions' evaluation as research organisations according to Methodology 17+/25+, the development of its concept, evaluation method and final assessment of international evaluation panels' results. In 2024, BUT underwent an evaluation of science, other creative activities and doctoral studies, involving 45 renowned international experts under the coordination of the BUT International Advisory Scientific Board, established in 2024. The evaluation was conducted across all BUT units, which prepared self-evaluation reports, followed by on-site visits to each unit in November, including interviews with management and other members of the evaluated units, including doctoral students. The main purpose of the evaluation was to obtain feedback on research activities conducted at BUT, both at the level of individual evaluated units and at the level of faculties, university institutes and the entire university. The evaluation output consists of evaluation reports containing feedback and recommendations for each evaluated unit, BUT unit and the entire university. This evaluation will be used to prepare for the assessment according to Methodology 17+/25+ in 2025, which BUT considers crucial for the evaluation and funding of higher education institutions in the subsequent period.

In 2024, the processes and tools for recording results and outputs of BUT's research, artistic and other creative activities were optimised, and the principles of the Agreement on Reforming Research Assessment were implemented.

Priority Objective 5: Build Capacity for the Strategic Management of BUT

In 2024, BUT Career Rules were approved, which, particularly in accordance with BUT Strategic Plan, BUT Personnel Strategy and BUT Code of Conduct, regulate the status of employees, focus on supporting their career development with the aim of continuously improving the quality of educational, creative and other related activities and creating a stable, fair and transparent environment for all employees. The principle on which these Career Rules are based is the consistent application of equal opportunities, the removal of all barriers that limit equal opportunities, and the creation of conditions supporting work-life balance. The Gender Equality Plan for 2025–2028 has been updated to ensure equal opportunities and a non-discriminatory environment at BUT.

In 2024, BUT approved the BUT Sustainability Strategy. Sustainability is a key pillar of the university's strategic direction, and the BUT Sustainability Strategy presents a comprehensive framework that integrates sustainability principles into all aspects of BUT's activities. Through this Strategy, BUT commits to systematically fulfilling the sustainable development goals of the EU and UN.

Priority Objective 6: Reduce the Administrative Burden on the BUT Staff So That They Can Fully Pursue Their Mission

In 2024, BUT focused particularly on supporting and developing the digitalisation of economic, personnel, academic and other agendas. For this purpose, the implementation of the Management Information System project was initiated. The service catalogue is being continuously updated and a public tender has been announced for the procurement of a new Service Desk tool. A major challenge was the utilisation of generative artificial intelligence (AI); BUT has secured licences for relevant AI tools to facilitate the performance of agenda items and has prepared an analysis of the possibilities for AI tools deployment.

The Building Management System and Measurement and Control System upgrade for intelligent building and asset management has been completed.

BUT has gradually implemented compliance system mechanisms for individual types of operations and preventive measures to prevent fraudulent conduct.

In the field of study agenda, attention was paid to the unification of methodological procedures between faculties and university institutes of BUT. Within the BUT Information System (IS BUT), the transition to Teacher has been completed.

BUT had to respond to global changes in Google and Microsoft's strategy regarding cloud storage services and proceed with building its own cloud capacities.

1.6 Activities of the BUT Academic Senate

The BUT Academic Senate (AS BUT) held ten regular sessions and one off-site session in 2024. All AS BUT sessions in 2024 were held in person, regularly at four-week intervals. The AS BUT sessions were complemented by meetings of the Senate's working committees – economic, legislative, creative development and educational committees, which discussed relevant documents, commented on them and adopted resolutions or recommendations on the submitted proposals. At the outset, it should be noted that in 2024, the term of office of the previous AS BUT ended in June, and following elections held in April, the AS BUT assumed office for the new term.

At its first January meeting in 2024, the AS BUT primarily addressed matters related to significant changes in AS BUT personnel, concerning the resignation of the AS BUT Chair, Doc. Dr. Ing. Petr Hanáček, who was elected Dean of FIT BUT in the elections held at FIT BUT in autumn 2023 and was appointed to this position by the BUT Rector, Doc. Ing. Ladislav Janíček, Ph.D., effective mid-January 2024. Due to the incompatibility of the Dean's position with membership in the AS BUT, Doc. Hanáček had to resign from his position in the AS BUT. Doc. Dr. Ing. Dušan Kolář, who was elected as an alternate in the FIT BUT elections held in November 2020, assumed the position of AS BUT member for FIT BUT in his place. Furthermore, due to the incompatibility of positions, Doc. Ing. Vlasta Sedláková, Ph.D., an AS BUT member for FEEC BUT, resigned after being appointed Vice-Rector of BUT by the Rector, and Ing. Stanislav Klusáček, Ph.D., who had been elected as an alternate in the regular FEEC BUT elections in November 2020, assumed her position in the AS BUT. In place of the FIT BUT student representative Lukáš Brázdil, who also resigned from his position, Bc. Samuel Olekšák, elected in the supplementary elections at FIT BUT held in early January 2024, assumed the position of the member of the AS BUT Chamber of Students (CS AS BUT). All new AS BUT members took the AS BUT Member's Oath at the AS BUT meeting in January and received their Certificate of Election. With respect to the fact that Doc. Hanáček informed about his election as FIT BUT Dean at the AS BUT meeting in December 2023, the AS BUT announced the election of a new AS BUT Chair at its December meeting, which could then take place at the AS BUT meeting in January. Doc. Ing. Miloslav Steinbauer, Ph.D. was elected as the new Chair until the end of the AS BUT term, i.e. until 15 June 2024, and subsequently announced elections to the AS BUT for the new term from June 2024 to June 2027. At the AS BUT meeting in February, he first appointed Prof. Ing. Jiří Vala, CSc. as Chair of the Election Committee for the AS BUT elections for the term June 2024 to June 2027 and simultaneously published the composition of this election committee. Furthermore, the AS BUT appointed the Election Committee for faculties and university institutes of BUT and subsequently approved the Organisational Guidelines for the preparation and conduct of elections of representatives of faculties and university institutes of BUT to the AS BUT. Elections at all units of BUT were held from 23 to 25 April 2024.

As in every year, the BUT Academic Senate discussed and approved all proposals pursuant to the Higher Education Act submitted by the BUT Rector – the Annual Report on Activities and the Annual Financial Statement of BUT for the previous year 2023, furthermore discussed and approved the Budget Compilation Rules and subsequently the BUT Budget for 2024. Throughout the year, the AS BUT particularly discussed the Rector's proposals for additions to the BUT Scientific Board and the BUT Internal Evaluation Board. All AS BUT sessions, except for the AS BUT off-site session, included information from the BUT management level, the Council of Higher Education Institutions, and the CS AS BUT.

The AS BUT Economic Committee (EC AS BUT) held most of its meetings in person; in cases where multiple EC AS BUT members could not attend in person, several meetings were conducted online via MS Teams. Other AS BUT working committees discussed submitted proposals and adopted their resolutions mostly per rollam; all working committees then met in person during the AS BUT off-site session. The EC AS BUT regularly discussed property issues and strategic topics with economic implications. Due to the urgent need to approve the BUT Budget for 2024, the AS BUT approved at its April session an inserted AS BUT meeting, which took place on 7 May 2024. Prior to this senate meeting, the AS BUT discussed and recommended the final version of the budget proposal with the latest AS modifications for approval, and the budget was approved at the subsequent AS BUT session following the EC AS BUT meeting. Furthermore, in 2024, the EC AS BUT recommended to the AS BUT for approval particularly Amendment No. 2 to the BUT Wage Rules – this discussion took place during the AS BUT off-site session.

The AS BUT Legislative Committee (LC AS BUT) dealt with legislative proposals concerning mainly changes to BUT internal regulations, as well as internal regulations of faculties and university institutes. At the beginning of the year, the LC AS BUT discussed the new wording of the Election Rules of the AS FCH BUT. Furthermore, the LC AS BUT particularly addressed the proposed changes to the Statute of BUT, which was submitted by the BUT Rector after more than a year of collecting documentation for its text, and therefore in a completely new wording. With respect to the fact that the Statute of BUT is a fundamental internal regulation of the university, the LC AS BUT discussed this proposal at its two in-person meetings held in April. During these meetings, the LC AS BUT particularly discussed the change concerning the balance of powers between the executive bodies (Rector, Deans) and senates (AS BUT as well as Academic Senates of BUT faculties) within the organisational rules, where the Rector proposed the current amendment to Article 28 of the Statute of BUT to exempt the organisational rules of other BUT units from the approval process by the AS BUT. In this context, a discussion was held regarding the established existence of the AS BUT Office in the BUT Rector's Office Organisational Rules. Following an agreement

with the AS BUT Chair, Doc. Steinbauer, the LC AS BUT Chair, Mgr. Musilová, presented a proposal to include the AS BUT Office in the Statute of BUT – see the proposed amendment to Article 7(8): "The BUT Rector's Office shall provide administrative and material support to the AS BUT through the AS BUT Office". The BUT Rector accepted most of the changes proposed by the LC AS BUT, and the new wording of the Statute of BUT was approved by the AS BUT at the last meeting of the preceding AS BUT, i.e. at its May meeting.

The AS BUT Creative Development Committee (CDC AS BUT) dealt with the development and evaluation of creative activities at the university in all its forms (scientific, research, development, artistic and other related activities) and also focused on internationalisation. The CDC actively participated in discussions on the evaluation of scientific and research activities. The Committee deliberated on the Excellence Support Fund. Besides scientific activities, the CDC dealt with artistic outcomes registered in the Register of Artistic Outcomes (RAO) and Artistic Activity Fund (AAF). The Committee participated in revising the rules for the distribution of Institutional Support for Long-Term Conceptual Development of Research Organisation. The CDC AS BUT also dealt with the rules of internal competition announced within the framework of the so-called Specific Research. Furthermore, it was involved in reviewing the university's strategic documents in the field of science and discussed the appointments to the BUT Scientific Board and the BUT Internal Evaluation Board.

The AS BUT Education Committee (EdC AS BUT) discussed proposals for documents related to study matters – i.e., particularly the rules for admission procedures and conditions for admission to study at BUT university institutes and reports on the quality evaluation of teaching in relevant study programmes at university institutes of BUT submitted to the AS BUT by the BUT Rector. The Committee further dealt with the issue of so-called free subjects at BUT and matters related to subject evaluation.

In connection with the activities of the EC AS BUT and LC AS BUT, it is appropriate to mention the active involvement of AS BUT members representing BUT in the Council of Higher Education Institutions. These BUT representatives continued to work primarily in the areas of strategic development of higher education institutions (RNDr. Popela is Chair of the Council of Higher Education Institutions Committee for Strategy and Development in Higher Education), in the Council of Higher Education Institutions Committee for Art Universities (chaired by Ing. arch. Galeová), the Council of Higher Education Institutions Economic Committee, the Council of Higher Education Institutions Legislative Committee (of which Mgr. Musilová is a member) and in the Council of Higher Education Institutions Committee for Scientific Activities (of which Doc. Opravil is a member). Also thanks to the long-standing prestige of BUT built on the ground of the Council of Higher Education Institutions, it was again possible to involve important representatives of the Council of Higher Education Institutions in the deliberations of the AS BUT off-site session and to give it a thematically supra-university overlap with the participation of the President of the Council of Higher Education Institutions Prof. Kašparovský. BUT representatives in the Council of Higher Education Institutions consistently presented suggestions from the BUT academic community for discussion in the bodies of the Council of Higher Education Institutions and regularly informed the university's academic community through the AS BUT and Academic Senates of BUT faculties.

On 18 June 2024, the constituent meeting of the newly elected AS BUT was held, during which the election of the new Senate leadership took place. Doc. Ing. Miloslav Steinbauer, Ph.D. was re-elected as new AS BUT Chair, Doc. Ing. Tomáš Opravil, Ph.D. was elected as Chair of the AS BUT Chamber of Academic Staff (CAS AS BUT) and simultaneously as AS BUT Vice-Chair, and Ing. Daniel Janík was elected as Chair of the AS BUT Chamber of Students and AS BUT Vice-Chair. Ing. Martin Očko was elected as Vice-Chair of the AS BUT Chamber of Students. At this meeting, the permanent working committees of the AS BUT were also established, including the election of their chairs and vice-chairs. At the conclusion of the meeting, AS BUT Chair Doc. Steinbauer informed the new AS BUT members about the off-site AS BUT meeting, which, due to the timing of the constituent meeting of the newly elected AS BUT, was held after the summer holidays from 10 to 12 September 2024.

The 2024 off-site AS BUT meeting was held in Znojmo, with the detailed agenda of the off-site AS BUT meeting being prepared during the summer holidays. The aim of the off-site meeting was to discuss, with the participation of BUT management and representatives of the Council of Higher Education Institutions, significant and current topics that the AS BUT did not have time to discuss during the year due to time constraints. The off-site AS BUT meeting was attended by BUT management representatives including Rector Ladislav Janíček together with Vice-Rectors Miroslav Doupovec, Martin Weiter, Vítězslav Máša, Iveta Šimberová and Vlasta Sedláková, Bursar Daniela Němcová and Chancellor Kamil Gregorek, who presented interesting information from areas falling within the competence of university management. Of key importance at the off-site meeting was particularly the presentation by Rector Ladislav Janíček, who once again provided the AS BUT with detailed information about the university's strategic intentions and further informed about the current complex situation in higher education funding, specifically addressing the issue of financial resources provided to universities by MEYS in the form of so-called cohesion. The use of these funds for, among other things, special projects (FA BUT and FCE BUT), which was presented to the AS BUT in the form of Rector's Resolution No. 8/2024 Rules for the Use of Funds to Support Wage Cohesion at BUT in Brno, was then discussed in detail at the EC AS BUT meeting during the AS BUT off-site meeting. Furthermore, presentations by BUT management members took place, followed by discussions between AS BUT members and BUT management concerning the areas of economics, science and research, and internationalisation.

Last but not least, it is necessary to mention the standard AS BUT meeting, during which, in connection with the approval of the draft Amendment No. 2 to the BUT Wage Rules concerning the increase in tariff wages, there was a discussion of Rector's Resolution No. 8/2024 – Rules for the Use of Funds to Support Wage Cohesion at BUT, as well as the BUT Consolidated Budget 2024 and Medium-Term Outlook for 2025. These documents were discussed by the EC AS BUT during the AS BUT off-site meeting without any comments and were recommended to the AS BUT for approval. Furthermore, the AS BUT discussed and approved the Rector's proposal to supplement the BUT Scientific Board, which was discussed by the CDC AS BUT during the off-site meeting without any comments. The CDC AS BUT also discussed the proposal to establish the BUT Research Excellence Support Fund, which was submitted by Vice-Rector Weiter on behalf of the BUT Rector with reference to the BUT Budget Rules (see Article 13(5) Rules of the Excellence Support Fund shall be defined in a separate document discussed by the AS BUT). The comments of the CDC AS BUT were accepted by the BUT Rector and incorporated into the document during the AS BUT off-site meeting, and at its meeting on 12 September 2024, the AS BUT approved the amended version of Rector's Resolution No. 9/2024 BUT Research Excellence Support Fund.

A significant contribution to the participation of BUT representatives in the Council of Higher Education Institutions, who are also members of the AS BUT, at the off-site AS BUT meeting was particularly the representative attendance of guests from the Council of Higher Education Institutions who, despite their workload, actively participated in the off-site meeting and through their presentation informed AS BUT members about current developments in the Council of Higher Education Institutions. The meeting was attended in person by the Chair of the Council of Higher Education Institutions Prof Tomáš Kašparovský, the Chair of the Council of Higher Education Institutions Legislative Committee JUDr Marek Hodulík, and remotely by the Chair of the Council of Higher Education Institutions Economic Committee Doc. Irena Benešová and the Chair of the Council of Higher Education Institutions Scientific Committee Doc. Vlasta Radová.

The off-site meeting again proved to be very beneficial for mutual awareness among representatives of the academic community in the AS BUT, the BUT management and invited guests. The off-site meeting also included a standard AS BUT meeting at which the relevant resolutions were adopted in relation to the areas discussed and the proposals submitted to the AS BUT for consideration.

At the end of 2024, the AS BUT discussed and approved particularly the new composition of the BUT Disciplinary Committee, property matters, the new wording of the FEEC BUT Statute, rules for admission procedures and teaching evaluation at BUT university institutes and addressed issues of certain BUT faculties in connection with cohesion funding.

Chamber of Students of the BUT Academic Senate

The AS BUT Chamber of Students (CS AS BUT) listened to the voices of the student part of the academic community throughout the year, defended their interests and acted as their representative. It organised regular monthly meetings with representatives of faculty chambers of students, student creative teams and associations to share experience and mutual support. At the beginning of the year, the rules of the Internal Student Support Fund were updated, which annually recognises the activity and interest of students in contributing to the BUT academic community through their extracurricular activities. As part of the adaptation of newly incoming first-year students, the Chamber of Students annually updates and publishes the BUT Freshman's Guide, which aims to guide new students through the academic environment and the beginnings of university studies.

During the spring months, representatives of the CS AS BUT participated in the preparation and coordination of BUT activities at the Brno Majáles festival, with students being represented particularly by Lenka Bížová from FCH BUT and Jiří Jalůvka from FEEC BUT, who won the title of King of Brno Majáles. As part of supporting active students, the CS AS BUT awarded 14 proposals in the first round through the Internal Student Support Fund (for example, the BSEC competition, the humorous sporting event Run on 53, the Bohuslav Fuchs Award, socialisation and leisure activities for FIT BUT students). In the second round of the Internal Student Support Fund, the CS AS BUT awarded 12 proposals (including Mechanical Engineering Stairs 2024, Music from FEEC, Start @FIT, Night at FIT, Educational presentation Spacebeer).

Before the start of the summer semester, CS AS BUT representatives participated in the Pre-school event for newly enrolled first-year students, where they presented the activities and initiatives of the CS AS BUT.

At the end of October, the CS AS BUT continued its established tradition and organised Ph.D. Day for doctoral students, which covered several sections including project opportunities for young scientists, social security and wellbeing, amendments to the Higher Education Act, international cooperation and mobility. On International Students' Day, 17 November, the CS AS BUT commemorated 35 years of freedom and democracy during memorial ceremonies for the events of 1939 and 1989. In Brno, CS AS BUT representatives, together with student representatives from other Brno universities, laid wreaths at the plague column in náměstí Svobody as part of the Brno Seventeenth event. In Prague, CS AS BUT representatives commemorated the November events at Hlávka Dormitory, with a march and memorial ceremony in Žitná Street and at a commemorative event at Vyšehrad.

During the year, the term of office of the incumbent AS BUT, including its Chamber of Students, ended, and from June 2024, the CS AS BUT began working in its new composition. As the change in the Chamber's composition was considerable, several meetings between the outgoing and incoming CS AS BUT were held to facilitate better sharing of experience. At the same time, during the year, the representation of BUT in the Student Chamber of the Council of Higher Education Institutions changed.

Throughout the year, the CS AS BUT cooperated with the Student Chamber of the Council of Higher Education Institutions particularly through its representatives in the Student Chamber of the Council of Higher Education Institutions. In December, BUT hosted an off-site meeting of the Student Chamber of the Council of Higher Education Institutions, where the election of the new leadership of the Student Chamber of the Council of Higher Education Institutions took place. At the end of the year, the CS AS BUT supported the organisation of the BUT Ball, this time themed "When Technology Dances on the Edge of the Unknown", which symbolically concluded the year of BUT's 125th anniversary celebrations.

Among the main priorities of the CS AS BUT were, and will continue to be, matters of physical and social security, mental health, wellbeing and support of student life.

2 Basic Information About the University

2.1 The Full Name of the University, the Commonly Used Abbreviation, the Seat of the University and All Units

Brno University of Technology
BUT
Antonínská 548/1, 601 90 Brno
www.vut.cz

Faculties (Sorted by Establishment)

Faculty of Civil Engineering BUT
FCE
Veveří 331/95, 602 00 Brno
www.fce.vutbr.cz

Faculty of Mechanical Engineering BUT
FME
Technická 2896/2, 616 69 Brno
www.fme.vutbr.cz

Faculty of Electrical Engineering and Communication BUT
FEEC
Technická 3058/10, 616 00 Brno
www.fekt.vut.cz

Faculty of Architecture BUT
FA
Poříčí 237/5, 639 00 Brno
www.fa.vutbr.cz

Faculty of Chemistry BUT
FCH
Purkyňova 464/118, 612 00 Brno
www.fch.vut.cz

Faculty of Business and Management BUT
FBM
Kolejní 2906/4, 612 00 Brno
www.fbm.vutbr.cz

Faculty of Fine Arts BUT
FFA
Údolní 244/53, 602 00 Brno
www.favu.vut.cz

Faculty of Information Technology BUT
FIT
Božetěchova 1/2, 612 66 Brno
www.fit.vut.cz

University Institutes

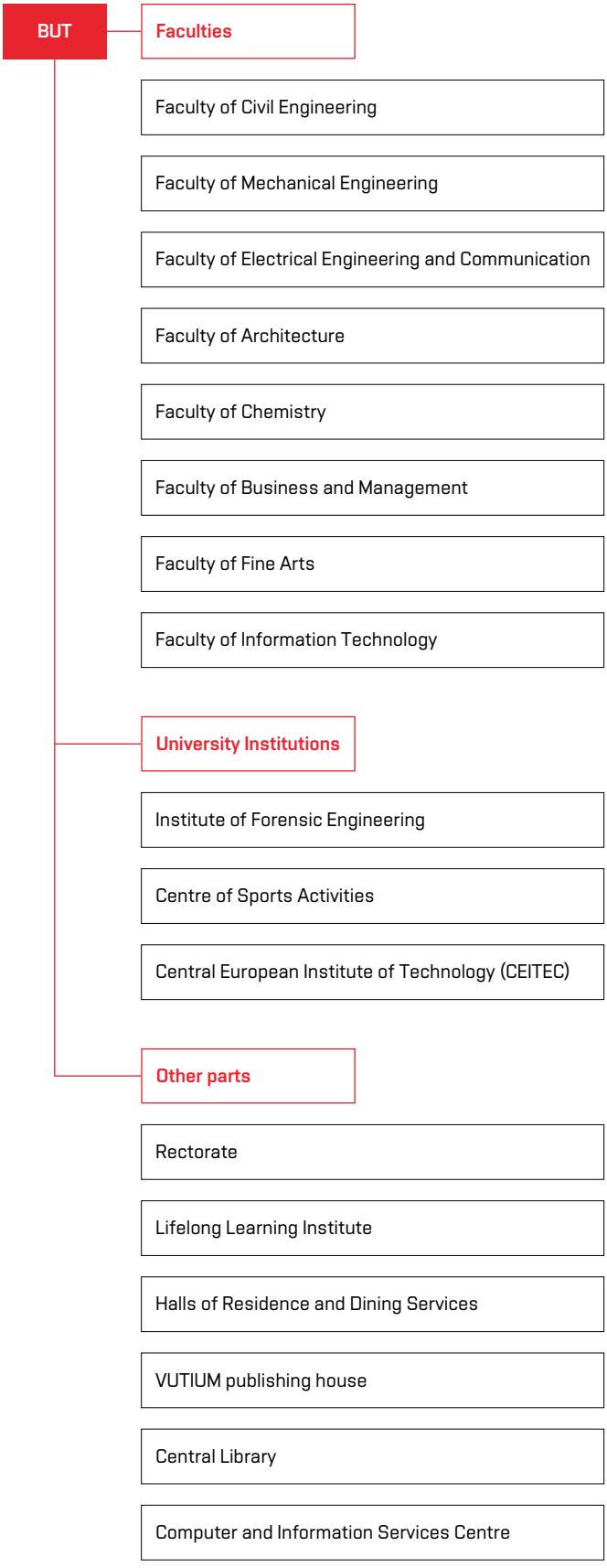
Institute of Forensic Engineering BUT
IFE
Purkyňova 464/118, 612 00 Brno
www.usi.vutbr.cz

Centre of Sports Activities BUT
CESA
Technická 2896/2, 616 69 Brno
www.cesa.vutbr.cz

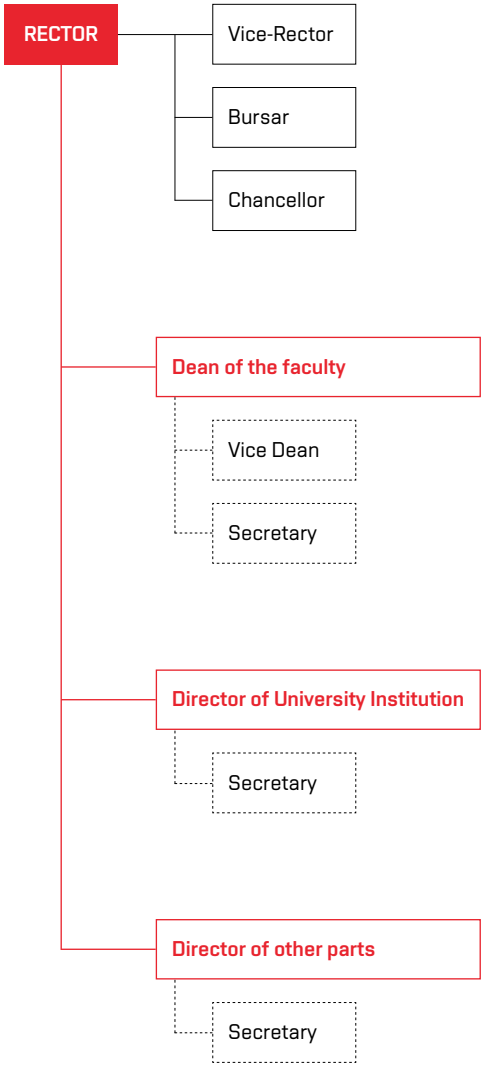
Central European Institute of Technology BUT
CEITEC
Purkyňova 656/123, 612 00 Brno
www.ceitec.cz

2.2 University Organisation Chart

Organizational chart of BUT



Management structure of BUT



2.3 Composition of the Scientific Board, the Board of Trustees, the Academic Senate and Other University Bodies

BUT Scientific Board

Chair
(Date of Appointment)

- Doc. Ing. Ladislav Janíček, Ph.D., MBA, LL.M. (15. 3. 2022)

Members
(Date of Appointment)

- Prof. RNDr. Vladimír Aubrecht, CSc. (15. 3. 2022)
- Prof. Ing. Miroslav Bajer, CSc. (15. 3. 2022)
- Doc. Ing. Vojtěch Bartoš, Ph.D. (15. 3. 2022)
- Doc. MgA. Filip Cenek (15. 3. 2022)
- Prof. Ing. Libor Čapek, Ph.D. (15. 3. 2022)
- Prof. RNDr. Miroslav Doupovec, CSc. (15. 3. 2022)
- Prof. Ing. Rostislav Drochytka, CSc., MBA, dr. h. c. (15. 3. 2022)
- Ing. Karel Endlicher (15. 3. 2022)
- Dr. Otakar Fojt, MBA (15. 4. 2024)
- Prof. akad. sochař Michal Gabriel (12. 4. 2022)
- Prof. Ing. Martin Hartl, Ph.D. (15. 3. 2022)
- Doc. Dr. Ing. Petr Hanáček (24. 4. 2024)
- Doc. Ing. Jiří Hlinka, Ph.D. (15. 3. 2022)
- Prof. PaedDr. Radek Horáček, Ph.D. (15. 3. 2022)
- Doc. MgA. Milan Houser (15. 3. 2022)
- Prof. Mgr. Tomáš Kašparovský, Ph.D. (7. 11. 2022)
- Ing. Jaroslav Klíma (15. 3. 2022)
- Prof. Ing. Alena Kocmanová, Ph.D. (7. 11. 2022)
- Doc. Ing. Karel Kouřil, Ph.D. (12. 4. 2022)
- Prof. MUDr. Milena Králíčková, Ph.D. (15. 3. 2022)
- Prof. RNDr. Ivana Márová, CSc. (15. 3. 2022)
- Ing. Ilona Müllerová, DrSc. (15. 3. 2022)
- Ing. Eduard Palíšek, Ph.D., MBA (15. 3. 2022)
- Prof. Ing. Jan Pěnčík, Ph.D. (15. 3. 2022)
- Doc. RNDr. Vojtěch Petráček, CSc. (15. 3. 2022)
- Prof. JUDr. Radim Polčák, Ph.D. (15. 3. 2022)
- Prof. Ing. Karel Pospíšil, Ph.D., LL.M. (15. 3. 2022)
- Prof. Ing. Milan Pospíšil, CSc. (15. 3. 2022)
- Prof. MUDr. Martin Procházka, Ph.D. (1. 11. 2024)
- Prof. Ing. Valentýna Provazník, Ph.D. (15. 3. 2022)
- Prof. Dr. Ing. Zbyněk Raida (15. 3. 2022)
- Prof. Ing. Petr Sáha, CSc. (15. 3. 2022)
- Prof. Ing. arch. Michal Sedláček (15. 3. 2022)
- Prof. Ing. Lukáš Sekanina, Ph.D. (15. 3. 2022)
- Prof. Ing. Antonín Slaný, CSc. (15. 3. 2022)
- Prof. RNDr. Václav Snášel, CSc. (15. 3. 2022)
- Prof. Ing. Petr Stehlík, CSc., dr. h. c (15. 3. 2022)
- RNDr. Petr Střelec (15. 3. 2022)
- Ing. arch. Radek Suchánek, Ph.D. (14. 12. 2022)
- Prof. RNDr. Tomáš Šikola, CSc. (15. 3. 2022)
- Doc. PhDr. Iveta Šimberová, Ph.D. (15. 3. 2022)
- Prof. Ing. arch. Vladimír Šlapeta, DrSc. (15. 3. 2022)
- Prof. Ing. Josef Štětina (15. 3. 2022)
- Prof. Ing. Pavel Václavek, Ph.D. (15. 3. 2022)
- Prof. Ing. Michal Veselý, CSc. (15. 3. 2022)
- Prof. MVDr. Lenka Vorlová, Ph.D. (15. 3. 2022)
- Prof. Ing. Radimír Vrba, CSc. (15. 3. 2022)
- Prof. Ing. Martin Weiter, Ph.D. (15. 3. 2022)
- Prof. Dr. Ing. Pavel Zemčík, dr. h. c. (15. 3. 2022)

BUT Board of Trustees

Chair
(Membership From–To)

- Ing. ThLic. Evžen Lukáš Martinec, Ph.D., MBA
  (25. 10. 2019–25. 10. 2026)

Members
(Membership From–To)

- Ing. Eva Bartoňová
  (2. 8. 2021–2. 8. 2027)
- Mgr. Jan Grolich
  (6. 5. 2021–6. 5. 2027)
- Ing. Jiří Holoubek
  (1. 7. 2024–30. 6. 2030)
- Ing. Jaroslav Klíma
  (21. 5. 2018–21. 5. 2024)
- Ing. Miloslav Kopeček
  (21. 5. 2018–21. 5. 2024)
- PhDr. Miroslava Kopicová
  (6. 5. 2021–6. 5. 2027)
- František Mikš
  (15. 8. 2022–15. 8. 2028)
- Doc. JUDr. PhDr. Petr Mlsna, Ph.D.
  (6. 5. 2021–6. 5. 2027)
- Mgr. Stanislav Moša
  (3. 6. 2019–3. 6. 2025)
- Mgr. Jiří Nantl, LL.M.
  (1. 7. 2024–30. 6. 2030)
- Ing. Jiří Nekovář, Ph.D.
  (2. 8. 2021–2. 8. 2027)
- Ing. Eduard Palíšek, Ph.D., MBA
  (21. 5. 2018–21. 5. 2024)
- Mgr. Jan Souček
  (21. 5. 2024–20. 5. 2030)
- Ing. Milan Šlapák, Ph.D.
  (21. 5. 2024–20. 5. 2030)
- Ing. Petr Vokřál
  (21. 5. 2018–21. 5. 2024)
- Doc. Ing. Jiří Volf, CSc.
  (3. 6. 2019–3. 6. 2025)
- Prof. MUDr. Jiří Vorlíček, CSc., dr. h. c.
  (2. 8. 2021–2. 8. 2027)

BUT Disciplinary Committee

Chair

- Prof. RNDr. Miroslav Doupovec, CSc., dr. h. c.

Members

- Doc. MgA. Milan Houser
  (to 31. 10. 2024)
- Ing. Daniel Janík
  (to 31. 10. 2024)
- Ing. Martin Rak
  (to 31. 10. 2024)
- Ing. Katarína Rovenská
  (to 31. 10. 2024)
- Doc. PhDr. Iveta Šimberová, Ph.D.
  (to 31. 10. 2024)
- Mgr. Richard Adamík
  (from 1. 11. 2024)
- Ing. Vítězslava Hlavinková, Ph.D.
  (from 1. 11. 2024)
- Ing. Beáta Idesová
  (from 1. 11. 2024)
- Ing. Samuel Olekšák
  (from 1. 11. 2024)
- Ing. Jiří Přibyl
  (from 1. 11. 2024)

BUT Internal Evaluation Board

Chair

- Doc. Ing. Ladislav Janíček, Ph.D., MBA, LL.M.

Members

- Prof. Ing. Mária Režňáková, CSc.
- Doc. Ing. Miroslav Steinbauer, Ph.D.
  (from 30. 1. 2024)
- Prof. RNDr. Miroslav Doupovec, CSc., dr. h. c.
- Prof. Ing. Jan Jandora, Ph.D.
- Ing. Anna Kruljacová, M.Sc.
- Prof. Ing. Jindřich Petruška, CSc.
- Prof. Ing. arch. Vladimír Šlapeta, DrSc.
- Prof. Ing. Josef Štětina, Ph.D.
- Prof. Ing. Jarmila Dědková, CSc.
- Ing. Bohuslav Křena, Ph.D.
- Doc. Ing. Tomáš Opravil, Ph.D.
- Prof. RNDr. Jaromír Leichmann, Dr. re. nat. (from 15. 4. 2024)
- Ing. Pavel Maxera, Ph.D.
  (from 1. 11. 2024)
- Prof. RNDr. Radim Chmelík, Ph.D.
  (from 12. 12. 2024)
- Doc. Dr. Ing. Petr Hanáček
  (to 3. 1. 2024)
- Prof. Ing. et Ing. Stanislav Škapa, Ph.D. (to 31. 10. 2024)

BUT Academic Senate – Term of Office from June 2021 to June 2024

Chair

- Doc. Dr. Ing. Petr Hanáček (to 3. 1. 2024)
- Doc. Ing. Miloslav Steinbauer, Ph.D. (from 30. 1. 2024)

Vice-Chairs

- Doc. Ing. Tomáš Opravil, Ph.D.
- Ing. Anna Kruljacová, MSc.

AS BUT Chamber of Academic Staff

Chair of the Chamber

- Doc. Ing. Tomáš Opravil, Ph.D.

Members

- Ing. Petr Beneš, CSc.
- Doc. Ing. arch. Ivo Boháč, Ph.D.
- Doc. Ing. Pavel Diviš, Ph.D.
- Ing. arch. Nicol Galeová
- Doc. Dr. Ing. Petr Hanáček (to 3. 1. 2024)
- MgA. Ondřej Homola
- MgA. Tomáš Hrůza
- Doc. Ing. Jiří Jaroš, Ph.D.
- Ing. Stanislav Klusáček, Ph.D. (from 30. 1. 2024)
- Prof. Ing. Alena Kocmanová, Ph.D.
- Ing. Pavel Krečmer, Ph.D.
- Mgr. Bc. Helena Musilová
- RNDr. Pavel Popela, Ph.D.
- Doc. Ing. Vlasta Sedláková, Ph.D. (to 30. 12. 2023)
- Doc. Ing. Miloslav Steinbauer, Ph.D.
- Prof. Ing. Josef Štětina, Ph.D.
- Prof. Ing. Jiří Vala, CSc.
- Prof. Ing. Martin Trunec, Dr.

AS BUT Chamber of Students

Chair of the Chamber

- Ing. Anna Kruljacová, MSc.

Members

- Lukáš Brázdil (to 3. 1. 2024)
- Ing. Daniel Janík
- Ing. Petra Kosová
- Ing. Petr Liška
- Bc. Samuel Olekšák (from 30. 1. 2024)
- Ing. Katarína Rovenská – Vice-Chair
- Ing. Daniel Skřek
- Ing. arch. Adéla Šoborová
- Ing. Jan Zahrádka
- Mgr. et MgA. Martin Žák

Permanent Guests in the AS BUT

- Ing. Albert Bradáč, Ph.D. – IFE BUT
- Mgr. Ing. Miloslav Pašek, MBA – CESA

AS BUT Working Committees

AS BUT Legislative Committee

Chair

- Mgr. Bc. Helena Musilová

Members

- Doc. Ing. arch. Ivo Boháč, Ph.D.
- RNDr. Pavel Popela, Ph.D.
- Doc. Ing. Miloslav Steinbauer, Ph.D.
- Prof. Ing. Jiří Vala, CSc.

Students

- Ing. Anna Kruljacová, MSc.
- Ing. Petr Liška
- Ing. Jan Zahrádka

AS BUT Economic Committee

Chair

- RNDr. Pavel Popela, Ph.D.

Members

- Ing. Petr Beneš, CSc.
- Doc. Ing. arch. Ivo Boháč, Ph.D.
- Doc. Ing. Pavel Diviš, Ph.D.
- Ing. arch. Nicol Galeová – Vice-Chair
- MgA. Ondřej Homola
- MgA. Tomáš Hrůza
- Doc. Ing. Jiří Jaroš, Ph.D.
- Prof. Ing. Alena Kocmanová, Ph.D.
- Ing. Pavel Krečmer, Ph.D.
- Doc. Ing. Tomáš Opravil, Ph.D.
- Doc. Ing. Miloslav Steinbauer, Ph.D.
- Prof. Ing. Josef Štětina, Ph.D.
- Prof. Ing. Martin Trunec, Dr.
- Prof. Ing. Jiří Vala, CSc.

Students

- Ing. Daniel Janík
- Ing. Anna Kruljacová, MSc.
- Ing. Katarína Rovenská
- Ing. Daniel Skřek
- Ing. arch. Adéla Šoborová
- Ing. Jan Zahrádka

AS BUT Education Committee

Chair

- Doc. Ing. Miloslav Steinbauer, Ph.D.

Members

- Ing. Petr Beneš, CSc.
- Doc. Ing. arch. Ivo Boháč, Ph.D.
- MgA. Ondřej Homola
- Mgr. Bc. Helena Musilová

Students

- Ing. Daniel Janík
- Ing. Petr Liška
- Ing. Katarína Rovenská
- Ing. Daniel Skřek
- Ing. Jan Zahrádka

AS BUT Creative Development Committee

Chair

- Prof. Ing. Josef Štětina, Ph.D.

Members

- Doc. Ing. arch. Ivo Boháč, Ph.D.
- Ing. arch. Nicol Galeová
- MgA. Tomáš Hrůza
- Doc. Ing. Jiří Jaroš, Ph.D.
- Ing. Stanislav Klusáček, Ph.D. (from 30. 1. 2024)
- Ing. Pavel Krečmer, Ph.D.
- Doc. Ing. Tomáš Opravil, Ph.D.
- Doc. Ing. Miloslav Steinbauer, Ph.D.
- Prof. Ing. Jiří Vala, CSc.

Students

- Ing. Anna Kruljacová, MSc.
- Ing. Petr Liška (from 5. 12. 2023)
- Ing. Katarína Rovenská

BUT Academic Senate – Term of Office from June 2024 to June 2027

Chair

- Doc. Ing. Miloslav Steinbauer, Ph.D.

Vice-Chairs

- Doc. Ing. Tomáš Opravil, Ph.D.
- Ing. Daniel Janík

AS BUT Chamber of Academic Staff

Chair of the Chamber

- Doc. Ing. Tomáš Opravil, Ph.D.

Members

- Ing. Petr Beneš, CSc.
- Doc. Ing. arch. Ivo Boháč, Ph.D.
- Ing. arch. Nicol Galeová
- MgA. Ondřej Homola
- MgA. Tomáš Hrůza
- Doc. Ing. Lucie Hudcová, Ph.D.
- Doc. Ing. Jiří Jaroš, Ph.D.
- Prof. Ing. Alena Kocmanová, Ph.D.
- Doc. Dr. Ing. Dušan Kolář
- Ing. Pavel Krečmer, Ph.D.
- Ing. Pavel Maxera, Ph.D.
- Mgr. Bc. Helena Musilová
- RNDr. Pavel Popela, Ph.D.
- Doc. Ing. Petr Sedláček, Ph.D.
- Doc. Ing. Miloslav Steinbauer, Ph.D.
- Prof. Ing. Josef Štětina, Ph.D.
- Prof. Ing. Jiří Vala, CSc.

AS BUT Chamber of Students

Chair of the Chamber

- Ing. Daniel Janík

Members

- Ing. Gabriel Cabaj
- Ing. Beáta Idesová
- Ing. Ondřej Lokos
- Ing. Martin Očko – Vice-Chair
- Ing. Samuel Olekšák
- Ing. Jiří Přibyl
- Radoval Seléš
- Mgr. et MgA. Martin Žák

AS BUT Working Committees

AS BUT Legislative Committee

Chair

- Mgr. Bc. Helena Musilová

Members

- Doc. Ing. arch. Ivo Boháč, Ph.D.
- Doc. Ing. Lucie Hudcová, Ph.D.
- Doc. Ing. Jiří Jaroš, Ph.D.
- Ing. Pavel Maxera, Ph.D.
- RNDr. Pavel Popela, Ph.D.
- Doc. Ing. Miloslav Steinbauer, Ph.D.
- Prof. Ing. Jiří Vala, CSc. – Vice-Chair

Students

- Ing. Ondřej Lokos
- Ing. Martin Očko
- Ing. Samuel Olekšák

AS BUT Economic Committee

Chair

- RNDr. Pavel Popela, Ph.D.

Members

- Ing. Petr Beneš, CSc.
- Doc. Ing. arch. Ivo Boháč, Ph.D.
- Ing. arch. Nicol Galeová – Vice-Chair
- MgA. Ondřej Homola
- MgA. Tomáš Hrůza
- Doc. Ing. Lucie Hudcová, Ph.D.
- Prof. Ing. Alena Kocmanová, Ph.D.
- Doc. Dr. Ing. Dušan Kolář
- Ing. Pavel Krečmer, Ph.D.
- Ing. Pavel Maxera, Ph.D.
- Doc. Ing. Tomáš Opravil, Ph.D.
- Doc. Ing. Petr Sedláček, Ph.D.
- Doc. Ing. Miloslav Steinbauer, Ph.D.
- Prof. Ing. Josef Štětina, Ph.D.
- Prof. Ing. Jiří Vala, CSc.

Students

- Ing. Gabriel Cabaj
- Ing. Daniel Janík
- Ing. Martin Očko
- Ing. Jiří Přibyl
- Radovan Seléš

AS BUT Education Committee

Chair

- Ing. Petr Beneš, CSc.

Members

- Doc. Ing. arch. Ivo Boháč, Ph.D.
- MgA. Ondřej Homola
- Doc. Ing. Lucie Hudcová, Ph.D.
- Doc. Dr. Ing. Dušan Kolář – Vice-Chair
- Ing. Pavel Maxera, Ph.D.
- Mgr. Bc. Helena Musilová
- Doc. Ing. Miloslav Steinbauer, Ph.D.

Students

- Ing. Beáta Idesová
- Ing. Daniel Janík
- Ing. Ondřej Lokos
- Ing. Samuel Olekšák
- Ing. Jiří Přibyl
- Radovan Seléš
- Mgr. et MgA. Martin Žák

AS BUT Creative Development Committee

Chair

- Prof. Ing. Josef Štětina, Ph.D.

Members

- Doc. Ing. arch. Ivo Boháč, Ph.D.
- Ing. arch. Nicol Galeová
- MgA. Ondřej Homola
- MgA. Tomáš Hrůza
- Doc. Ing. Jiří Jaroš, Ph.D. – Vice-Chair
- Ing. Pavel Krečmer, Ph.D.
- Doc. Ing. Tomáš Opravil, Ph.D.
- Doc. Ing. Petr Sedláček, Ph.D.
- Doc. Ing. Miloslav Steinbauer, Ph.D.
- Prof. Ing. Jiří Vala, CSc.

Students

- Ing. Gabriel Cabaj
- Ing. Beáta Idesová
- Ing. Samuel Olekšák
- Mgr. et MgA. Martin Žák

2.4 Representation of BUT in the Representation of Universities and Other Important Organisations

Czech Rectors Conference

– Doc. Ing. Ladislav Janíček, Ph.D., MBA, LL.M.

Council of Higher Education Institutions

Member of the Council of Higher Education Institutions Presidium for BUT

– RNDr. Pavel Popela, Ph.D.

Chair of the Artistic Development Committee

– Ing. arch. Nicol Galeová

Member of the Council of Higher Education Institutions Assembly for BUT

– Doc. Ing. Vlasta Sedláková, Ph.D.

Members of the Council of Higher Education Institutions Assembly for BUT Faculties

– Ing. arch. Nicol Galeová (FA BUT)
– Ing. Ivana Jakubová (FEEC BUT)
– Doc. Mgr. Richard Fajnor (FFA BUT)
– Ing. Radek Kočí, Ph.D. (FIT BUT)
– Prof. Ing. Jana Korytárová, Ph.D. (FCE BUT)
– Ing. Pavel Mráček, Ph.D. (FBM BUT)
– Doc. Ing. Tomáš Opravil, Ph.D. (FCH BUT)
– Doc. Ing. Jan Roupec, Ph.D. (FME BUT)

Members of the Student Chamber of the Council of Higher Education Institutions

– Bc. Martin Horváth – delegate until 29. 1. 2024
– Ing. Katarína Rovenská – substitute until 29. 1. 2024, delegate as of 30. 1. 2024
– Bc. Jakub Mahdalík – substitute as of 30. 1. 2024

Research, Development and Innovation Council

– Prof. Ing. Martin Weiter, Ph.D. – Member
– Doc. Ing. Karel Kouřil, Ph.D., MBA, FEng. – Member

Czech Science Foundation

– Prof. Ing. Martin Hartl, Ph.D. – Member of the Board
– Prof. Dr. Ing. Jan Černocký – Member of the Scientific Board
– Prof. Ing. Valentýna Provazník, Ph.D. – Member of the Supervisory Board

The Board of the Register of Artistic Outcomes

– Doc. MgA. Milan Houser – Member

2.5 Changes to Internal Regulations in 2024

The Statute of BUT

– Effective as of 3 June 2024

BUT Wage Rules

– Amended by Amendment No. 2 effective as of 1 October 2024

3 Study Programmes, Study Organisation and Educational Activities

3.1 Total Number of Accredited Study Programmes Described by the Learning Outcomes Methodology

In 2024, BUT used the learning outcomes methodology in the development of newly accredited study programmes. Within the framework of institutional accreditation, ten study programmes were newly approved for implementation in 2024, one additional programme was granted accreditation by the National Accreditation Bureau (NAB) and one study programme was extended by the National Accreditation Bureau. In total, BUT offers 195 study programmes.

3.2 Participation of the Application Sphere in the Development and Implementation of Study Programmes

The faculties and university institutes of BUT are open to co-operation with all companies and research institutions in the fields of education, research and development. The faculties have been making long-term efforts to establish cooperation with major industrial partners and other institutions that are engaged in cutting-edge research and development or bring valuable practical experience. These partnerships have a significant impact on the quality of educational activities at BUT. Practice-proven implementations and understanding of companies' needs also create added value for the application potential of research and development.

Active communication with industry experts at BUT's central level is ensured through regular meetings of the Industry Council BUT, whose members include senior managers from major domestic and multinational industrial enterprises, as well as prominent representatives of the banking and Human Resources (HR) sectors. Companies such as Thermo Fisher Scientific Inc., Honeywell International Inc., ON Semiconductor Corporation, Hitachi Energy Ltd. and others can be mentioned.

Each study programme is subject to regular evaluation (at least once during the period of validity of the accreditation), and the programme guarantor must prepare an evaluation report, which includes the involvement of representatives from practice in educational activities. Each new study programme at BUT undergoes an approval process by the Scientific Board of the respective faculty, where industry partners are also represented. In numerous study programmes at BUT, industry professionals participate in teaching. These experts are typically members of state final examination boards and final thesis defence committees, and they actively participate in the development and implementation of study programmes. Current trends indicate the importance of continuous education of graduates throughout their careers, increasing the number of students in STEM fields, and graduate employability in the labour market.

In view of the changing labour market requirements, there is an increasing emphasis on graduates' ability to work in teams, communicate with people, and develop soft skills such as managerial skills, ability to present solutions, or effectively resolve conflict situations. Requirements for graduates in 10 years' time will also include the ability to work with different cultures and overall adaptability to new working conditions.

Faculty of Civil Engineering BUT (FCE BUT)

FCE BUT strives for the closest possible integration of construction theory with practice. It collaborates with the FAST BUT Industrial Partners Board and the Czech Chamber of Authorised Engineers and Technicians Active in Construction (ČKAIT) on the development of study programmes with emphasis on practical training. Students regularly participate in the South Moravian Region Construction Competition and cooperate with the Czech Association of Civil Engineers. The Faculty collaborates with most major companies in the field both in the Czech Republic and abroad, including, for example, Metrostav a.s., OHLA ŽS, a.s., and more recently Geosan Group a.s., which became a partner in 2024.

In 2024, FCE BUT concluded a significant agreement on long-term cooperation with IDEA StatiCa, s.r.o., a renowned provider of software solutions for structural engineering design. As part of the cooperation, FCE BUT will establish a specialised team of researchers and doctoral students called the Laboratory for Numerical Structural Design (LNSD), which will closely collaborate in the field of structural engineering design.

The teaching of the NUA025-Facility Management 2 course was conducted in 2024 in cooperation with the University Hospital Brno, featuring demonstrations of central control room operations, facility management, Computer-aided facility management (CAFM) system implementation, and other technological aspects of the hospital.

Faculty of Mechanical Engineering BUT (FME BUT)

In 2024, FME BUT became one of eleven training centres of Prusa Research a.s., one of the world's largest 3D printer manufacturers, launched across the Czech Republic for teachers' needs.

The prestigious bachelor's degree programme Professional Pilot is conducted at the FME BUT Aviation Institute, where students meet a number of experts from practice. Specialists from Siemens Energy AG complement the teaching in specialised subjects of Energy Engineering in the field of design, manufacture and operation of steam turbines, whilst ČEZ Group experts lecture students within the Nuclear Power and Alternative Energy Sources course. Thirteen students from the Energy Institute of FME BUT completed a prestigious two-week professional placement at the Dukovany Nuclear Power Plant. In addition to theoretical instruction, excursions to the power plant, specialist workplaces, and evening leisure programmes, students also faced examinations.

The Czech Optical Cluster organised an Optics Day in 2024 in cooperation with FME BUT. In addition to more than 100 students, active participants included Meopta s.r.o., TELIGHT, Carl Zeiss AG, HiLASE Centre, Narran s.r.o., Forvia – Hella, Magna Lighting Czech, EVPÚ Defence a.s., SAB Aerospace s.r.o., ROBE Lighting s.r.o. and the Young Microscopists Society.

There are numerous possibilities and forms of cooperation. The success of FME BUT in cooperation with industrial partners is evidenced by the number of renowned names of collaborating companies. Škoda Auto a.s., Mubea, SUB, JTEKT, Continental AG is just a brief sample of the long list of cooperating companies. Students regularly meet with most of them during the Company Day event directly on university premises.

Faculty of Electrical Engineering and Communication BUT (FEEC BUT)

FEEC BUT researchers are not only experts in their field but also have experience from joint projects with industrial partners. In 2024, FEEC BUT, together with ON Semiconductor Corporation and Codasip s.r.o., coordinated the development of human resources in higher education at the national level to support the development of the semiconductor industry. This initiative will culminate in 2025 with the opening of the National Semiconductor Centre.

FEEC BUT also cooperates with the German Aerospace Centre and the European Space Agency. In addition, two students gained valuable experience at S.A.B. in 2024 alongside their studies at BUT. Aerospace a.s. in the field of Product Assurance. In October and November 2024, a series of lectures and discussions on the topic of Technical Challenges and Vision for Future Mobility took place with the active participation of experts from Siemens Mobility GmbH, E.ON SE, InoBat Auto s.r.o. and the Czech Technical University in Prague.

Faculty of Chemistry BUT (FCH BUT)

The FCH BUT also places great emphasis on cooperation with industrial and innovative companies to ensure the transfer of professional and scientific activities into practice and maintain awareness of current needs and trends in industry. Representatives of the application sphere become patrons of study programmes and participate in the implementation of practical training, internships and assignment of final thesis topics. The traditional "Chemistry Day" event promotes cooperation with industrial partners and helps promote chemistry disciplines among prospective students. The Faculty cooperates with companies such as TESCAN ORSAY HOLDING a.s., Teva Pharmaceutical Industries Ltd., SLOVNAFT, a.s. and numerous other partners. Regarding professional lectures by commercial partners, we should mention the April lecture by Green Idea on aspects of cosmetic product manufacturing for students within the subjects Chemistry and Technology of Cosmetic Production and Cosmetology and Cosmetics Technology. In December 2024, part of the Development of Drugs and Drug Formulations course took place directly at Teva Pharmaceutical Industries Ltd. in Opava. Students had a unique opportunity to look behind the scenes of pharmaceutical production and gain valuable practical experience.

Faculty of Information Technology BUT (FIT BUT)

FIT BUT perceives partnership with the industrial sphere as an essential component in preparing future graduates for their diverse career paths. The faculty continuously develops and maintains a portfolio of industrial partners. The gold partners include Red Hat, Inc., Gen Digital, Inc. and Honeywell International Inc., whilst the complete list comprises approximately 40 partner companies. In 2024, FIT BUT and FEEC BUT became founding members of the Alliance for Electrical Engineering and Informatics. Through its competencies and modern equipment of individual faculties, the Alliance thus aims to serve as a motivator for attracting new investors to Central Europe.

Faculty of Business and Management BUT (FBM BUT)

Since its establishment, FBM BUT has placed a strong emphasis on cooperation with industry. Through collaboration with industry, students acquire practical knowledge, abilities and skills crucial for their employability in the labour market. The Faculty cooperates with more than 90 partner entities from the Czech Republic and abroad, including DHL International GmbH, Robert Bosch GmbH and Zebra Technologies Corporation. Companies are involved not only in teaching professional study programmes at FBM BUT but also in developing the Business Process Management Laboratory used in teaching. In 2024, the 6th annual Atlas Copco Services Award competition took place, recognising the best economic master's theses produced at domestic universities. The winner was Dominik Rabatin, a graduate of FBM BUT. The main areas of cooperation between the Faculty and companies, besides applied research, include particularly the assignment and opposition of bachelor's, master's, doctoral and other final theses, as well as consultancy advisory programme and lifelong learning courses for company employees.

Faculty of Architecture BUT (FA BUT)

FA BUT actively cooperates with numerous other significant institutions and entities in the Czech Republic and abroad. It is also a member of major international organisations. Among the national partner organisations, we can mention, for example, the Czech Chamber of Architects, the National Heritage Institute and the Institute for Spatial Development. Examples of specific cooperation between FA BUT and external partners in 2024 are as follows: the Healthy Houses 2024 Conference, FA BUT + Clay Building Association and a lecture by Kazunori Fujimoto. Kazunori Fujimoto is a Japanese architect known for his minimalist and geometrically pure designs, which often utilise concrete and glass as the main materials.

Faculty of Fine Arts BUT (FFA BUT)

FFA BUT has framework cooperation agreements with the National Heritage Institute and the Masaryk Memorial Cancer Institute. The faculty's activities are also reflected in, for example, the visual identities of surrounding cities or the activities of the Brno gaming cluster. FFA BUT cooperates with the creative industry, particularly in the field of gaming industry and design, and offers students professional internships and placements. Cooperating partners include gaming studios such as Amanita Design s.r.o. and Bohemia Interactive a.s.

Institute of Forensic Engineering BUT (IFE BUT)

IFE BUT is very closely connected with the application sphere. The cooperation consists in solving R&D tasks in the areas of transport safety, analysis of road accidents, defects and failures of structures (mechanical, construction), property valuation, occupational health and safety, analysis and assessment of technical systems risks, risk management, nanotechnology safety, in the form of diploma thesis assignments or contractual research. The preparation of expert opinions or expertise in expert fields, transport, economics, mechanical engineering and civil engineering cannot be overlooked. Cooperating companies from the Czech Republic and abroad are listed on the institute's website, notably including Škoda Auto a.s. and Jerex, s.r.o.

IFE BUT delivered expert lectures on topics such as photovoltaics on residential buildings and real estate valuation in cooperation with the expert office PKF Apogeo, s.r.o. Experts from practice participate in teaching and supervision of diploma theses. The Association of Expert Witnesses and Valuers is also among the cooperating entities.

Centre of Sports Activities BUT (CESA BUT)

CESA BUT implements the Sports Technology study programme, which includes 480 hours of practical training with more than fifty partners from technological companies, sports medicine and other fields. Experts from practice participate in teaching both compulsory and selective subjects.

3.3 Other Significant Educational Activities (Apart from the Implementation of Accredited Study Programmes)

Many other significant educational activities at BUT were carried out by the Continuing Education and Counselling Centre BUT (CECC BUT), which offers courses for employees and the public, including senior citizens. Eleven courses were delivered to the public in 2024 with 140 participants. As part of internal staff training, 97 courses were organised, attended by 935 persons. At the University of the Third Age (U3A) at BUT, 2,419 participants were educated across 64 courses.

Further education also took place at individual faculties and university institutes of BUT. These primarily included summer schools, workshops and conferences for students and academics, as well as specialised courses for applicants, the public and commercial entities.

In 2024, the FCE BUT Library Information Centre organised practically-oriented courses for early-career researchers entitled "Scientific Publishing A-Z" and "Research Data Management", in which doctoral students and young researchers acquired fundamental knowledge for their scientific research activities. Faculty staff participated in courses on the use of artificial intelligence tools in work and study. The lecturers introduced participants to the principles of prompting and emphasised adherence to ethical principles and critical thinking. Furthermore, two professional Master of Science educational programmes focusing on civil and environmental engineering were launched. The first semester of these programmes, culminating in a micro-certificate, was devoted to risk analysis, project funding, management and legislative aspects of civil engineering. Throughout 2024, FCE BUT conducted courses in water management and energy-efficient building systems. Additionally, a two-day seminar was held by the Institute of Structural Mechanics in collaboration with the University of South-Eastern Norway on the topic of structural reliability and sustainability. At the turn of August and September 2024, the Summer Technical School took place, which strengthened students' theoretical foundations necessary for studying at technical universities through engaging lectures by representatives from various fields.

Several summer schools were held at FME BUT in 2024, attracting hundreds of young enthusiasts to practical engineering. They tried their hand at soldering, programming, 3D printing, learned more about artificial intelligence and robots, and experienced university student life. A new addition to the Summer with Technology series was the expansion of the programme to include the Summer School of Materials Science, subtitled Journey into the World of Materials. In addition, there was the Summer School of Mechatronics, Summer School of Programming, Artificial Intelligence and Robotics AI.CAMP 2024 (for secondary and primary school pupils), Summer School of Manufacturing Technology, and Summer School of 3D Printing and Design – IngCamp 2024. The Science & Technology Club, which has been active at FME BUT for a number of years, and the new series of the Institute of Design called machineTALK are also trying to attract the public's interest in technology.

FEEC BUT held the second annual colloquium for students, teachers, scientists, researchers and professional public entitled Technical Challenges and Visions for Future Mobility. To date, 37 lectures have been delivered focusing on transport technology solutions of the present and near future from the perspective of selected experts, with the opportunity for professional discussion on the given topic. In addition to the lectures, 5 events were held, such as excursions, meetings, demonstration and test drives, and the electric vehicle afternoon is certainly worth mentioning. Within the NPO project Transformation of the Form and Content of Education at Brno University of Technology, a short-term educational module documented by a micro-certificate, focused on the design and installation of photovoltaic systems, was created and implemented in a pilot run.

FCH BUT organised the traditional student scientific international conference Chemistry is Life, participated in organising the conference Young Water Grinds the Banks, and organised the international scientific conference Chemistry and Life with a series of workshops aimed at strengthening international cooperation. As part of cooperation with secondary schools, a series of workshops was developed, encompassing topics that extend secondary school curriculum with practical applications. For doctoral study programme students, a supplementary course entitled Fundamentals of Scientific and Professional Work in Chemistry and Related Fields was introduced, aimed at creating practical conditions for writing project proposals

and high-quality publication outputs. For doctoral study programme students and academic staff, a series of lectures was delivered on the topic of artificial intelligence utilisation and opportunities for project submissions within newly prepared R&D calls.

FIT BUT annually organises the IT Summer School for Girls, which is designed for female secondary school students. They have the opportunity to get acquainted with various areas of information technology and its latest trends. The BISSIT International Summer School regularly presents current IT topics for international students. Furthermore, the faculty organises lectures with international experts on Vision, Graphics, and Speech.

At FBM BUT, within the NPO project Transformation of the Form and Content of Education at Brno University of Technology, three certificate-based courses were created and implemented, focusing on tax records, private law fundamentals, and marketing research for business model development and customer experience management. Simultaneously, within this project, six short-term educational modules documented by micro-certificates were created and piloted, focusing on brand development, business data analysis for practice, software support in project management, financial management of small enterprises, financial literacy for the 21st century, and creation and development of business models.

FA BUT organised a week-long Architectural Perspective Drawing Course for the general public in 2024, as well as Autumn Courses in Architectural Perspective Drawing, and Preparatory Courses for Talent Examinations. Throughout the year, numerous workshops were held for students and academic staff in collaboration with international personalities in the field of architecture.

FFA BUT organised afternoon courses in drawing, sculpture, and nude and figure drawing. Interested participants could attend summer schools led by FFA BUT alumni, focusing on sculpture, digital illustration, game design, painting, body design, screen printing, or audiovisual and sound production. FFA BUT actively promotes interest in visual arts through its exhibitions.

CEITEC BUT organised the Student Talent Summer School 2024. During the four-day programme, participants attended expert lectures and spent many hours in laboratories. A total of 32 talented secondary school and grammar school students from the Czech Republic and Slovakia engaged in eleven scientific topics prepared by doctoral students and research staff from CEITEC BUT. The main objective of the summer school was to introduce secondary school students to the world of science and research. They had a unique opportunity to delve into the mysteries of scientific work, experience the role of a researcher and gain practical experience in professional laboratories.

IFE BUT organised the annual international conference of experts in technical and technical-economic fields ExFoS (Expert Forensic Science) and participated in organising the 6th YTEC Student Scientific Conference with the Faculty of Transportation Sciences of the Czech Technical University in Prague (CTU), which is a unique opportunity for establishing new contacts and exchanging findings from scientific and research activities of forensic science experts not only from the Czech Republic. In addition to the traditional long-term courses aimed at preparing candidates for obtaining an expert's licence, in 2024, IFE BUT also focused on developing the knowledge and skills of experts who are already carrying out expert activities and adapting to the new conditions in the field of expert services. For these trainees, the Institute prepared a course that served to clarify the procedures for dealing with expert opinions to meet the demanding requirements of the new expert law. Within the NPO project Transformation of the Form and Content of Education at Brno University of Technology, three certificate-based courses were created and implemented, focusing on the development of professional competencies and expertise of experts in the field of transport engineering, risk analysis and road accident analysis. Furthermore, within this project, two short-term educational modules documented by micro-certificates were created and implemented in pilot runs, focusing on advanced valuation of machinery and equipment and advanced real estate valuation.

CESA BUT hosted the Summer School of Sports Technology. It was a three-day practically oriented training for 20 secondary school students from all over the Czech Republic. Furthermore, CESA BUT implemented the University of the Third Age programme called Senior in Good Shape. In 2024, CESA BUT launched a project for BUT employees entitled Wellbeing – Put Your Health First, which attracted 38 participants. As part of the Continuing Education and Counselling Centre BUT offer, CESA BUT conducted 5 courses for BUT employees, with 43 persons in attendance.

4 Students

4.1 Measures Applied to Reduce Academic Failure Rate

BUT has long been taking steps to promote study success in relation to potential applicants. All faculties and university institutes of BUT provide clear and detailed information about their study programmes and inform applicants about what to expect when studying, not only on their websites, but also at higher education fairs, high school campaigns and open days. The information provided will enable applicants to make the right choice of study programme, taking into account their individual abilities and interests, which is the first prerequisite for successful future studies.

All faculties of BUT offer preparatory courses for the admission examinations and courses for first-year students before the start of the first semester. At FA BUT, Autumn courses in architectural perspective drawing and Preparatory courses for talent examinations are organised. At FCE BUT, spring preparatory courses in mathematics, physics and descriptive geometry are held annually for prospective students. The courses also help candidates prepare for their secondary school leaving examination. Upon successful completion of the final test, selected study programmes will allow admission without admission examination. For those interested in studying architecture, a Preparatory course for talent examinations is held in autumn. Similarly at FEEC BUT, candidates have the opportunity to complete a preparatory course in mathematics before the admission procedure.

As a faculty seeking talented and highly motivated candidates, FFA BUT enables prospective students to meet with heads of individual studios, during which candidates can consult on the direction of their own work and choose a suitable study specialisation. Organised consultations take place during open days (Enter FFA), however, teachers are also available for individual consultations throughout the academic year. FFA BUT also organises targeted visits to selected secondary schools and a series of summer courses for those interested in studying.

It is also important to balance the entry knowledge of newly admitted students. Students from grammar schools, whose proportion is very high in some faculties of BUT, usually have only very marginal technical knowledge. In contrast, they have knowledge of mathematics and physics, giving them an advantage in theoretical subjects. The situation is reversed for graduates of technical schools.

At FEEC BUT, first-year students traditionally have the opportunity to supplement any missing knowledge in elective seminars in mathematics, physics and electrical engineering. At FME BUT, new students can enrol in elective courses such as Selected Chapters in Fundamentals of Design, Selected Chapters in Mathematics, Selected Chapters in Constructive Geometry or Selected Chapters in Elasticity and Strength, among others. A mathematics knowledge levelling seminar is also organised for first year students at FIT BUT and FBM BUT. At FCH BUT, preparatory and remedial courses are organised to support the academic success of incoming students in bachelor's degree programmes, specifically the Preparatory Course for Chemistry Studies, Review of Secondary School Chemistry Basics and Review of Secondary School Mathematics Basics. First-year students at FCE BUT can also enrol in supplementary optional courses as part of their studies, such as Solved Mathematics Problems or Solved Technical Physics Problems, the completion of which can help them successfully pass examinations in compulsory subjects. FCE also holds a Summer Technical School for incoming students, primarily to deepen their secondary school knowledge, which facilitates easier management of the first weeks of instruction.

Teachers in the school-wide follow-up master's degree programmes provided by IFE BUT also face different levels of learners' input knowledge. These are interdisciplinary programmes in which students acquire not only technical, but also economic and legal competences. In 2024, special attention was paid to the development of the study programme Real Estate Engineering. In connection with the preparation of the monitoring report, feedback from students and academic staff was evaluated and subsequently used to modify the study programme. At IFE BUT, students contact educational counsellors or staff members of the Study Department who provide guidance on how to comply with all rules for smooth studies and avoid the risk of premature termination of studies. For first-year students, an introductory lecture is organised where students are familiarised with the most important study regulations. In 2024, equal attention was paid to the doctoral study programme in Forensic Engineering in connection with the preparation of accreditation.

At FEEC BUT and CEITEC BUT, first-year and upper-year students can address their problems to ambassadors, which are upper-year students who help their classmates solve their potential and actual problems related to their studies. At FEEC BUT, there has been a so-called Mathematics Rescue Service for several years, where first-year FEEC BUT students have the opportunity to receive support from tutors in learning mathematics. FIT BUT uses study advisors, faculty staff who advise students on how to follow all the rules for a smooth course of study and avoid the risk of early graduation due to ignorance of the regulations. For several years now, the institute of study advisors has also been working at FCH BUT, where every institute has its own advisor. FA BUT, FFA BUT, FP BUT or FAST BUT organise an introductory lecture for first-year students, in which they are introduced to the most important rules of study. At FFA BUT, the course called Respect Down to the (Academic) Ground continues to be offered. It is a practice-oriented interactive workshop aimed at providing learners with information and tools to deal with ethical problems in particular that could

lead to their failure to complete their studies. At FFA BUT, for several years now, first-year students have had the opportunity to take the FFA Orientation course, which is structured around a gradual introduction to the school building and all its departments. The aim is to inform the learners about the structure of the study, the assessment, the application process, the possibilities of scholarships and student grant competitions or about intra-faculty and national internships or foreign stays. A separate section covers the basics of writing academic texts, methodology and how to work with sources and citation standards. Attending a sexual violence prevention workshop followed by a consultation session with the school ombudsman is also important.

CEITEC BUT focuses on an individual approach to doctoral students. All necessary information regarding their studies shall be provided during the process of registration, during which there will be time allocated for any questions. Throughout their studies, students may address their study-related issues directly to the Study Department, which handles individual matters on a case-by-case basis and strives to resolve them in the student's favour.

The Alfons Counselling Centre (Alfons), which is part of CECC BUT, also helps to identify causes of academic failure, where students can take advantage of individual consultations. In addition, Alfons offers the possibility of further development in case of specific needs of students, for example, the use of EEG Biofeedback equipment, which helps to increase the ability to concentrate. Students with specific needs receive special attention and care at the Alfons Centre, which helps them successfully complete their studies.

In 2024, the Chamber of Students of the BUT Academic Senate has prepared a well-arranged BUT Freshman's Guide for new students. It is available online at www.prirucka.vut.cz, and first-year students can find a range of useful information there to help them start and continue their studies at BUT.

4.2 Final Decisions on the Declaration of the Invalidity of the Performance of the State Examination or Its Part or the Defence of the Dissertation

No such proceedings took place at BUT in 2024.

4.3 Measures Applied to Limit the Extension of Studies

One important means of limiting the extension of studies remains the threat of fees associated with exceeding the standard period of study extended by one year. The study departments of all BUT units try to thoroughly inform students about the conditions of the fee obligation from the beginning of their studies so that they can adjust their study strategy in time to avoid potential payment of fees. While the fee is relatively small for the first year after the standard period of study has been extended by one year, it is a significant financial amount for longer periods of study. In 2024, fees were reduced within the framework of the appeal procedure following assessment of the stated grounds, primarily health-related and social circumstances. Fees are also reduced for students who extend their studies due to study stays abroad. Individual approach in this regard continued to be applied to students affected by the ongoing war in Ukraine.

At all faculties and university institutes of BUT, students are advised on the organisation of their studies in specific study programmes to avoid extending their studies. Preparatory courses, which help students bridge the transition from secondary school to university, are also very beneficial.

Some faculties and university institutes of BUT regularly use an extended examination period after the end of the summer semester when students can take missing exams for both the winter and summer semesters, thus increasing their chances of advancing to the next year of study without having to repeat some courses. At FA BUT, the examination period following the winter semester is also extended by one week.

Some faculties and university institutes of BUT also enable more flexible course registration to allow students to better plan their studies. CEITEC BUT adapts the study plans of its doctoral students to their individual needs, which particularly applies to international students who commence their studies during the academic year due to lengthy visa processes.

At FIT BUT, the most frequent reason for prolonging studies in the long term is the concurrent employment of students. Since students usually work in the field they are studying at the same time, the faculty cooperates with companies on a system of student internships, which, compared to traditional employment, better enable students to fulfil their study obligations. The same problem is also

encountered in the follow-up Master's studies at FBM BUT. Here, too, the faculty tries to cooperate with companies on the organisation of studies.

FCE BUT strives to reduce the failure rate by, for example, increasing the proportion of practical teaching and individual attention to students. The main issues are the difficulty level of specific courses, as well as course content not meeting students' expectations. Therefore, it is necessary to thoroughly inform applicants and new students about the content of their studies.

4.4 Own and Specific Scholarship Programmes

At most faculties and university institutes of BUT, merit scholarships are paid in bachelor's and master's degree programmes to outstanding students according to the achieved grade point average and the number of credits earned. For example, at FCE BUT, an internal standard amount of scholarship is determined annually for successful students with a grade point average of up to 1.5. Some faculties and university institutes of BUT also regularly support gifted first-year students with an exceptional scholarship based on their academic performance in the first semester of study.

At all faculties and university institutes of BUT, students can receive a scholarship if they engage in scientific or creative activities beyond their standard study obligations. For exceptional academic or creative achievements, students are rewarded with the Dean's Award, Director's Award, or the Rector's Award.

The scholarship also supports significant representation of the school in sport. The specific conditions for obtaining these scholarships are set by the Sport at BUT project and 238 such scholarships were paid in 2024. BUT is also involved in the UNIS scholarship programme of MEYS for students with exceptional sporting performance. In 2024, 25 students were also included in the scholarship programme of the VICTORIA University Sports Centre on the basis of a selection procedure. A further 116 exceptional scholarships were paid out from the PPSŘ project to support talented students.

Faculties and university institutes of BUT also support their active students in the form of one-off exceptional scholarships for representing the school in the field of science or other creative activities. FME BUT annually conducts promotional activities at secondary schools, where students present their university study experience at their former secondary schools. FA BUT regularly awards scholarships for outstanding work by its students who have also broken through outside BUT. Similarly, students of FME BUT present studies at educational fairs (e.g. Gaudeamus) and similar events for prospective applicants.

At FIT BUT, they motivate outstanding doctoral students with extraordinary scholarships that match their income up to the average wage, so that they can devote themselves fully to their studies and not be forced to work outside the university at the same time. Other faculties support doctoral students with motivational scholarships for research and publication achievements. At FEEC BUT, doctoral students can receive a substantial extraordinary scholarship if they submit their doctoral thesis within the standard period of study. CEITEC BUT supports its doctoral students with excellent results in the form of an extraordinary scholarship during the entire regular period of study, which is four years. Several scholarship support programmes have traditionally been offered by FFA BUT, in the form of the announced scholarship programmes called Support for the implementation of the thesis, Support for artistic and creative activities of students, Support for artistic activities of doctoral students, Dean's Award for the master's thesis and bachelor's thesis, Artwork Loan Scholarship (Artotheque). The aim of these scholarships is to support outstanding artistic work of BUT students.

The aim of the extraordinary scholarship programme at IFE BUT is to motivate doctoral students to fulfil their study obligations within the doctoral study programme in a timely manner and to increase the quality and number of publications in professional and scientific journals, to actively participate in doctoral, national and international conferences, to create technical outputs from measurements, from solving complicated and unusual expert cases and from solving other forensic engineering issues, to develop methodologies for solving expert problems, to submit and solve projects and to take an active approach in fulfilling the tasks of the training workplace.

The Rector of BUT may, while respecting the rules set out in the internal standard, grant a student an extraordinary social grant in the event of a sudden deterioration of the social situation. The purpose of this one-off scholarship is to help bridge an unfavourable period and increase the chances of successfully continuing studies. Students may also obtain extraordinary social scholarships at some faculties and university institutes of BUT.

The Chamber of Students of the BUT Academic Senate offers active students the opportunity to obtain funding for their idea through the BUT Internal Student Support Fund. Submitted proposals are evaluated by a committee, which can allocate up to several tens of thousands of crowns for selected student activities.

4.5 Counselling Services Provided to Students and Their Scope

Within CECC BUT, there is the BUT Counselling Centre, which aims to support students in their personal, academic and professional lives. There are 4 staff members with psychological education who provide professional assistance to BUT students and employees in the field of psychological and career services. At BUT, the BUT Counselling Centre is integrated into the social security system, cooperates with faculties and university institutes of BUT and various student organisations, and continues to strive for the integration of its services into the university's structures and activities. All staff members of the Counselling Centre are members of the Association of Higher Education Counsellors.

CECC BUT provides the following counselling services:

- psychological counselling;
- career counselling;
- coaching;
- development of a professional-personality profile (counselling using psychodiagnostic methods);
- psychological care for students and employees who have found themselves in a difficult personal or work situation due to disruption of social security;
- development courses for students aimed at supporting the student's personality and competencies related to their future position in the labour market.

A total of 1,556 consultations were provided in 2024, of which the majority (1,421) were psychological consultations, see Table 1.

Table 1: Number of services provided in 2024

Service	Number
Psychological consultations	1,421 consultations
Personal development courses	15 courses
Coaching	12 consultations
Career consultations	31 consultations
Social security	2 consultations
Professional and personal profile	90 consultations

4.6 Support for Students with Special Needs and Their Identification

Support for students with specific needs is provided by Alfons – Centre for Students with Special Needs, which is part of CECC BUT. Its main task is to provide counselling and support services to applicants and students with specific needs. Specific needs are defined as specific learning disabilities, physical and sensory disabilities, chronic somatic illnesses, autism spectrum disorders, mental illness and impaired communication skills.

Core support for applicants with specific needs includes admissions adaptation, i.e. modifying/altering the admissions process so that applicants with specific needs can demonstrate their skills and knowledge in the same way as intact students. Identification takes place when filling in the e-application form, where the applicant indicates his/her specific need. He/she is then invited by a member of staff from Alfons to provide the acceptable documents necessary to assess the impact of the disadvantage on the admissions process.

Students apply for adaptation directly by contacting Alfons, or they are referred to Alfons by the Study Department of individual faculties and university institutes of BUT or Vice-Deans for Study Affairs. Information about activities and support options is regularly provided during Open Days, on the Centre's website and on social media. Study adaptation takes the form of various direct measures. These include, for example, extended time allowance during examinations, provision of study materials where applicable, Czech Sign Language interpretation, transcription service, enlarged assignments or permission for hygiene breaks, etc.

Additional support services include the loan of software aids, supplementary English language instruction or English conversation practice, language revision of works in Czech and English, language consultancy in Czech and English, and participation in educational courses organised for students with special needs. In 2024, the S-compass social and legal counselling service was also in operation. Alfons also runs queer support groups as part of student support.

Alfons also offers individual and group consultations and prepares educational courses for teaching staff working with students with special needs. These educational courses are tailored according to the requirements of specific faculties and university institutes of BUT.

Alfons has been working on the Dictionary of Selected Technical Terms of Czech Sign Language for a long time. Currently, the Dictionary contains 901 terms translated into Czech sign language and is also used outside the university environment.

As part of fulfilling the university's third role, Alfons participates in the "Unheard of event", where it presents its services for BUT students with hearing impairments. Furthermore, it participates in meetings of the Brno City Council Advisory Board for Barrier-free Brno, which addresses issues of accessibility and barrier removal in the city of Brno. Alfons is also an active member of the Association of Service Providers for Students with Special Needs and the Association of Higher Education Counsellors.

In 2024, the Centre was a member of the Werner von Siemens Award jury in the category of Recognition for Overcoming Study Barriers. In 2024, a student from FEEC BUT became the winner of this category.

In 2024, Alfons was also involved in projects, specifically NPO, PPSŘ and the Programme of Support for the Development of Higher Education (PPRO).

Table 2: Development in the number of clients by type of special needs

Type of special need	2017	2018	2019	2020	2021	2022	2023	2024
A1 – mild visual impairment	5	5	3	5	8	7	3	7
A2 – severe visual impairment	0	0	0	0	0	1	1	2
B1 – mild hearing impairment	13	12	13	19	18	21	3	15
B2 – severe hearing impairment	2	1	2	2	2	2	1	1
C1 – lower limb disability	1	1	0	4	5	2	4	7
C2 – upper limb disability	3	3	4	4	4	3	2	2
D – specific learning disabilities	85	84	104	185	177	216	287	296
E – autism spectrum disorders	5	4	6	7	5	8	16	18
F – psychological and chronic somatic illnesses	39	31	50	54	69	83	98	113
Total	**153**	**141**	**182**	**280**	**288**	**343**	**415**	**461**

4.7 Support for and Work with Exceptionally Gifted Students and Those Interested in Studying

Faculties and university institutes of BUT provide gifted students with merit or extraordinary scholarships and can nominate them for the Dean's Award, Director's Award or the Rector's Award. Some of the funds for the award of exceptionally talented students are donated by specific corporate partners. Gifted students can present themselves in established external competitions such as the Josef Hlávka Award, the Werner von Siemens Award or the Brno Ph.D. Talent. In 2024, six talented students from Brno University of Technology, representing all levels of study, were awarded the Josef Hlávka Award. One master's degree student from FME BUT received the Minister of Education, Youth and Sports Award. In the traditional competition for Brno Ph.D. students Talent, eight doctoral students from the BUT were awarded in 2024. Among the internal competitions, we can mention the presentation competition 8 from the BUT, which the university organises annually and in which the best eight graduates of bachelor's degree programmes compete in rhetoric and popularization of their bachelor's theses.

A teacher at FFA BUT can already get information about the exceptional talent of a prospective student before the admission procedure begins, usually by contacting the prospective student and consulting him/her about his/her artistic intentions and ideas for their realization within the framework of his/her studies. After fulfilling all the basic conditions for admission to study, such a student is given individual attention in a specific studio.

At FIT BUT, exceptionally talented applicants are admitted without the traditional admission examinations on the basis of outstanding results in prestigious competitions, and as students they are then further encouraged to engage in research in the form of project practice. At FBM BUT, gifted students are provided with individual space to participate in the professional activities of the faculty as an auxiliary scientific force, if they wish, or within the framework of the programme of support for the development of student start-ups linked in particular to professional study programmes. Another form of support is the programme of consulting individual entrepreneurial projects. At FEEC BUT, students of all forms of study can participate in the annual STUDENT EEICT competition, where talented students have the opportunity to present their creative activities before expert committees composed of representatives from both academic and industrial spheres.

At IFE BUT, gifted students are involved in solving current problems related to the Institute's creative activities, especially by offering them a choice of suitable thesis topics to motivate them to continue their doctoral studies. Upon completion of studies, gifted students in follow-up Master's degree programmes are awarded the Rector's Award and the Institute Director's Award for excellent academic results, including exceptionally well-prepared and beneficial master's theses. These awards are accompanied by the granting of a scholarship and are presented during the formal graduation ceremony.

Applicants for study at BUT are also involved in secondary school professional activities or competitions, such as STAVOKS at FCE BUT, Business Point at FBM BUT, Merkur PerFEKT Challenge at FEEC BUT or Robots@FSI, Internet Mathematical Competition MATHING and Pneuracer at FME BUT. Thanks to the CEITEC Student Talent Summer School project, which took place in August 2024, selected applicants from secondary schools and grammar schools from both the Czech Republic and Slovakia had the opportunity to experience work at the CEITEC BUT scientific centre. During the four-day programme, participants attended expert lectures and spent many hours in laboratories. The main objective was to introduce secondary school students to the world of science and research. They had a unique opportunity to delve into the mysteries of scientific work, experience the role of a researcher and gain practical experience in professional laboratories. Furthermore, prospective students are offered participation in summer schools, which take place at many faculties and university institutes of BUT. Completion of these activities may be advantageous at some faculties and university institutes of BUT, and the participant may be exempted from the admission examination.

In addition to activities in student organisations such as Board of European Students of Technology Brno (BEST Brno), International Association for the Exchange of Students for Technical Experience(IAESTE), Erasmus Student Network VUT Brno (ESN BUT), active students can also find employment in specific scientific projects at their home institutes. Doctoral students are commonly involved in specific research, participate in international conferences, etc.

Every semester, FA BUT offers gifted students the opportunity to study in a special studio of a visiting teacher, who is usually a prominent foreign artist. FFA BUT offers successful students residential stays both in the Czech Republic and abroad. In cooperation with the Brno House of Arts, the Faculty also offers a selected graduate the opportunity of a two-month residency at the House of Lords of Kunštát each autumn, there is also the possibility of a one-year free studio provision at the Kraví hora complex, and the FFA BUT Dean's Award for faculty graduates has for several years included the opportunity of a one-month artistic residency at Nová Perla in Vrané nad Vltavou.

FCH BUT provides talented secondary school students with a wide range of secondary school professional activities and professional internships. Under the guidance of academic staff, secondary school students have the opportunity to work on topics which they can then continue to study if admitted. As part of chemistry popularisation, a series

of workshops and lectures was again prepared, focusing on current topics and serving to practice practical skills in the laboratory environment. Another important activity at FCH BUT was traditionally the organisation of the regional round of the Chemical Olympiad. At FCE BUT, topics for secondary school students are announced annually, which they process in cooperation with doctoral students and subsequently defend before a committee. Based on a successful defence, these students may be admitted to study without an admission examination.

4.8 Support for Students with Socio-Economic Disadvantages and Their Identification

In 2024, BUT provided support to socioeconomically disadvantaged students through the following measures:

- Social scholarships. BUT offers social scholarships to students who meet the specified conditions, thereby helping them overcome financial barriers during their studies.
- Support within the Erasmus+ programme. Students facing economic barriers may receive additional financial support when participating in study stays.
- Counselling. The team of psychologists at CECC BUT provides support to socioeconomically disadvantaged students with emphasis on specific opportunities within the BUT environment.

4.9 Support for Student-Parents

In accordance with the Higher Education Act, any student who is also a parent may request an individual study plan from their faculty and university institute of BUT. This applies especially to student mothers during the period when they would otherwise be on maternity leave. These students can also request a postponement of the review of the fulfilment of study obligations in the period around their due date. Students who are parents of a child under the age of three may interrupt their studies. According to the Study and Examination Rules of BUT, the Dean always grants such requests, and the period of interruption due to parenthood does not count towards the maximum period of study.

Some faculties allow doctoral students with young children to substitute a foreign internship with another form of international activity. At IFE BUT, both parents of a child under three years of age may request individual adjustments to attendance requirements in courses in which attendance is compulsory. FME BUT allows students-parents to take exams outside the exam period or to set up an individual study plan. At FCH BUT, students-parents can apply for financial support in the form of a scholarship.

FFA BUT allows students-parents to fulfil their study obligations in extraordinary terms throughout the academic year, or to spread them over several years. Some studios have also adapted their facilities to allow studying parents to bring their young children into the studio to engage in art making.

Edisonka mini-school has been running for its tenth year at BUT. The mini-school is located on the premises of FEEC BUT and is intended for children of BUT employees. It is not a traditional nursery school, but provides a regular babysitting service in the form of a children's corner, for children under 6 years of age. FCH BUT provides a room as facilities for students-parents who take turns in childcare between individual teaching blocks. Selected ladies' restrooms at BUT are equipped with baby changing tables.

5 Graduates

5.1 Cooperation and Contact with Graduates

BUT annually expands its database of electronic contacts for alumni. At the end of 2024, there were nearly 29,000 contacts, representing an increase of more than 1,500 contacts compared to 2023. The University showcases its successful alumni mainly through articles on the alumni website and at www.zVUT.cz. More than 10 articles about alumni were published during 2024. These topics also resonate on social media, the strongest of which is LinkedIn (with over 63,000 followers).

In 2024, BUT also continued to publish the VUTARIUM newsletter for alumni. During the year, three issues were published with articles, interviews, invitations and information about current events at BUT.

The cooperation with alumni also continued with their involvement in the design and creation of representative promotional items of BUT. The graduates continued to be featured on social media as protagonists of campaign videos and posts for the applicant campaign called "Tady můžeš něco změnit", in the English version "Here you can make a change".

In 2024, BUT also continued to communicate with other universities within the grouping of University Graduate Centres in the Czech Republic under the auspices of the Prague University of Economics and Business (VŠE) with the aim of sharing current needs, know-how, data, research and good practice in working with graduates.

In 2024, a new comprehensive full-fledged online platform for BUT graduates www.vutalumni.cz was developed and successfully launched with a unified registration environment for creating and managing an updated contact database, offering opportunities to get involved in BUT activities, cooperation and benefits, and opportunities for active two-way communication between the university and alumni.

5.2 Monitoring the Employment of Graduates, Measures to Increase It, Own Surveys and Reflection of Results in the Content of Study Programmes

In mid-2024, BUT conducted a survey among graduates of follow-up Master's degree programmes (studies completed in the summer semester 2022/2023), which provided a comprehensive view of their employment status one year after graduation. Out of 1,847 graduates contacted, 316 persons completed the questionnaire (17% response rate). BUT graduates demonstrate excellent employability in the labour market with a 96% employment rate, high starting salaries and rapid job acquisition. The majority expressed satisfaction with their studies (84%) and would choose to study at BUT again (67%). Based on the survey, the greatest potential for improving education was identified in the development of practical skills, communication abilities and managerial competencies.

The employment rate of graduates is exceptionally high, 96% are working one year after graduation and 99% have work experience. The majority (67%) had secured employment before completing their studies, with a further 24% obtaining work within three months. Significant work activity during their studies contributed to this, with 53% working steadily and a further 23% working occasionally.

The employment characteristics show that graduates most frequently work in the private sector (79%), primarily in foreign or international companies (37%) and Czech companies (30%). The dominant sectors are IT (17%), mechanical engineering (18%) and civil engineering (16%). The majority of graduates remain working in Brno (56%) or the South Moravian Region (5%). The average gross monthly income one year after graduation reaches CZK 52,714, with significant differences between faculties and university institutes of BUT (the highest income was earned by FIT BUT graduates at CZK 71,850, the lowest by FCE BUT graduates at CZK 45,067).

The evaluation of studies is predominantly positive, 84% of graduates are satisfied with their studies and 62% consider it demanding. If given the choice again, 53% would choose the same faculty and university institute of BUT, and the same programme, and another 14% would choose the same faculty and university institute of BUT with a different programme. Education from BUT is perceived as beneficial for obtaining employment (83% agree) and the university's prestige is rated highly (72% agree).

The comparison of acquired and required competencies reveals both BUT's strengths and opportunities for improvement. Education at BUT excels in developing theoretical expertise (average 1.62), learning ability (1.67) and information processing (1.89). Conversely, the greatest discrepancy between acquired and practically required competencies is evident in managerial skills (difference of 0.82 points), presentation and communication abilities (difference of 0.57 points), and foreign language proficiency (difference of 1.55 points).

Opportunities for educational development at BUT primarily lie in strengthening practical training, incorporating more projects developing communication skills and teamwork, expanding foreign language teaching with a focus on professional terminology, and more intensive involvement of industry experts. It would also be appropriate to strengthen interdisciplinary cooperation and support the development of entrepreneurial and managerial skills, which are highly valued in practice but insufficiently developed during studies.

5.3 Cooperation with Students' Future Employers

In last year's edition of the Times Higher Education World University Rankings, BUT defended its position and simultaneously achieved the position of the best technical university in the Czech Republic in terms of overall score. Particularly in the area of industry cooperation, it scores the highest among all Czech universities and has long been among the most valued domestic universities in this criterion.

BUT, both at the university level and the level of individual faculties and university institutes of BUT, closely cooperates with industrial partners who are employers of our graduates and students, partners in grant research projects, and also clients of contractual research. The building of BUT's competitive position as a modern technical university and beneficial research organisation is based precisely on cooperation with industrial partners. Thanks to this, the university has achieved leading positions in numerous technological areas, not only in the Czech Republic.

The Industry Council BUT serves as the BUT Rector's advisory board for industry cooperation, established to support knowledge transfer and intellectual property trading, as well as a discussion platform for industry educational needs and an evaluation platform for assessing study programmes.

One of the key activities within the cooperation with BUT graduates' employers was the implementation of a national survey, commissioned by BUT and processed by the National Training Fund. The survey focused on the application of university education in STEM fields in the labour market. The aim of the investigation was to provide BUT with answers to questions that are important for updating and developing the university's educational activities, particularly concerning the field structure and competencies expected from graduates by employers, the division of roles between higher education and further professional training, and partly also the issue of young people's interest in studying STEM fields. The Industry Council BUT university management and management of faculties and university institutes of BUT were familiarised with the survey results, and the results were also presented and discussed at several conferences where BUT representatives spoke or at events directly organised by BUT.

A premier event of this type is the discussion meeting to support technical and scientific education, which BUT once again organised in autumn of last year. The discussion, introduced by the Prime Minister and Minister of Education, Youth and Sports of the Czech Republic, focused on specific steps taken to support STEM studies during the past year and also analysed the needs and expectations of students, employers and academia. The debate also focused on the new Economic Strategy of the Czech Republic and recent European Commission reports, including Mario Draghi's report, which emphasise the importance of investment in education and technological research. The meeting was attended by government representatives, technical and science universities, industry representatives and other organisations and institutions that support STEM studies as part of their activities. This discussion meeting demonstrated an alignment of views among all participants, which resonated with the priorities of the adopted national Economic Strategy of the Czech Republic. BUT will continue these activities, that means strengthening connections and cooperation with industry as a strategic alliance on which it builds its development and jointly showing young people the prospects and endless opportunities to realise their dreams in the world of technology.

At the level of faculties and university institutes of BUT, cooperation with employers also takes place in teaching and research. Faculties and university institutes of BUT have established their own partnership programmes that specify the scope of mutual cooperation in more detail. Career fairs are also an integral part of cooperation with

industry. BUT students have the opportunity to meet future employers at several of these fairs annually. The perFEKT JobFair trade fair has been taking place at FEEC BUT for sixteen years, where companies from the electrical engineering and information and communication technologies sectors present themselves. FME BUT organises the Company Day, which is designed for the presentation of companies from the mechanical engineering sector. The Fast Job Days career fair takes place at FCE BUT, enabling students to connect with practical experience. At the same time, companies that collaborate with the faculty within the partnership programme present themselves at the fair. At the iKariéra job fair, organised at FBM BUT, students have the opportunity to consult their CV or LinkedIn profile with recruiters from individual companies, obtain a professional photograph for their CV, or compete for valuable prizes. Visitors can also attend lectures on personal and career development, workshops on Unity with virtual reality, and other accompanying programmes. The fair is organised by the student organisation IAESTE LC Brno, which, in addition to the fair, also arranges paid professional internships abroad in more than 80 countries worldwide.

Another example of employers meeting BUT students is the Excel@FIT student conference organised by FIT BUT, which celebrated a significant milestone in its journey of connecting academic and industrial spheres in 2024. Its tenth annual edition was held on Thursday, 2 May from 12:00. The conference was dominated by current topics resonating not only within the IT world but also with the general public, deepfakes, artificial intelligence and machine learning, or system verification and analysis. Student projects were presented to academics, company representatives and all those interested in current trends through posters and functional demonstrations. The jubilee Excel@FIT also offered a panel discussion with IT experts and, as part of the accompanying programme, guided tours of the faculty, an overview of the best works that have passed through the conference over the past decade, and a FabLab lorry equipped with manufacturing technology.

Further forms of cooperation with industrial partners are described in subsections 3.2, 9.5 and in chapter 12.

6 Interest in Studies

6.1 Nature of the Admission Examination

Most faculties and university institutes of BUT organise their admission examinations independently, with only some faculties and university institutes of BUT using the services of Scio company, which regularly conducts National Comparative Tests. Most admission examinations include high school mathematics and physics, but some BUT faculties also include biology or computer science, depending on the specific programme of study.

At most faculties and university institutes of BUT, there is an extensive system of possibilities for waiving admission examinations, based on achievement or participation in various competitions (especially in secondary school professional activities, various olympiads, etc.). FIT BUT has long sought active applicants who are already involved in activities at secondary school in addition to their study duties. FA BUT, FFM BUT and the study of architecture within FCE BUT also have a talent part in the admission examination, which candidates take first and which is a condition for admission to the next (theoretical) part of the admission examination. The talent test is also taken by candidates at FEEC BUT for the Audio Engineering programme and at FME BUT for the Industrial Design in Mechanical Engineering programme. Furthermore, at FME BUT, applicants for the Bachelor's programme in Construction Engineering must submit a motivation letter along with their application and undergo an admission interview.

Admission examinations for study programmes conducted in English are most often conducted in the form of oral interviews, in which, among other things, the motivation to study and the applicants' language readiness are determined. The specific character of the admission examinations for doctoral study programmes is that they are conducted in the form of an expert debate on the intended dissertation topic, where not only the necessary knowledge but also the applicant's readiness for the subsequent scientific work are verified.

6.2 Cooperation with Secondary Schools

As part of the Roadshow project, BUT continuously visits secondary schools to present its faculties and university institutes of BUT. The selection of secondary schools is based on the relevance of their focus, the region, and other criteria. Ambassadors and BUT students, visit secondary schools that express interest in the Roadshow to present study programmes and provide information about studies and student life at BUT. In the discussion that follows, the ambassadors answer specific questions from the applicants. The principle of ambassadorship and the involvement of BUT students directly in the Roadshow programme has a positive response among secondary school students because the presenters are close to the applicants in age and contribute to a positive perception of BUT. The university also utilises opportunities to participate in local job fairs, which are attended by secondary school students, to present study opportunities to prospective applicants.

For the purpose of communication with secondary schools, a contact database has been established, which is actively used for disseminating information.

As part of the European Social Fund Plus project, under the Operational Programme Johannes Amos Comenius (ESF+ JAC), activities were designed to promote interest among applicants for studies at BUT. These will be directed both towards secondary school students themselves and towards teachers and school management representatives. The activities will be implemented both at the central level and at the level of faculties and university institutes of BUT. The project was approved at the end of 2024, and the preparation and implementation of individual activities will commence from 2025 and continue for the following four years.

The traditional meeting with secondary school headteachers took place this time at the BUT Rector's Office and was attended by over twenty secondary school representatives. In addition to the presentation of the university as a whole, they were introduced to the range of activities for secondary schools, updates in the field of study, and there was also a discussion. At the conclusion, interested parties could view selected projects from the faculties and university institutes of BUT.

The individual faculties and university institutes of BUT also have close cooperation with secondary schools. They organise professional competitions and conferences for individuals and teams from secondary schools and offer lectures and workshops for schools. Each year, BUT participates in the secondary school professional activity with a diverse range of topics. Some faculties and university institutes of BUT also offer summer schools; for instance, the FIT BUT Summer Computer School, exclusively designed for girls, has a long-standing tradition.

Programme for Primary and Secondary School Students

In 2024, BUT continued its previous partnership with FabLab University. Through a shared workshop, the project provides practical education in digital manufacturing technologies to students of partner and special interest primary and secondary schools not only in the South Moravian Region. Pupils and students can learn the latest information about modern manufacturing and prototyping and also try out all the machines, such as 3D printers, milling machines or electron microscopes, and produce something on them. In 2024, the FabLab lorry was also part of BUT's presentation at the Kopřivnice Technology Days. A new feature was the use of the lorry at the Gaudeamus Fair as part of BUT's presentation. The faculties and university institutes of BUT prepared thematic workshops for selected schools.

BUT Junior is a project for pupils of the second grade of primary schools and students of lower years of multi-year grammar schools. Its aim is to familiarise pupils with the BUT environment, modern technologies, the latest findings from scientific activities at BUT and to positively develop pupils' interest in technical fields and creative activities. Project activities take place at faculties and university institutes of BUT, which take turns in organising lectures so that BUT Junior participants visit as many university workplaces as possible during the academic year. Participants will meet a total of ten times during the academic year. At the beginning of the programme, a ceremonial matriculation is held, and upon completion of their studies, participants receive a diploma at a graduation ceremony. In the academic year 2024/2025, the programme capacity was 100 pupils, with one additional faculty joining the programme compared to previous years. A new programme was also prepared for parents, allowing them to familiarise themselves with the teaching facilities and current topics being addressed at the faculties and university institutes of BUT.

7 Employees

7.1 Career Code for Academic Staff and Motivators for Employee Remuneration

In December 2024, Guideline No. 15/2024 – Career Rules BUT was issued. The Career Rules BUT establish principles of employee career development, specify conditions and motivational elements of career development, regulate conditions for filling academic and research positions, and employee evaluation. The Rules define 4 basic career paths: academic, scientific-research, technical-administrative, and manual labour, whereby career progression is enabled both horizontally (change of career path) and vertically (advancement within the same career path). For academic positions, recommended tenure periods are established to motivate progression whilst contributing to quality management.

The Career Rules also regulate the employee evaluation process and introduce regular assessments across all BUT workplaces. The electronic SHAP system is used for the evaluation of academic and research staff. For the evaluation of technical-administrative and manual labour positions, an evaluation form may be utilised. The evaluation results may then serve as a basis for, e.g., remuneration, extension of employment, or setting career development plans. Non-monetary forms of employee recognition (social/psychological) shall continue to be utilised as well.

The motivational tools also include the awarding of medals and the BUT Rector's Awards. In 2024, in connection with the celebrations of the 125th anniversary of BUT's foundation, 7 gold, 9 silver and 9 commemorative medals and 1 honorary mention were awarded to current and former university employees. Based on the results of the student voting competition, the best teachers in Bachelor's and Master's studies from individual faculties and university institutes of BUT were also awarded. From among academic and research staff, authors of the best scientific outputs were awarded in a total of 10 evaluated categories. The recognition of the best teachers and authors of scientific outputs included financial remuneration.

7.2 BUT Staff Development and Training

In 2024, a revision of the employee education system was carried out. Through CECC BUT, educational activities were implemented targeting the following areas: health, IT skills, legislative changes related to employee work performance, and language skills. Some faculties and university institutes of BUT offered courses to employees on current topics of university security and wellbeing support.

BUT has also joined the OP JAC Next Generation BUT project – Improving the Quality and Relevance of Education at BUT, which will be implemented from January 2025. Within this project, educational events are planned to support wellbeing, adaptation of new employees, professional and soft skills competencies of academic staff, professional competencies of senior staff and university body members, and returns of employees after career breaks.

8 Internationalisation

8.1 Support for Participation of Students and Staff in Mobility Programmes Abroad

Internationalisation at Brno University of Technology is being developed particularly through the involvement of students and staff in international mobility programmes, which contributes to increasing the competitiveness of both the university and its graduates in the labour market. Participation in foreign study stays, professional internships, summer and winter schools or other mobility activities provides participants with valuable experience that broadens their academic and professional horizons. International mobility is a key element in building students' careers, as it contributes to their ability to adapt in a global environment and provides them with a competitive advantage in the labour market, where international experience is increasingly valued.

Erasmus+ is among the most widely used programmes enabling study stays and professional internships. In the 2020–2027 programming period, the main priorities are inclusion and diversity, promoting equal opportunities and overcoming barriers that may hinder students' and staff's participation in mobility, such as health disadvantages or social and economic obstacles. The Department of Internationalisation of the BUT Rector's Office (DI RO BUT) therefore established cooperation with the Alfons Counselling Centre in 2024. Through this cooperation, students with specific needs or other barriers are better informed about the possibilities of international mobility and assistance that the Alfons Centre or Erasmus+ office can offer them. In 2024, work also began on developing the Concept of Inclusion Support in the Erasmus+ programme at BUT. Another priority is the digitisation of processes related to the planning and implementation of mobilities, which BUT is systematically working on.

Within the Erasmus+ programme, in addition to traditional mobilities in the form of study stays and practical traineeships, there is also a form of combined intensive programmes, known as Blended Intensive Programme (BIP), which combines physical and virtual mobility. This model facilitates participation in mobility activities even for those who would otherwise face obstacles in completing a traditional stay abroad. BUT actively participates in the BIP programme with the aim of fostering cooperation between higher education institutions, enabling knowledge sharing and developing innovative teaching methods using digital technologies. As of 2024, the Erasmus+ programme also implements monitoring visits of academic or administrative staff at partner institutions. The purpose of these visits is to enhance the quality of implemented mobilities, particularly with regard to recognition and outcomes. The implemented monitoring visits also provide scope for deepening existing cooperation.

BUT is also active in the field of Erasmus+ international mobility, where mobilities outside EU member countries are enabled for both BUT students and BUT staff. The number of this type of mobility is determined by the total budget for the given project and is available in the table below.

This year, DI RO BUT further contributed to the development of the Erasmus+ programme, primarily focusing on improving the quality and strategic impact of mobilities. Unified central qualification and selection criteria for student and staff mobilities have been adopted to ensure transparency of the entire process. Furthermore, a unified definition of mobility at BUT was adopted, and the utilisation of inter-institutional agreements was monitored for strategic decision-making purposes in the renewal of these agreements and ensuring balanced mobility flows from both parties.

In addition to the Erasmus+ programme, BUT students and BUT staff have the opportunity to participate in other mobility programmes that are not directly administered by BUT, but are organised by external entities. DI RO BUT provides information about these programmes and methodological support to faculties and university institutes of BUT, other university departments and students themselves. The most frequently used external programmes include CEEPUS (Central European Exchange Programme for University Studies), AKTION (support for mobility between the Czech Republic and Austria), Academic Information Agency scholarships and others. Individual international mobility in the Freemover format is another option, whereby Freemover enables students to travel abroad outside standard programmes.

Through the international student organisation IAESTE, students can undertake professional internships abroad. They can also take advantage of the offer from BEST Brno, which provides courses focused on developing technical skills in an international context.

In 2024, the BUT Scholarship and Partnership Programme for Excellence continued, aimed at supporting bilateral mobility of top academic and scientific staff, excellent students and supporting participation in prestigious international events and competitions.

In 2024, BUT obtained the project ESF + Next Generation BUT, Improving the Quality and Relevance of Education at BUT. Thanks to this project, the quality of long-term international professional internships for students will be enhanced, as one of the project outputs is the development of methodology and implementation of long-term international professional internships for talented doctoral students.

A detailed overview of mobilities carried out in 2024 is provided in the following tables.

Table 3: Numbers of BUT students going abroad according to mobility programmes

Mobility programme	Number of mobilities
AKTION	15
CEEPUS	10
Erasmus+ graduate traineeship	22
Erasmus+ practical traineeship international mobility	14
Erasmus+ traineeship	96
Erasmus+ short-term traineeship	48
Erasmus+ study mobility	305
Erasmus+ short-term study mobility	81
Erasmus+ international study mobility	6
Excursion – Development programme of the Ministry of Education, Youth and Sports	23
PPSŘ Excursion	219
PPSŘ	87
Excellence programme	11
Summer school	5
Other/not specified	66
TOTAL	**985**

Table 4: Numbers of BUT outgoing staff abroad under the Erasmus+ programme

Type of mobility	Number of mobilities
Erasmus+ staff training	201
Erasmus+ teaching mobility	103
Erasmus+ teaching mobility international credit mobility	2
Erasmus+ staff training international mobility	6
Erasmus+ teaching mobility international mobility	3
TOTAL	**315**

Table 5: Numbers of incoming students from abroad at BUT according to mobility programmes

Mobility programme	Number of mobilities
AKTION	1
CEEPUS	8
Erasmus Mundus	3
Erasmus+ traineeship	20
Erasmus+ study mobility	583
IAESTE practical traineeship	12
Other form of short-term study mobility	93
Other EU programme	9
Self-funded short-term study mobility	16
TOTAL	**745**

Table 6: Numbers of incoming employees from abroad at BUT according to mobility programmes

Mobility programme	Number of mobilities
AKTION	7
CEEPUS	12
Erasmus+ staff training	27
Erasmus+ international credit mobility teaching	1
Erasmus+ teaching mobility	32
Erasmus+ study mobility	3
Erasmus+ international work placement	4
Other/not specified	115
Other EU programme	62
International visit	20
Workshop	26
Invited lecture	15
Conference	34
PPSŘ	18
Excellence programme	2
Internship	6
University/faculty scholarship	1
TOTAL	**385**

ESN BUT is a key organisation that provides support to international students before their arrival and throughout the semester. From 2024, the organisation no longer focuses solely on exchange students but has expanded its support to international students at BUT as a whole, including full-degree students. At the beginning of each semester, DI RO BUT, in cooperation with ESN BUT, organises a Welcome Week, which aims to help international students navigate the university and city of Brno environment and provide them with important information not only about their studies but also about practical aspects of their stay, including cultural specifics. A new addition in 2024 was the organisation of Orientation Day, which specifically targeted newly arriving international students in both English and Czech study programmes.

DI RO BUT communicates with international students primarily through the Admission Office, which is part of this department and focuses on both newly arriving and current international students across all faculties and university institutes of BUT. The Admission Office provides a wide range of services for international students, from assistance with obtaining residence permits, help with accommodation arrangements to other practical matters related to studying at BUT. Among other things, the Admission Office communicates with international students through a Newsletter published in English.

The ambassador network, which involves international students at BUT, is an important tool for communication with and recruitment of international students. In 2024, this network underwent a review and update aimed at its further development and the creation of a communication strategy in cooperation with the Marketing Department of the BUT Rector's Office (MD RO BUT).

In 2024, DI RO BUT also established closer cooperation with the Brno Expat Centre, which has newly focused on providing services for international students in Brno. Among other things, this organisation provides free legal services and other counselling to students.

BUT actively promotes students' interest in international experience through various activities, including the Spring Mobility Fair, Mov'in Europe events, events of faculties and university institutes of BUT, and others. The pandemic has demonstrated the advantages of online formats for some of these activities, which allow reaching a broader audience than traditional physical events. Regular online live sessions and social media takeovers are held where students who have completed stays abroad share their experience, including administrative preparation and other practical aspects. DI RO BUT annually organises a photo competition for BUT students who have participated in international mobility in any programme during the given academic year. In 2024, the photo competition bore the subtitle FUTURE – EXCELLENCE – TECHNOLOGY, with the theme being chosen in connection with BUT's 125th anniversary celebrations. The photo competition included an awards ceremony and exhibition opening.

Brno University of Technology also focuses on improving conditions for the recognition of courses completed abroad, thereby supporting the completion of studies within the standard timeframe without the need for extension. This is governed by the Guideline regulating the rules for course recognition. Within the EULiST university alliance, there are independent teams dedicated to addressing the recognition of courses completed abroad. DI RO BUT simultaneously strives to reduce the administrative burden for both students and staff, as well as for faculties and university institutes of BUT. BUT is also involved in the Erasmus Without Paper (EWP) initiative, supported by the European Commission, aimed at digitalising administrative processes associated with mobilities within the Erasmus+ programme.

8.2 Support for Further Mobility of Employees Abroad

As with student international mobility, the Erasmus+ programme is most frequently utilised for staff mobility as well. However, this is not the only mobility programme used by BUT staff. Other mobility programmes utilised, as with students, include AKTION and CEEPUS programmes. To diversify the range of mobility opportunities for both staff and students, the Concept for Development of Additional Mobility Programmes at BUT was adopted in 2024. DI RO BUT provides employees with information and methodological support in searching for and implementing these additional opportunities in the field of international mobility.

The support was focused on internal dissemination of the European University EULiST, which BUT also communicated through the EULiST Day event, during which EULiST was presented both as a project and as an alliance. Students and employees of BUT were familiarised with the project content as well as with opportunities for mobility support and interconnection with individual partner universities. For instance, the compatibility matrix of EULiST universities was presented for individual faculties and university institutes of BUT. The event was supported by visits from partners from the Slovak Technical University in Bratislava, Vienna University of Technology and Leibniz University Hannover.

In order to support excellent mobility programmes in 2024, the aforementioned BUT Scholarship and Partnership Programme for Excellence continued, which supports, inter alia, the mobility of excellent scientific and research staff.

8.3 Integration of Foreign Members of the Academic Community

BUT strives to develop excellence through the involvement of international scientific and academic staff. A key element of the university's internationalisation is the integration of these experts into the academic environment, which contributes to strengthening international cooperation and increasing the number of international staff working at BUT. In this context, the central Welcome Service plays a significant role, which is in accordance with the BUT Strategic Plan Implementation Schedule for 2024. The Welcome Service functions as the main support centre for international academic and research staff, providing counselling and assistance both prior to their arrival and during their stay. It offers comprehensive support not only to individuals but also to their family members, particularly those originating from third countries. In cooperation with EURAXESS, it provides assisted appointments at the Department of Asylum and Migration Policy of the Ministry of the Interior of the Czech Republic and at the Foreign Police Department Brno. As part of its Internationalisation Strategy, BUT supports the integration of foreign experts into academic life and the development of the international scientific community. Therefore, the university continues its close cooperation with the South Moravian Regional Centre for Foreigners as well as with the Brno Expat Centre.

8.4 Activities Strengthening Internationalisation

In 2024, BUT intensified its activities in the field of strengthening internationalisation. The European University Alliance EULiST project celebrated its first year of existence, and BUT was the main organiser of its annual meeting – the EULiST General Assembly, which was attended by 120 participants from ten partner universities of the alliance. The General Assembly programme included a plenary session, during which the election of the new alliance president took place. The position was assumed by BUT Rector Ladislav Janíček, and BUT thus became the leader of the European university EULiST for the next two years. In autumn 2024, BUT representatives visited the Rector and President of EULiST partner institutions – LUT University and Jönköping University.

BUT actively establishes and strengthens partnerships with renowned foreign universities and research institutions. This cooperation encompasses mobility programmes, joint research projects, exchange programmes and knowledge sharing. In establishing and deepening cooperation, BUT focuses on strategic territories, whereby the Manual for Evaluating Strategic Territories at BUT was created, which maps strategic territories with regard to the type of cooperation in question. When concluding or extending international agreements (Memorandum of Understanding), BUT follows the Methodology for Concluding International Agreements. The existing contracts at both university-wide level and the level of faculties and university institutes of BUT are then available on the BUT website, where the data is directly transcribed from the BUT information system upon entry of the respective agreement.

Within the EULiST project, other activities are taking place aimed at fulfilling the project's objectives and outputs. BUT specifically focuses on the areas of Student Engagement, development of the EULiST Digital Campus, calculation of carbon footprint at EULiST campuses, recognition of education at partner universities within EULiST, and science communication within and outside the alliance. To fulfil these activities, BUT has undertaken numerous trips abroad to EULiST partner universities, particularly to Leibniz University Hannover in Germany, University of Rey Juan Carlos in Madrid, Institut Mines Telecom in Albi, Slovak University of Technology in Bratislava, and Vienna University of Technology.

The university also actively supports student involvement and mobility within EULiST, particularly through their participation in activities within the EULiST Student Board, the student body within the project. BUT participated in organising and materially supported the historically first EULiST Student Conference in Vienna, where it sent 14 of its representatives.

BUT is also engaged in activities of the CESAER network, a prestigious network of European technical and research universities. In 2024, BUT hosted the meeting of the CESAER Task Force Learning & Teaching. The meeting focused, among other things, on the future of technical education and the issues of European university alliances. Moreover, BUT succeeded in securing the hosting of the CESAER Annual Meeting in 2025 and will thus organise the annual meeting of this network. BUT is involved in the European University Association (EUA) network, where it regularly participates in thematic meetings and events.

In the field of international cooperation, BUT deepened collaboration with partners outside the European Union, particularly with universities focusing on BUT's strategic areas, such as semiconductors or nuclear energy. In autumn 2024, BUT and the South Korean KEPCO International Nuclear Graduate School (KINGS) organised the second forum of rectors, professors and experts from universities of the Visegrad Four (V4) countries and the Republic of Korea focused on nuclear energy.

In the area of cooperation between Erasmus+ programme countries, BUT organised the 10th Staff Week for employees of international departments from partner institutions. The theme of this year's event was current challenges faced by International Departments across Europe. The discussed topics included, among other things, inclusion, digitalisation, intercultural communication and potential use of artificial intelligence. Representatives from 10 foreign institutions participated in the 10th annual Staff Week.

Currently, BUT has 158 agreements concluded at the university-wide level and an additional 120 at the level of faculties and university institutes of BUT. BUT has also concluded 726 agreements within the Erasmus+ programme with partners not only within the European Union but also with partners with whom it implements, for example, International Credit Mobility.

The year 2024 was also successful for BUT in terms of internal internationalisation and professionalisation of data management. The first phase of the digitalisation project for the Erasmus+ selection procedure was completed, as well as the strategic project for implementing a management information system in the context of mobility records and evaluation at BUT, which had a significant impact on improving mobility records at BUT. In the context of mobility records, Methodical Directive No. 2/2024 has been created, which defined mobility at BUT. Thanks to this progress, it is now possible to plan sustainable development of mobilities at BUT. Within the internal internationalisation projects, the project of implementing the withdrawal of applications to English study programmes has also been completed, the main aim of which was to simplify the administration in relation to applicants who are no longer interested in studying at BUT.

BUT was active in international professional fairs in 2024. Specifically, it was represented at the Asia-Pacific Association for International Education 2024 (APAIE 2024), the National Association of Foreign Student Advisers 2024 (NAFSA 2024) and the European Association for International Education 2024 (EAIE 2024). During these fairs, contacts and relationships with BUT's existing partners are strengthened, and new strategic contacts are established. The deepening of relationships subsequently leads to personal meetings. In 2024, BUT received numerous delegations, including a delegation from National Yang Ming Chiao Tung University (Taiwan), a delegation from Taiwan Semiconductor Research Institute (Taiwan), a delegation from the Dnipropetrovsk region (Ukraine), a delegation from KINGS University (Korea), and a delegation from the UAAT alliance (Taiwan).

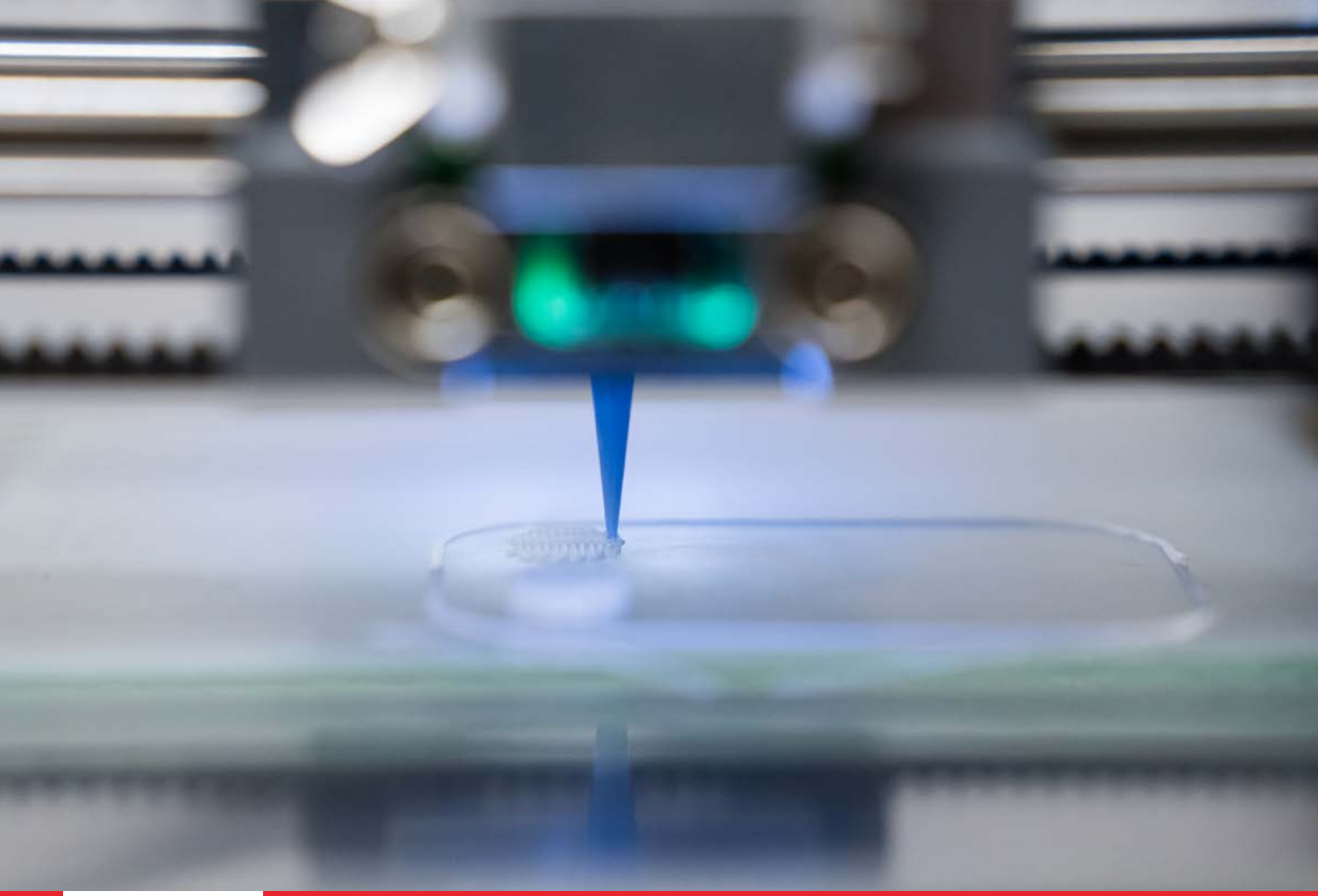
BUT was also visited by the ambassadors of Slovakia, South Korea, Japan, the USA and Panama in 2024. Discussions with university management representatives, and in many cases also with BUT faculty and university institute representatives, focused on intersecting areas of interest between individual countries and BUT. These initial visits were followed up on, for example, by organising an event focused on supporting nuclear energy, The 2nd V4-ROK University Presidents Forum. BUT plans to remain active in receiving ambassadors; further visits are planned for 2025.

8.5 Virtual and Combined Mobility

Virtual and combined mobility represents modern forms of international cooperation which are increasingly becoming part of university education. Virtual mobility enables students to complete educational activities of foreign institutions online without leaving BUT. At present, however, the university prioritises physical mobility and virtual programmes are not actively utilised.

For those who cannot participate in long-term mobility, BUT offers the opportunity to engage in the Blended Intensive Programme (BIP) format. This programme combines virtual and physical components and is conducted in cooperation with three universities from three different programme countries. Its aim is to strengthen international cooperation between higher education institutions through jointly created programmes focused on education, professional training and exchange of experience between students, academics and administrative staff. BIP supports innovative teaching approaches and the use of digital tools, whilst facilitating the sharing of good practice, improving presentation skills and simultaneously saving time and financial costs.

BUT is actively engaged in developing virtual and combined mobility also within the European University EULiST, where it cooperates with nine international partners. These relatively new forms of mobility offer great potential for expanding international connections and can provide students, academic, research and administrative staff with valuable experience in international cooperation across various fields.



9 Scientific, Research, Artistic and Other Creative Activities

9.1 Strengthening the Link Between Creative and Educational Activities

BUT consistently strives to closely integrate educational activities with current research and development. Education at BUT is systematically developed in connection with the latest scientific findings and responds to current social and technological challenges.

With the aim of mapping and utilising synergies across faculties and university institutes of BUT, the university has focused on identifying more than 20 strategic inter-faculty specialist areas that interconnect research and pedagogical activities across departments. For each area, a list of research activities has been compiled, contact persons have been designated, and a coordinator has been appointed to ensure better orientation and promote effective cooperation, both within the university and with external partners.

This systematic approach enhances the transparency of BUT's scientific research capacities, facilitates the establishment of new partnerships, and creates conditions for implementing joint projects, whether within grant schemes or in the form of contractual research.

New interdisciplinary study programmes also play an important role, linking cutting-edge research with labour market needs. For instance, in 2024, follow-up Master's degree programmes in Chip Design and Modern Semiconductor Technology (cooperation between FEEC BUT, FME BUT, CEITEC BUT) and Nuclear Power Engineering (cooperation between FEEC BUT, FME BUT, FCE BUT and FCH BUT) were accredited. These programmes respond to the growing demand for highly qualified specialists whilst effectively utilising the capacities of individual faculties and university institutes of BUT for teaching, research and cooperation with industrial partners.

To support this cooperation and the quality of decision-making in research, development, innovation and education, BUT has established an Industry Council BUT as an advisory body to the BUT Rector. Its aim is to strengthen ties between the academic and application spheres and to create an environment conducive to knowledge transfer.

Through this comprehensive approach, BUT actively develops interdisciplinary cooperation, supports excellent research and contributes to producing graduates who are prepared to face real challenges of contemporary society.

9.2 Involvement of Bachelor's and Follow-up Master's Degree Students in Creative Activities

All students of Bachelor's, and particularly Master's and Doctoral degree programmes, are involved in creative activities within their final theses. At individual faculties and university institutes of BUT, they may also participate in various types of research, development and artistic projects.

Students of follow-up Master's and Doctoral programmes have the opportunity to participate in the Student Grant Competition within the framework of specific university research at BUT. This competition supports independent creative activity of students in collaboration with academic staff in the field of research and development. The projects enable students to engage more deeply in professional activities, primarily through team research and development activities at faculties and university institutes of BUT. Annually announced grants within student-specific research contribute to increasing the quality and efficiency of scientific, research and artistic work. They support the development of interdisciplinary fields in doctoral and master's studies, strengthen international cooperation and contribute to the publication of results.

Grants are financed from targeted support of the MEYS. In 2024, a total of CZK 73,004,270 supported 137 projects, of which 67 were junior projects (including 20 inter-faculty projects) and 70 standard projects. The main objective of inter-faculty projects is to promote interdisciplinary cooperation at BUT and to make optimal use of new equipment, technology and infrastructure. The results of the projects are defended at each faculty and university institute of BUT at a student conference organised at least once a year. Assessors are from the ranks of BUT professors and associate professors, but experts from practice are also represented in the committees. These are mainly from companies with which BUT has established long-term cooperation or with which BUT graduates find employment. Student conferences are an opportunity for students to present their level of knowledge, creativity and research teamwork. In 2024, faculties and university institutes of BUT organised or participated in the organisation of eight student conferences. These included the Juniorstav, SVOČ and WTA DAYS 2024 conferences intended for all civil engineering students, the Student EEICT 2024 conference focused on electrical engineering, information and communication technologies, Excel@FIT 2024

in the field of information technology, Chemistry is Life 2024 in the field of chemistry, the Faculty Doctoral Conference for presenting results of specific university research projects FFA 2024 at FFA BUT, and Junior Forensic Science (JuFoS) 2024 for forensic engineering students.

Among the examples of excellence achieved with the support of specific research funds, notable scientific publications in impact factor journals and contributions to prestigious international conferences can be included, as well as the European Patent EP4039893B1 for Astacus technology.

A significant advantage of studying at BUT is the opportunity to actively participate in addressing current research topics in cooperation with industrial partners. Companies often come forward with proposals for bachelor's and master's thesis topics and provide professional guarantors who guide students through the process of completing their final theses. At some faculties and university institutes of BUT, industry professionals actively participate in teaching, organise thematic seminars, excursions or offer student internships.

The development of student entrepreneurship is supported by the university innovation and entrepreneurial ecosystem contriBUTe. This includes, among others, the Go to Business! project, which recognises and develops student business ideas. In 2024, students again had the opportunity to participate in courses and workshops focused on personal development and building their own business, or they could use individual consultations to develop their project. More information about the contriBUTe ecosystem is provided in Chapter 9.6.

The creativity and professional level of creative activities of bachelor's and master's programme students at BUT is regularly reflected in successes in prestigious competitions at both national and international levels. In 2024, numerous students ranked among the best in the Werner von Siemens Award, particularly in the Best Master's Thesis category. Michael Foltýn from FME BUT (now CEITEC BUT) took third place with his Master's thesis on the topic of plasmonics of non-noble metals. Among the award recipients were also Dominik Hrůza from CEITEC BUT (6th place), Ondřej Štefek from FME BUT (7th place), and Michaela Hošková from FME BUT together with Valentina Hrtoňová from FEEC BUT, who shared 11th–15th place. In the thematic section focused on smart infrastructure and energy, Jakub Rigby (FME BUT) succeeded in shared second place, Enas Al Halabi (FEEC BUT) in fifth place, and Marek Patočka (FME BUT) in 7th place.

Michaela Hošková also received a significant award, namely the Minister of Education, Youth and Sports Award for Outstanding Students and Graduates. In the international project Graduation Projects 2024, Kateřina Kiliánová (FME BUT) attracted attention with her design of ARtiGEE mobile X-ray unit, intended for examinations outside radiological departments. Dominik Rabatin from FBM BUT won the 6th annual Atlas Copco Services Award for the best economic master's thesis, impressing the jury with his work on a myocardial infarction prediction model.

Four students were awarded the Josef Hlávka Award for talented students under 33 years of age for their exceptional academic achievements: Jakub Koláček (FCH BUT), Nikola Musilová (FEEC BUT), Jan Raisinger (FCE BUT) and Tomáš Janoušek (FME BUT). The Special Professor Daniel Mayer Award, granted through the Hlávka Foundation to the best students of electrical engineering faculties, was awarded to Matej Grega from FEEC BUT for his bachelor's thesis.

A comprehensive list of our award-winning students can be found in the Achievements and Awards section at the beginning of the Annual Report on the Activities.

9.3 Targeted Funding for Research, Development and Innovation Received in 2024

In 2024, BUT received a total of CZK 2.3 billion in R&D support, including CZK 0.6 billion in institutional R&D support and CZK 1.7 billion in targeted support for R&D projects in current and capital funds. Out of the total amount of earmarked grant for R&D projects, CZK 1,041 million was obtained as principal investigator and CZK 677 million as co-investigator.

As part of the cooperation on the projects, BUT transferred CZK 375 million to the partners. The largest share is accounted for by grants obtained within the framework of projects of the MEYS, TA CR, GA CR, and the Ministry of the Interior.

9.4 Support for Doctoral Students and Staff in Post-Doctoral Positions

Various courses were implemented at the faculties and university institutes of BUT for doctoral students focused on supporting competencies, for example in the field of scientific publishing, research data management, etc.

In 2024, the FCE BUT Library Information Centre organised practically oriented courses for early-career researchers entitled Scientific Publishing A-Z and Research Data Management, in which doctoral students and young researchers acquired fundamental knowledge for their scientific research activities.

At FCH BUT, a new two-semester course for doctoral students entitled "Fundamentals of Scientific and Professional Work in Chemistry" was established in September 2024, focusing on developing key competencies that doctoral students need for successful completion of their studies and building their scientific careers (e.g. scientific methodology, basics of scientometrics, editorial practice, and ethics in scientific work, etc.).

Another suitable example is the project preparation course entitled Project Opportunities for Young Scientists + Mobility at FME BUT.

In 2024, BUT doctoral students actively participated in various projects focused on advanced technologies and research. For instance, at the Department of Control and Instrumentation of FEEC BUT, a project focused on cybernetics, robotics, artificial intelligence, automation and measurement was conducted. This project supported the research activities of students in the doctoral programme in Electrical Engineering and Communication Technology. Another significant project was the support of research and development activities of doctoral students and young researchers at the Department of Telecommunications and Power Engineering of FEEC BUT. This project focused on areas such as unmanned aerial vehicles, Industry 4.0, metrology and measurement, circuit solutions and sensors.

A competition to support specific research projects for the year 2024 has been announced within FFA BUT. This competition enabled doctoral students to obtain financial support for their research projects.

As part of the support, doctoral students and post-doctoral researchers can fully utilise the services of CECC BUT, where they can participate in various courses or seek psychological counselling as part of their wellbeing development. Doctoral students primarily use the psychological counselling service within the BUT Counselling Centre. Furthermore, doctoral students utilise the professional-personality profile assessment service for the purpose of deeper self-knowledge (mapping personality, motivation, stress management methods, etc.). Students may use the services of the Alfons centre, which provides counselling and support services to applicants and students with specific needs. Sport is a significant component of both doctoral students' studies and leisure activities. Students can choose from a wide range of sports courses offered by CESA BUT or use the modern equipment of the extensive sports facilities complex in their free time.

Activities aimed at engaging doctoral students across faculties and university institutes of BUT have been strengthened. The Ph.D. Day serves as an example. The second annual event was held at the Faculty of Mechanical Engineering on 3 November 2024, organised by CS AS BUT. Around 90 doctoral students gathered here from across all faculties and university institutes of BUT. The discussed topics included updates to the Higher Education Act and the forthcoming reform of doctoral studies, gender and scientific outcomes, social security, international university exchanges, project opportunities for young scientists, wellbeing – mental hygiene, etc. In view of the very positive feedback from doctoral students, continuation of this activity is being considered. Some of the activities also took place directly at the faculties and university institutes of BUT. As an example, one can mention a meeting at FEEC BUT with students interested in doctoral studies, where the Open Science Day event took place, where students were introduced to R&D areas.

Furthermore, BUT hosted a meeting of the consortium of universities involved in the PPRO project under the leadership of Charles University, focused on preparing the implementation of doctoral studies reform for 2024–2025. This meeting provided a platform for sharing best practices in doctoral studies among the participating universities. In addition to the consortium meeting held at BUT, regular online meetings were held with representatives of individual universities in three working groups – legislation, support and quality, as well as within round tables and other consortia at Charles University, Czech University of Life Sciences Prague and Czech Technical University.

The quality of the work of doctoral and post-doctoral students is also evident from the fact that many of them received awards for their work in 2024.

BUT representatives achieved significant success in the Werner von Siemens Award, where three doctoral theses were awarded. The award for Best Doctoral Thesis on Industry 4.0 was received by Roman Parák, a graduate and external lecturer at FME BUT, for his work focused on the design of advanced methods in industrial robotics. In the Smart Infrastructure and Energy category, Jan Koudelka from FEEC BUT won with his doctoral thesis on Stability in Modern Electrical Networks. In the main category of Best Doctoral Thesis, Ondřej Wojewoda from CEITEC BUT also placed 8th.

A total of eight doctoral students from BUT succeeded in the prestigious Brno Ph.D. Talent scholarship programme, ranking among the 25 best young scientists in Brno. The awardees were: Michael Foltýn, Tereza Havlíková and Jiří Kabát (CEITEC BUT), Michal Hečko and David Chocholatý (FIT BUT), Jan Kramář and Vít Šimara (FME BUT), and Dominik Klement (FEEC BUT).

Ondřej Wojewoda from CEITEC BUT also received the Josef Hlávka Award for outstanding academic achievements and exceptional contribution in the field of laser spectroscopy.

The significant overlap of doctoral activities into the field of art and science popularisation is also evidenced by the success of students Jiří Žák and Matěj Pavlík from FFA BUT, whose film was declared the best Czech experimental work at the Ji.hlava International Documentary Film Festival.

BUT doctoral students were also very successful in scientific competitions organised by the French Embassy in the Czech Republic. In the Joseph Fourier Prize competition, Juraj Síč (FIT BUT) won 1st place for research on methods using finite automata, and Karel Beneš (FIT BUT) won 3rd place for work focused on language models for speech recognition. Ondřej Cejpek from FME BUT was awarded 2nd place in the Make Our Planet Great Again competition, which recognises the best doctoral theses in climate and environmental research, for his work on Spray Interaction with Surrounding Flow.

9.5 Cooperation with the Application Sphere on the Creation and Transfer of Innovations and Their Commercialisation

The mission of Departments of Knowledge Transfer across faculties and units of BUT is not only to protect intellectual property but particularly to connect academic and application spheres. The Department of Knowledge Transfer assists with ensuring legal protection of intellectual property, provides methodological and administrative support for commercialisation, and serves as a point of contact for those interested in establishing start-up and spin-off companies.

In 2024, researchers at BUT reported 41 new employee inventions. The total number of registered employee inventions at BUT as of 31 December 2024 was thus 875. Eleven patent applications were filed, including three filed abroad, and thirty-four utility model applications were submitted. In the monitored year, patent offices granted BUT seven patents in the Czech Republic, seven patents abroad, and registered thirty-five utility models, of which one was registered abroad.

40 licence agreements were concluded, of which 7 were with foreign partners. Newly concluded agreements brought the university income of approximately CZK 10 million. The total number of valid licence agreements as of 31 December 2024 is 107, with software predominating among the licensed R&D results.

In cooperation with commercial partners, 234 projects were created within the Technology Agency of the Czech Republic (TA CR), of which 74 were successfully accepted and 47 were still pending.

BUT succeeded in the TA CR Sigma programme with the project called Acceleration of proof of concept support activities at BUT. The main objective of the project is to develop and accelerate BUT's activities in supporting the commercialisation of R&D results, particularly those results where no specific method of commercialisation is defined and which have been hitherto overlooked within the commercialisation system. The project implementation commenced in 2024 with the preparation of the 1st round of competition and the announcement of the 1st call. Further calls will follow in the period 2025–2028.

In April 2024, BUT hosted the 11th National Transfer Conference, which focused thematically not only on the reform of knowledge transfer in the Czech Republic but also on opportunities and conditions for transferring scientific results into practice. The two-day conference offered 130 registered participants several discussion panels focused on support for spin-off companies, support for the product phase of technologies, and opportunities for cooperation between transfer offices and other innovation institutions.

At the end of 2023, the Industry Council BUT was established, and thus its first meeting took place in 2024. BUT has thereby created a communication interface to support quality management and decision-making in the areas of study and education, research, development, innovation and other creative activities, as well as knowledge transfer. The Industry Council BUT consists of representatives from major employers and industrial partners.

In 2024, four new start-ups were established at BUT:

- TechMountain, s.r.o., Fuel Flow Measurement, June 2024
- BIOM research project, s.r.o., Vision and Solutions for Cities of the Future, August 2024
- MaNoSens, s.r.o., Energy Consumption Optimisation, August 2024
- Forenzio, s.r.o., Expert Activities in Construction, December 2024

In total, BUT now has six start-ups and eight spin-offs. As of 2024, the presentation of these companies is newly available on BUT's updated knowledge transfer website in both Czech and English versions.

9.6 Support for Horizontal (Cross-Sectoral) Mobility and Education Aimed at Developing Competencies for Innovative Entrepreneurship

BUT has been consistently supporting innovative entrepreneurship through education, cooperation with industrial partners and development of entrepreneurial competencies. A key pillar is the contriBUTe ecosystem (https://www.vut.cz/contribute), which inspires, educates and connects students and employees to transform their ideas into tangible benefits for society.

Main activities in 2024:

- Representatives from the BUT academic community and the South Moravian business ecosystem discussed during the round table entitled Why (Not) Build Silicon Valley? the following questions: How does Silicon Valley differ from "the rest of the world"? What are the implications for the Czech Republic, for Brno, for BUT? What are the basic operational parameters of entrepreneurial ecosystems and centres at American universities? They agreed that the academic environment, particularly at technical universities, plays a significant role as an initiator and incubator of entrepreneurial activities. Not only does it support the transfer of research and development results of academic and scientific staff, but it also develops the creative potential of students. This significantly contributes to the development of the entrepreneurial ecosystem in its vicinity.
- During the winter semester 2024–2025, Michael Goldberg, Executive Director of the Veale Institute for Entrepreneurship, Case Western Reserve University in Cleveland (CWRU), in collaboration with Associate Professor Chlebovský from FBM BUT, focused closely on the entrepreneurial ecosystem of the South Moravian Region. Representatives of institutions actively supporting entrepreneurship in South Moravia gradually participated in individual thematic seminars. Students at CWRU and BUT gained a good understanding of the common features and differences between the functioning of the regional entrepreneurial ecosystem in Cleveland and Brno.
- The Innovation and Entrepreneurial Festival 2024 offered topics developing entrepreneurship at BUT. The partner was, as in the previous year, the Finnish Tampere University of Applied Sciences, and particularly its unit Proakatemia, dedicated to entrepreneurial education. In 2024, the festival focused on the following topics: Basics of marketing and finance in business, It is better to find competition before it finds you…, Effective leadership in business, Project fair, Ph.D. pitch contest, Idea development – using the lean canvas approach, Workshop – How to start a business from scratch.
- Representatives of contriBUTe actively participated in the inter-university platform University FOR entrepreneurship, which took place on 23–24 May 2024 in Zlín. As part of sharing experience and good practice, Associate Professor Chlebovský from FBM BUT presented the topic How is entrepreneurship support addressed at universities in the USA and what can be learned for Czech practice? The two-day meeting was attended by 40 representatives from Czech and Slovak universities, not only from Prague, Brno, Ostrava and Bratislava. The event presented topics based on shared research outputs for the development of entrepreneurship support at universities in the Czech Republic. The key discussions focused not only on how to integrate entrepreneurship at universities beyond optional courses and business faculties but also on how to involve students themselves in processes that accompany entrepreneurship.

  ContriBUTe also engaged in sharing experience in entrepreneurship support with partner universities of the EULiST network. Within the framework of this cooperation, there is scope for the future development of support programmes for university entrepreneurial projects at an international level.

  The Go to Business! programme, which is part of the contriBUTe ecosystem, brought numerous opportunities for students across all BUT study programmes in 2024.

– The finals of the 4th Student Entrepreneurship Award competition were held, and simultaneously, the first two rounds of the 5th year were launched. This competition promotes innovative thinking, entrepreneurial skills and motivation to implement one's own projects. Participants receive not only feedback on their business ideas but also the opportunity to verify their feasibility and network with other students across the university. The fourth year of the competition was dominated by FEEC BUT students Dominik Klement with the Volteek project and Lukáš Jablončík with the Wattee project.

  Over the past five years, more than 150 ideas have gone through the competition, with 30 ideas registered in 2024. More than 250 participants annually take part in contriBUTe programmes and activities, which are based on the EntreComp entrepreneurship competence model and practical know-how from FBM BUT and the South Moravian Innovation Centre. Thanks to this connection, as well as the connection between FBM BUT SP Entrepreneurship and Small Business Development students with ideas from other faculties and university institutes of BUT, more than 15 projects have gradually transformed into real businesses. These include, for example, MaNoSens, Plastic Guys, OMGRobotics, TechMountain, Deeper Sleeper, Duncal Technologies, Volteek, Wattee, or WIKARSKA symbiotics. Four of these projects simultaneously became BUT start-ups in 2024.

– The university-wide course Business Idea Development and Realization I was newly opened, in cooperation with the South Moravian Innovation Centre (JIC), to all students of BUT, MUNI and MENDELU, which enabled unique cooperation and experience sharing across universities in the South Moravian Region. This inter-institutional cooperation provides students with the opportunity to broaden their horizons, establish new contacts and gain inspiration from various academic environments.

– In autumn, the Business Idea Development and Realization II course was also launched as a pilot, providing students with practical skills in areas such as sales, business negotiations, intellectual property protection, fundamentals of commercial law, human resources and networking. The curriculum also includes economic business fundamentals, from cost calculation to investment evaluation and revenue streams. Students also gain an overview of start-up and spin-off company support, which paves the way for implementing their own business projects.

The Go to Business! programme thus significantly broadens students' horizons and strengthens their readiness to succeed in the business world. ContriBUTe develops, seeks, resolves, connects and creates the foundation for knowledge and technology transfer.

BUT actively contributes to the development of innovative entrepreneurship and cross-sectoral mobility through cooperation in the South Moravian Region Innovation Council, which functions as a working group of the Regional Innovation Strategy of the South Moravian Region (RIS JMK). The common objective is to strengthen the region's economic competitiveness and create innovation-based values, contributing to an increase in living standards.

Within the RIS JMK Action Plan 2021–2027, BUT's key projects funded by OP JAC were included. These projects focus on cutting-edge research that significantly influences the profiling of technical and scientific disciplines at the university. A new project has also been launched aimed at popularising STEM subjects among primary and secondary school pupils, with the objective of motivating the young generation towards technical and scientific education and strengthening their interest in innovation.

10 Significant Events Related to the Quality and Evaluation of Implemented Activities in 2024

In 2024, Brno University of Technology achieved significant progress in the field of quality, reflecting the strategic direction of the university and responding to current labour market and academic environment needs.

A key milestone in 2024 was the preparation and successful approval of the Next Generation BUT ESF+ project, which will be implemented from 1 January 2025, with completion planned for 31 December 2028. The project aims to enhance the quality and relevance of education across all levels of study – bachelor's, master's and doctoral programmes. In 2024, intensive preparatory activities were undertaken, including strategic planning and development of key measures that enabled a smooth project launch. Next Generation BUT ESF+ encompasses strategic activities focused on enhancing staff competencies, creating and developing study programmes, supporting internationalisation, and improving strategic management. A significant aspect of the project is also the support for students with specific needs and gifted students, contributing to increased inclusivity and equal access to education.

In 2024, BUT also conducted a comprehensive analysis of employer requirements, carried out by the National Training Fund. The results of this analysis provided valuable information about the competencies most in demand in the labour market, enabling effective adaptation of study programmes and strengthening cooperation with the application sphere. This approach contributes to better employability of graduates in the labour market and strengthens BUT's position as a modern, innovative and competitive university.

As part of the quality assessment of study programmes, the BUT Internal Evaluation Board conducted evaluations of study programmes, both those accredited by the National Accreditation Bureau and those directly approved by IEB BUT. An important component of quality assurance at BUT was the systematic evaluation of teaching through student feedback and surveys, which contributed to identifying key areas for further development of educational quality.

In 2024, a significant internal evaluation of science, other creative activities and doctoral studies at BUT 2024 was conducted, which forms part of the university's research environment quality control system. In 2022, BUT became a member of the CoARA coalition and thus committed to adhering to all principles set forth in the Agreement on Reforming Research Assessment. The fundamental principle of evaluating research, researchers and research organisations is primarily the recognition of the diversity of outputs, procedures and activities that maximise research quality and impact. This requires that assessment be based primarily on qualitative evaluation, for which peer review assessment is crucial, supported by responsible use of quantitative indicators. The 2024 evaluation built upon the 2023 science evaluation, which focused on assessing individual scientific disciplines and comparing them with selected European scientific institutions. The peer review evaluation was conducted at the level of individual departments (institutes), whereby the assessment of science and other creative activities was linked to the evaluation of doctoral studies (see Chapter 11.3).

In 2024, appointed representatives actively participated in prestigious conferences and professional meetings focused on educational quality, where they shared experience and drew inspiration from examples of good practice. The main events included: Educational Activities Days 2024: a national conference organised by MEYS, focused on sharing experience and innovations in higher education teaching. The conference was held at the Faculty of Architecture of the Czech Technical University in Prague, with the main theme of Learning Outcomes. Participants discussed the structure of study programmes, study workload, graduate profiles and the impact of generative artificial intelligence on university teaching. Two representatives of BUT also actively participated in this conference, including the BUT Rector, who delivered a presentation on Programme Learning Outcomes and Graduate Profile, Trends in Higher Education Studies for the 21st Century.

Another event was the 2024 European Quality Assurance Forum, an international forum focused on quality assurance in higher education, which took place at the University of Twente in the Netherlands. The forum's theme was Strengthening Education Research and Societal Engagement through Quality Assurance. Participants discussed the interconnection of quality assurance across teaching, research and the third role of universities, namely their societal engagement. The forum focused on new policies, innovative methodologies and tools that can ensure a holistic approach to quality and quality assurance.

Furthermore, a conference titled Six Years of Higher Education Quality Assurance According to Environmental, Social, and Governance (ESG) in Slovakia was held by the Slovak Accreditation Agency for Higher Education. The evaluation conference took place on 21–22 November 2024 in Bratislava. The aim of the conference was to evaluate the six-year period of implementing the European Standards and Guidelines (ESG) in the field of quality assurance in higher education in Slovakia. The event was intended for representatives of higher education institutions, teachers, students, employers and other professionals involved in enhancing the quality of higher education. Participation in these conferences and meetings brought forth numerous inspiring ideas and specific contacts for further development of education quality at BUT.

11 National and International Excellence of the University

11.1 International and Significant National Research, Development and Creative Activities, Integration of Research Infrastructure Into International Networks an Involvement of BUT in Professional and Artistic Networks

BUT is a member of a number of important institutions, scientific and artistic networks, organisations and associations. Below are listed selected international organisations in which BUT representatives are active:

Association of European Schools of Planning, The American Ceramic Society, Conference of European Schools of Advanced Engineering Education and Research (CESAER), CISCO Networking Academy, European League of Institutes of the Arts, European Quality Association for Recycling, European Universities Public Relations and Information Officers, European Association for Accident Research and Analysis, European Structural Integrity Society, European University Association, European Association for International Education, European Universities Linking Society and Technology, Global Business and Technology Association, Gesellschaft für Informatik, International Council of the Aeronautical Science, International Federation for the Promotion of Mechanism and Machine Science, The International Federation for Structural Concrete, The International Union for Vacuum Science, Technique and Applications, Federation of European Heating, Ventilation and Air Conditioning Associations, Transformation in Business and Economics, Die Wissenschaftlich-Technische Arbeitsgemeinschaft für Bauwerkserhaltung und Denkmalpflege and many others.

In addition, BUT staff are active in a number of professional associations, organisations and societies. The following may be mentioned:

Association of Libraries of Czech Universities, Association of Mechanical Engineers, Association of Experts and Appraisers of the Czech Republic, Czech Education and Scientific NETwork (CESNET), Czech and Slovak Society for Soil Mechanics and Geotechnical Engineering, Czech Concrete Society, Czech Physical Society, Czech Chamber of Chartered Engineers and Technicians Engaged in Construction, Czech Foundrymen Society, Czech Chemical Society, Czech Society for Mechanics, Czech Society for Non-Destructive Testing, Czech Welding Society, Czech Vacuum Society, Czech Society for New Materials and Technologies, Czech National Hydrology Committee, Czech-Moravian Association of Businesswomen and Managers, Electrical and Electronic Association of the Czech Republic, European Association for Biometrics, Institute of Electrical and Electronics Engineers, International Society for Optics and Photonics, International Society of Electrochemistry, International Union of Radio Science, Union of Czech Mathematicians and Physicists, National platform Transfera, Association for Railway Infrastructure, Concrete Structures Repair Association, Society for Radio Electronics Engineering, Society for Environmental Engineering, Association of Czech Booksellers and Publishers, Technical Standardization Committee of the Czech Standardization Agency, Energy Safety Technology Platform, Scientific and Technical Society for Building Rehabilitation and Preservation, etc.

11.2 BUT National and International Awards in 2024

An extensive list of awards can be found in the introductory part of the Annual Report on the Activities under Achievements and Awards. To briefly mention a few examples: the Werner von Siemens Award, the Josef Hlávka Award, the City of Brno Award, the Brno Ph.D. Talent Award, the Gold Medal of the International Engineering Fair, and the Golden Amper Award.

11.3 BUT International Evaluation, Including Foreign Accreditations

Evaluation of Research, Other Creative Activities and Doctoral Studies at BUT in 2024

In 2024, BUT completed an extensive evaluation of research, other creative activities and doctoral studies, which took place in two phases from 2023. This was one of the most extensive and comprehensive internal evaluations in the Czech academic environment, aimed at obtaining independent feedback from international experts and supporting strategic management of research activities at BUT.

The first phase of the evaluation took place in 2023 in the form of an internal assessment focused on benchmarking research and artistic disciplines against leading European institutions and self-evaluation of individual faculties and university institutes of BUT. Simultaneously, the BUT International Scientific Advisory Board actively participated in this process, providing feedback on the evaluation methodology and formulating recommendations for the second phase.

The second phase, implemented in 2024, was based on international peer-review assessment of individual institutes, or clusters of institutes, across the entire university. The assessment was conducted through detailed expert analysis of scientific performance, organisational structure, involvement in international cooperation, quality of doctoral studies and other aspects of the evaluated units' activities.

Each evaluated institute was assessed by at least three international experts, one of whom served as the principal evaluator with expertise corresponding to the institute's focus. The evaluators worked on the basis of self-evaluation reports, bibliometric analyses and other documentation for the period 2019–2023. The process also included online consultations and a three-day on-site visit to BUT in November 2024. During the visit, the evaluators met with the management of the university, faculties and evaluated university institutes of BUT, and visited laboratories and teaching facilities.

The evaluation involved 45 international experts from 25 countries and 9 members of the BUT International Scientific Advisory Board Emphasis was placed on the diversity of experts and gender balance, achieving 33% representation of women in the evaluation panels. At the same time, increased attention was paid to ensuring the independence of the entire process and eliminating conflicts of interest. The BUT International Scientific Advisory Board, composed of prominent international experts with academic and managerial experience from prestigious European universities, played an important role. Board members include, for example, Prof. Sabine Seidler (former Rector of TU Wien), Prof. Detlef Günther (former Vice-President of ETH Zurich) and Prof. Jarmo Takala (Vice-Rector for External Relations and Partnerships at Tampere University in Finland). Council members actively participated in overseeing the evaluation and contributed to ensuring consistency of assessment across faculties and university institutes of BUT.

A total of 43 research and artistic units were evaluated. Each unit was assessed on a five-point scale A1–C according to the level of scientific or artistic activity, societal impact, funding and strategic development. The results show that the majority of research units at BUT achieve standard to above-standard levels in international comparison, with several units ranking among Europe's elite.

The evaluation also included an analysis of 28 doctoral study programmes. In their case, grades were not awarded; instead, the evaluators provided feedback and specific recommendations in areas such as the quality of supervisors, the international dimension of doctoral research, programme structure and student development support.

The evaluation of research and doctoral programmes at BUT was not a one-off act but forms part of the university's research environment quality management and control system. BUT also subscribes to the principles of research assessment reform defined within the European initiative CoARA, which it joined in 2022. The fundamental principle is to prioritise qualitative assessment (peer review) over purely quantitative metrics, recognising the diversity of research outputs and respecting different forms of excellence across disciplines.

BUT's Position in International University Rankings

Brno University of Technology has confirmed and, in many cases, strengthened its position in international university rankings. The year 2024 brought significant achievements in the assessments of all three major rating agencies – THE, QS and ARWU.

In the Times Higher Education World University Rankings, BUT maintained its last year's position in the range of 1,001–1,200th place and confirmed its position as the best technical university in the Czech Republic. The university recorded improvements in teaching metrics, internationalisation, and particularly in industry collaboration, where it scores the highest among all Czech universities. In the THE subject rankings, BUT ranked in three out of eleven possible categories, maintaining its first place among Czech universities in Engineering.

In the QS World University Rankings, BUT maintained its 611–620th position, placing it among the top 41% of educational institutions worldwide and making it the fifth-best university in the Czech Republic. The university achieved significant improvement in the categories of international research partnerships (International Research Network) and attractiveness for international academic environment (International Faculty). BUT achieved extraordinary success in the QS Subject Rankings, where it appeared in ten categories for the first time in history, two broad subject areas and eight specialised fields. This ranks it among the most successful Czech representatives in this ranking.

In the prestigious Shanghai Ranking ARWU, BUT maintained its position among the world's best universities at 701st–800th place, moving up to fourth place among Czech universities. In the Global Ranking of Academic Subjects (GRAS), the university achieved significant success by ranking in seven engineering fields, which is the highest number among all Czech higher education institutions. In four of them – Nanoscience and Nanotechnology, Telecommunication Engineering, Energy Science and Engineering, and Electrical and Electronic Engineering – it achieved the best results within the Czech Republic.

The year 2024 was groundbreaking for BUT in terms of sustainability assessment. For the first time, the university reported data to the QS World University Rankings Sustainability and THE Impact Rankings. In the published QS Sustainability ranking, BUT ranked 477th out of 1,743 evaluated institutions, placing it among the top 27% of world universities in this field and among the five best in the Czech Republic. The THE Impact Rankings results were not published before the editorial deadline of this report.

The successful placements in international rankings confirm the long-term trend of increasing quality in education and research at BUT and are the result of systematic work by academic and non-academic staff and students. They also enhance the university's prestige on the international stage, which is important for establishing strategic partnerships and attracting international students and academic staff.

12 Third Role

12.1 Transfer of Knowledge Into Practice

At BUT, the transfer of knowledge into practice takes place through active and long-term cooperation between individual participants from the university and representatives of external companies. This process includes supporting the establishment of spin-off and start-up companies within BUT, which is part of a broader strategy for active support of commercial exploitation of intellectual property. University-wide support for intellectual property protection processes falls under one of the agendas of the Department of Knowledge Transfer of the BUT Rector's Office (DKT RO BUT). BUT, as a modern institution with high scientific potential, focuses on a broad spectrum of human activities and actively participates in research in key societal areas, such as the development of new technologies, ensuring security and environmental protection.

The newly offered professional Master of Science (MSc.) study programmes enable practitioners to obtain comprehensive education responding to current requirements within a short period. Three study programmes created in 2024 will be expanded according to corporate sector interest.

Scientists from CEITEC BUT, together with other partners, were investigators in the Centre for Electron and Photon Optics project, which enables manipulation of atoms or molecules, thus allowing modification of surface properties and structures of individual materials as needed. The broad scope of the project offered space for involvement of numerous teams from academic and industrial spheres, including the Institute of Scientific Instruments of the Czech Academy of Sciences and companies such as Meopta, Thermo Fisher Scientific, and Crytur.

Brno University of Technology played a substantial role in implementing communication scenarios to verify the functionality of the installed private 5G network and the use of augmented reality (AR) glasses for navigation of workers at the Temelín Nuclear Power Plant. These glasses enable workers to perform inspections without paper documents whilst providing control room operators with a real-time view of the equipment. The private 5G network is a key factor for implementing this technology. Using AR glasses, Temelín workers can view work procedures and technical diagrams directly whilst working. Testing the glasses thus represents another step towards modernisation and higher efficiency, as well as enhanced cyber/physical security within the ČEZ JETE premises.

The Dexter@FIT research team at FIT BUT, focusing on research in information systems and data processing, has created a portal analysing council votes, enabling citizens to better understand local politics. The portal analyses in detail the terms of office of regional councils from 2020–2024.

A unique collaboration between FFA BUT and the Faculty of Science MUNI has enabled the realisation of the Sculptures Among Flowers exhibition in the MUNI Botanical Garden. A total of 18 sculptures were made from various materials, many of which were produced by students using cutting-edge technologies. For instance, the Man with Child sculpture by Tomáš Pavlacký was created purely digitally based on numbers and equations, and the Clown sculpture by Andrea Krnáčová was made using special tools in the 3D technology laboratory.

FCH BUT was one of the partners in the TA CR project entitled Permanent Protection of Touch Screens to Prevent the Accumulation of Organic Pollutants on their Surface, led by FORTES Interactive, a company specialising in the manufacture of touch panels. The result is a self-cleaning, transparent and antimicrobial film that continuously removes harmful organisms from the surface of touch displays. Laboratory tests have demonstrated that LOTUS Foil eliminates more than 99% of the COVID-19 virus and more than 99.9% of bacteria such as E. coli and Staphylococcus aureus. The project continued until 2024, and the unique LOTUS Foil protective film was successfully applied to touchscreen machines within the faculty premises. This product represents a combination of cutting-edge science and innovation that addresses current challenges in public space hygiene and safety.

A team of experts led by Petr Münster from FEEC BUT has been involved since June 2024 in preserving the oldest comprehensively preserved ceiling structure in the Czech Republic at Zvíkov Castle. They are assisted in this endeavour by optical fibres. This is a pilot project in cooperation with the National Heritage Institute and the Institute of Theoretical and Applied Mechanics of the Czech Academy of Sciences.

Leading scientists from CEITEC BUT have introduced a breakthrough technological innovation, a state-of-the-art electron spin resonance (ESR) spectrometer with a frequency of 329 GHz equipped with dynamic nuclear polarisation (DNP) functionality. The newly developed 329 GHz electron spin resonance spectrometer represents a significant leap forward in scientific instrumentation. This advanced device is designed to measure electron spin resonance, a phenomenon that occurs when electrons under the influence of a magnetic field absorb specific electromagnetic waves. The spectrometer can provide scientists with unprecedented insight into the structural and material properties of various substances, making it an essential research tool in materials science, chemistry and biology. For the general public, the unveiling of this spectrometer represents an exciting step towards greater scientific discovery. Proteins, the building blocks of life, play a fundamental role in the health and functioning of our body. If proteins do not function properly, diseases may develop. Through the use of advanced magnetic resonance techniques, this spectrometer can help scientists better understand protein structure and design drugs that combat diseases at the molecular level.

12.2 Sustainability

Brno University of Technology, as a leading technical university, accepts responsibility for a sustainable future. We regard environmental and climate protection as essential not only for ensuring quality of life, but also as a major technological challenge. At the end of the year, the university management approved a new conceptual document, the Sustainability Strategy, which was developed during autumn 2024 with the participation of representatives from faculties, university institutes and units of BUT.

BUT's Sustainability Strategy establishes specific objectives, steps and monitoring tools with regard to the current and future needs of the university as a sustainable institution. This strategy is reflected not only in day-to-day operations but is designed as a comprehensive framework that integrates sustainability principles across all areas of the university's activities. It focuses on four key areas – education, research and creative activities, social role, and university governance and administration.

For each area, visions, strategic objectives and key projects are established that respond to the current and future needs of the university and align with the global Sustainable Development Goals (SDGs). The strategy is complemented by action plans, a communication concept and progress monitoring tools. The university aims to achieve short-term goals by 2025, medium-term goals by 2030 and has a long-term vision extending to 2040.

A further step in the area of sustainability was the calculation of the carbon footprint for the year 2023 and the development of a methodology for measuring the carbon footprint. BUT now has a methodology for annual emission footprint calculations in accordance with the international GHG Protocol standard.

In its activities in education, research and creative activities, social role and governance and administration, the University primarily focuses on SDGs where it achieves the most significant impact.

These are particularly:

- SDG 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.
- SDG 6: Ensure availability and sustainable management of water and sanitation for all.
- SDG 7: Ensure access to affordable, reliable, sustainable, and modern energy for all.
- SDG 8: Promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all.
- SDG 9: Build resilient infrastructure, promote inclusive and sustainable industrialisation, and foster innovation.
- SDG 11: Make cities and human settlements inclusive, safe, resilient, and sustainable.
- SDG 12: Ensure sustainable consumption and production patterns.
- SDG 13: Take urgent action to combat climate change and its impacts.

In 2024, BUT implemented numerous sustainable projects, scientific research initiatives and activities, about which both the academic community and the public were informed through the Sustainability website at www.vut.cz/udrzitelnost.

In terms of operations, in 2024, the Intelligent Buildings Department of the BUT Rector's Office (IBD RO BUT) successfully launched several key projects focused on sustainability and efficiency. The most significant of these was the commencement of design works for the future installation of photovoltaic panels on the roofs of the buildings of FEEC BUT and FIT BUT, which will contribute to greater energy self-sufficiency and reduce BUT's ecological footprint in the future.

Another important project at IBD RO BUT was the continuation of the digitalisation of BUT facilities operations. This primarily involves inventory and documentation of BUT buildings, including the gradual implementation of the Computer-aided facility management (CAFM) system. Furthermore, attention was given to the progressive implementation of energy management at BUT, which will enable more efficient monitoring of energy consumption. These activities help improve operational efficiency and long-term sustainability in the operational sphere.

13 Wellbeing and Gender Equality

13.1 Wellbeing

BUT supports the wellbeing of its employees. In 2024, in cooperation with CESA BUT, courses focused on workplace ergonomics and therapeutic exercise were offered to employees. For 2025, CESA BUT has prepared a one-year project called Put Your Health First focused on promoting both mental and physical health care for BUT employees with a capacity of 60 places. Last but not least, CESA BUT offers the loan of ergonomic aids for the prevention of health risks associated with sedentary employment.

BUT creates positive conditions for employees' work-life balance. It offers flexible working hours, adjustment of working conditions (part-time work, remote work), the Edison children's group, and a benefit programme for employees of all age groups, life stages and career phases. To support parents with children, BUT offers the opportunity to participate in the benefit programme during maternity, parental or paternity leave and to apply for an allowance for children's needs up to 6 years of age.

13.2 Gender Equality

From September to December 2024, a re-audit of the Gender Equality Plan 2022–2024 was conducted in cooperation with Gender Studies, s.r.o. The re-audit included a revision of related processes and a review of internal legislation. Several focus groups and individual interviews were conducted. The revised BUT Gender Equality Plan 2025–2028 was published in January 2025 in both Czech and English on the BUT website under the Employee and Student Support and Development section. To support gender equality, the Code of Gender-Sensitive Communication at BUT was also issued in 2024 (available in both Czech and English). The Code is published on the BUT website.

BUT creates a safe environment for work and study. In accordance with the BUT Code of Conduct and Guideline No. 12/2024 – Ensuring Social Security, BUT ensures the establishment of a non-discriminatory, transparent working and study environment based on the principle of mutual respect and cooperation.

The network of contact persons, representatives of individual faculties and university institutes of BUT, and the overarching social safety coordinator promotes employees' attentiveness to events in their immediate surroundings, interest in adhering to basic ethical principles and establishing a trustworthy and respectful organisational culture. In 2024, the social security area was strengthened by hiring a new employee for the position of Social Safety Coordinator, who is Mgr. Martina Martínková, Ph.D. Regular training of the team of contact persons took place, both in the form of internal meetings and intervisions, and in cooperation with the Mobbing Free Institute.

14 Strengthening Institutional Resilience Against Illegitimate Interference with Research Security

Brno University of Technology intensively addressed the issue of institutional resilience and illegitimate interference in 2024. BUT representatives participate in meetings of the Interdepartmental Working Group for Combating Illegitimate Interference in Higher Education and Research Environment. Based on discussions with representatives of ministries and other Czech universities, an internal document was created for the purposes of setting up processes and brainstorming by the BUT Management. Among other things, this has resulted in a decision to create a guideline, which will be finalised and issued in 2025 and will also establish the position of a person responsible for the given agenda. Representatives of BUT also participated in the November conference entitled Institutional Resilience as a Tool for Safeguarding Academic Freedom.

In 2024, BUT focused primarily on analyses of the given subject matter. For the purposes of analyses and strategy determination, existing methodologies of MEYS were, inter alia, utilised. Specific measures, policies and strategies shall be adopted in 2025.

The target groups that are crucial from BUT's perspective include heads of research groups, researchers, members of the BUT Rector's Board, employee groups, and students.

In terms of raising awareness of the given issue, internal discussions related to the implementation of preventive measures were primarily held in 2024.

BUT is involved in the Interdepartmental Working Group for Combating Illegitimate Interference in the Higher Education and Research Environment. Furthermore, BUT representatives participate in relevant conferences on illegitimate interference and counter-interference security. For the purposes of developing a comprehensive strategy, a supporting internal document was created, a counter-interference manual, an internal document for the purposes of BUT Management brainstorming. In 2025, a guideline shall be created which BUT will follow within this subject matter.

BUT has an internal tool, the Manual for Evaluating Strategic Territories at BUT, which provides certain guidance and recommends what factors to consider when deciding on new partnerships. In cooperation, emphasis is also placed on due diligence – know your partner.

15 TABULAR PART

OF THE ANNUAL REPORT ON THE BUT ACTIVITIES FOR 2024

Table 2.1: Accredited study programmes (numbers)

Brno University of Technology		Bachelor's studies		Master's studies		Follow-up Master's studies		Ph.D. studies		Total
		F	C/D	F	C/D	F	C/D	F	C/D	
Faculty of Civil Engineering										
ISCED-F broadly defined fields	code									
Natural sciences, mathematics and statistics	05	1	0	0	0	1	0	2	2	6
Technology, manufacturing and construction	07	6	1	0	0	10	1	10	13	41
Faculty total	**X**	**7**	**1**	**0**	**0**	**11**	**1**	**12**	**15**	**47**
Faculty of Mechanical Engineering										
ISCED-F broadly defined fields	code									
Arts and humanities	02	1	0	0	0	1	0	0	0	2
Natural sciences, mathematics and statistics	05	1	0	0	0	5	0	2	2	10
Technology, manufacturing and construction	07	10	2	0	0	19	4	17	17	69
Services	10	1	0	0	0	0	0	0	0	1
Faculty total	**X**	**13**	**2**	**0**	**0**	**25**	**4**	**19**	**19**	**82**
Faculty of Electrical Engineering and Communication										
ISCED-F broadly defined fields	code									
Arts and humanities	02	1	0	0	0	0	0	0	0	1
Information and communication technologies	06	2	0	0	0	2	0	5	5	14
Technology, manufacturing and construction	07	7	4	0	0	23	5	12	12	63
Faculty total	**X**	**10**	**4**	**0**	**0**	**25**	**5**	**17**	**17**	**78**
Faculty of Architecture										
ISCED-F broadly defined fields	code									
Technology, manufacturing and construction	07	2	0	0	0	2	0	1	1	6
Faculty total	**X**	**2**	**0**	**0**	**0**	**2**	**0**	**1**	**1**	**6**
Faculty of Chemistry										
ISCED-F broadly defined fields	code									
Natural sciences, mathematics and statistics	05	3	2	0	0	3	2	9	9	28
Technology, manufacturing and construction	07	6	5	0	0	3	2	4	4	24
Faculty total	**X**	**9**	**7**	**0**	**0**	**6**	**4**	**13**	**13**	**52**
Faculty of Business and Management										
ISCED-F broadly defined fields	code									
Social sciences, journalism and information sciences	03	0	0	0	0	2	0	0	0	2
Business, administration and law	04	5	0	0	0	4	3	2	2	16
Faculty total	**X**	**5**	**0**	**0**	**0**	**6**	**3**	**2**	**2**	**18**
Faculty of Fine Arts										
ISCED-F broadly defined fields	code									
Arts and humanities	02	2	0	0	0	3	0	3	4	12
Faculty total	**X**	**2**	**0**	**0**	**0**	**3**	**0**	**3**	**4**	**12**
Faculty of Information Technology										
ISCED-F broadly defined fields	code									
Information and communication technologies	06	2	0	0	0	2	0	4	3	11
Faculty total	**X**	**2**	**0**	**0**	**0**	**2**	**0**	**4**	**3**	**11**

Brno University of Technology		Bachelor's studies		Master's studies		Follow-up Master's studies		Ph.D. studies		Total
		F	C/D	F	C/D	F	C/D	F	C/D	
Institute of Forensic Engineering										
ISCED-F broadly defined fields	code									
Technology, manufacturing and construction	07	0	0	0	0	2	0	1	1	4
Services	10	0	0	0	0	1	0	1	1	3
Department total	**X**	**0**	**0**	**0**	**0**	**3**	**0**	**2**	**2**	**7**
Centre of Sports Activities										
ISCED-F broadly defined fields	code									
Technology, manufacturing and construction	07	1	0	0	0	0	0	0	0	1
Department total	**X**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**
CEITEC BUT										
ISCED-F broadly defined fields	code									
Natural sciences, mathematics and statistics	05	0	0	0	0	0	0	4	3	7
Department total	**X**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**3**	**7**
Brno University of Technology										
ISCED-F broadly defined fields	code									
Arts and humanities	02	4	0	0	0	4	0	3	4	15
Social sciences, journalism and information sciences	03	0	0	0	0	2	0	0	0	2
Business, administration and law	04	5	0	0	0	4	3	2	2	16
Natural sciences, mathematics and statistics	05	5	2	0	0	9	2	17	16	51
Information and communication technologies	06	4	0	0	0	4	0	9	8	25
Technology, manufacturing and construction	07	32	12	0	0	59	12	45	48	208
Services	10	1	0	0	0	1	0	1	1	4
University TOTAL	**X**	**51**	**14**	**0**	**0**	**83**	**17**	**77**	**79**	**321**

Table 2.2: Study programmes in a foreign language (numbers)

Brno University of Technology		Bachelor's studies		Master's studies		Follow-up Master's studies		Ph.D. studies		Total
		F	C/D	F	C/D	F	C/D	F	C/D	
Faculty of Civil Engineering										
ISCED-F broadly defined fields	code									
Natural sciences, mathematics and statistics	05	0	0	0	0	0	0	1	1	2
Technology, manufacturing and construction	07	1	0	0	0	1	0	5	6	13
Faculty total	**X**	**1**	**0**	**0**	**0**	**1**	**0**	**6**	**7**	**15**
Faculty of Mechanical Engineering										
ISCED-F broadly defined fields	code									
Natural sciences, mathematics and statistics	05	0	0	0	0	3	0	1	1	5
Technology, manufacturing and construction	07	1	0	0	0	2	0	6	6	15
Faculty total	**X**	**1**	**0**	**0**	**0**	**5**	**0**	**7**	**7**	**20**

Brno University of Technology		Bachelor's studies		Master's studies		Follow-up Master's studies		Ph.D. studies		Total
		F	C/D	F	C/D	F	C/D	F	C/D	
Faculty of Electrical Engineering and Communication										
ISCED-F broadly defined fields	code									
Information and communication technologies	06	0	0	0	0	0	0	3	3	6
Technology, manufacturing and construction	07	1	0	0	0	12	0	6	6	25
Faculty total	**X**	**1**	**0**	**0**	**0**	**12**	**0**	**9**	**9**	**31**
Faculty of Architecture										
ISCED-F broadly defined fields	code									
Technology, manufacturing and construction	07	1	0	0	0	1	0	0	0	2
Faculty total	**X**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**2**
Faculty of Chemistry										
ISCED-F broadly defined fields	code									
Natural sciences, mathematics and statistics	05	0	0	0	0	0	0	3	3	6
Technology, manufacturing and construction	07	0	0	0	0	1	0	0	1	2
Faculty total	**X**	**0**	**0**	**0**	**0**	**1**	**0**	**3**	**4**	**8**
Faculty of Business and Management										
ISCED-F broadly defined fields	code									
Social sciences, journalism and information sciences	03	0	0	0	0	1	0	0	0	1
Business, administration and law	04	1	0	0	0	1	0	1	1	4
Faculty total	**X**	**1**	**0**	**0**	**0**	**2**	**0**	**1**	**1**	**5**
Faculty of Fine Arts										
ISCED-F broadly defined fields	code									
Arts and humanities	02	0	0	0	0	1	0	1	1	3
Faculty total	**X**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**1**	**3**
Faculty of Information Technology										
ISCED-F broadly defined fields	code									
Information and communication technologies	06	1	0	0	0	1	0	2	1	5
Faculty total	**X**	**1**	**0**	**0**	**0**	**1**	**0**	**2**	**1**	**5**
CEITEC BUT										
ISCED-F broadly defined fields	code									
Natural sciences, mathematics and statistics	05	0	0	0	0	0	0	2	1	3
Department total	**X**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**1**	**3**
Brno University of Technology										
ISCED-F broadly defined fields	code									
Arts and humanities	02	0	0	0	0	1	0	1	1	3
Social sciences, journalism and information sciences	03	0	0	0	0	1	0	0	0	1
Business, administration and law	04	1	0	0	0	1	0	1	1	4
Natural sciences, mathematics and statistics	05	0	0	0	0	3	0	7	6	16
Information and communication technologies	06	1	0	0	0	1	0	5	4	11
Technology, manufacturing and construction	07	4	0	0	0	17	0	17	19	57
University TOTAL	**X**	**6**	**0**	**0**	**0**	**24**	**0**	**31**	**31**	**92**

Tab. 2.3: Joint/Double/Multiple Degree study programmes implemented with a university abroad

Brno University of Technology	Faculty of Mechanical Engineering
Name of the programme 1	**Production Technology**
Partner organizations	Technische Universität Chemnitz (Germany)
Affiliated organizations	None
Kind of programme (Joint/Double/Multiple Degree)	Double Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Bachelor
Number of active studies as of December 31	0

Name of the programme 2	**Industrial Engineering**
Partner organizations	Art et Métiers ParisTech (Cluny, France)
Affiliated organizations	None
Kind of programme (Joint/Double/Multiple Degree)	Double Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Follow-up master
Number of active studies as of December 31	0

Name of the programme 3	**Production Systems**
Partner organizations	Technische Universität Chemnitz (Germany)
Affiliated organizations	None
Kind of programme (Joint/Double/Multiple Degree)	Double Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Follow-up master
Number of active studies as of December 31	5

Name of the programme 4	**Applied and Interdisciplinary Mathematics**
Partner organizations	University of L'Aquila, Italy
Affiliated organizations	None
Kind of programme (Joint/Double/Multiple Degree)	Double Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Follow-up master
Number of active studies as of December 31	17

Name of the programme 5	**Logistics Analytics**
Partner organizations	Molde University College – Specialized University in Logistics
Affiliated organizations	None
Kind of programme (Joint/Double/Multiple Degree)	Double Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Follow-up master
Number of active studies as of December 31	0

Brno University of Technology	Faculty of Electrical Engineering and Communication
Name of the programme 1	**Telecommunications**
Partner organizations	Technische Universität Wien
Affiliated organizations	
Kind of programme (Joint/Double/Multiple Degree)	Joint Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Follow-up master
Number of active studies as of December 31	1

Name of the programme 2	**Communications and Networking (Double-Degree)**
Partner organizations	Tampere University, Finland
Affiliated organizations	
Kind of programme (Joint/Double/Multiple Degree)	Double Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Follow-up master
Number of active studies as of December 31	9

Name of the programme 3	**Microelectronics (Double-Degree)**
Partner organizations	Northern Illinois University
Affiliated organizations	
Kind of programme (Joint/Double/Multiple Degree)	Double Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Follow-up master
Number of active studies as of December 31	0

Name of the programme 4	**Bioengineering Double-Degree)**
Partner organizations	The University of Applied Sciences, Technikum Wien
Affiliated organizations	
Kind of programme (Joint/Double/Multiple Degree)	Double Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Follow-up master
Number of active studies as of December 31	7

Name of the programme 5	**Electronics and Information Technologies (Double-Degree)**
Partner organizations	TU Tampere
Affiliated organizations	
Kind of programme (Joint/Double/Multiple Degree)	Double Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Doctoral
Number of active studies as of December 31	6

Brno University of Technology	Faculty of Chemistry
Name of the programme 1	**Environmental Sciences and Engineering**
Partner organizations	University Koblenz-Landau (UKL), Germany
Affiliated organizations	
Kind of programme (Joint/Double/Multiple Degree)	Double Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Follow-up master
Number of active studies as of December 31	9

Brno University of Technology	Faculty of Business and Management
Name of the programme 1	**European Business and Finance**
Partner organizations	Nottingham Trent University (GB), Karol Adamiecky University of Economics in Katowice (PL)
Affiliated organizations	
Kind of programme (Joint/Double/Multiple Degree)	Joint Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Follow-up master
Number of active studies as of December 31	0

Brno University of Technology	Faculty of Information Technology
Name of the programme 1	**Computer Vision**
Partner organizations	Lappeenranta–Lahti University of Technology LUT, Finland
Affiliated organizations	
Kind of programme (Joint/Double/Multiple Degree)	Double Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Follow-up master
Number of active studies as of December 31	2

Brno University of Technology	CEITEC BUT
Name of the programme 1	**Advanced Materials and Nanosciences**
Partner organizations	RWTH Aachen University
Affiliated organizations	
Kind of programme (Joint/Double/Multiple Degree)	Doube Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Doctoral
Number of active studies as of December 31	1

Name of the programme 2	**Advanced Materials and Nanosciences**
Partner organizations	Alexander Dubček University of Trenčín
Affiliated organizations	
Kind of programme (Joint/Double/Multiple Degree)	Double Degree
Type of programme (bachelor, follow-up master, master, doctoral)	Doctoral
Number of active studies as of December 31	3

Summary information on tab. 2.3

Brno University of Technology	Bachelor's studies	Master's studies	Follow-up Master's studies	Ph.D. studies	Total
Number of study programmes	1		9	3	13
Number of active studies in these programmes	0		41	10	51

Tab. 2.4: Accredited study programmes carried out jointly with another university or with a public research institution based in the Czech Republic

Brno University of Technology	Faculty of Mechanical Engineering
Name of the programme 1	**Engineering Mechanics**
Broadly defined ISCED-F field	715
Partner university/institution	Institute of Physics of Materials AS CR
Type of programme (bachelor, follow-up master, master, doctoral)	Doctoral
Number of active studies as of December 31	33

Name of the programme 2	**Material Sciences**
Broadly defined ISCED-F field	719
Partner university/institution	Institute of Physics of Materials AS CR
Type of programme (bachelor, follow-up master, master, doctoral)	Doctoral
Number of active studies as of December 31	7

Name of the programme 3	**Physical Engineering and Nanotechnology**
Broadly defined ISCED-F field	533
Partner university/institution	Institute of Instrumentation AS CR
Type of programme (bachelor, follow-up master, master, doctoral)	Doctoral
Number of active studies as of December 31	30

Name of the programme 4	**Materials Sciences**
Broadly defined ISCED-F field	719
Partner university/institution	Institute of Physics of Materials AS CR
Type of programme (bachelor, follow-up master, master, doctoral)	Doctoral
Number of active studies as of December 31	0

Name of the programme 5	**Applied Mechanics**
Broadly defined ISCED-F field	715
Partner university/institution	Institute of Physics of Materials AS CR
Type of programme (bachelor, follow-up master, master, doctoral)	Doctoral
Number of active studies as of December 31	0

Name of the programme 6	Physical Engineering and Nanotechnology
Broadly defined ISCED-F field	533
Partner university/institution	Institute of Instrumentation AS CR
Type of programme (bachelor, follow-up master, master, doctoral)	Doctoral
Number of active studies as of December 31	0

Brno University of Technology	Faculty of Electrical Engineering and Communication
Name of the programme 1	**Biomedical Engineering and Bioinformatics**
Broadly defined ISCED-F field	688
Partner university/institution	Faculty of Medicine MU
Type of programme (bachelor, follow-up master, master, doctoral)	Bachelor
Number of active studies as of December 31	282

Name of the programme 2	Audio Engineering
Broadly defined ISCED-F field	714
Partner university/institution	JAMU Faculty of Music
Type of programme (bachelor, follow-up master, master, doctoral)	Bachelor
Number of active studies as of December 31	157

Name of the programme 3	Audio Engineering
Broadly defined ISCED-F field	714
Partner university/institution	JAMU Faculty of Music
Type of programme (bachelor, follow-up master, master, doctoral)	Follow-up master
Number of active studies as of December 31	71

Brno University of Technology	CEITEC BUT
Name of the programme 1	**Advanced Materials and Nanosciences**
Broadly defined ISCED-F field	
Partner university/institution	Institute of Physics of Materials AS CR
Type of programme (bachelor, follow-up master, master, doctoral)	Doctoral
Number of active studies as of December 31	136

Summary information on tab. 2.4

Brno University of Technology	Bachelor's studies	Master's studies	Follow-up Master's studies	Ph.D. studies	Total
Number of study programmes	2	0	1	7	10
Number of active studies in these programmes	439	0	71	206	716

Tab. 2.5 Accredited study programmes carried out together with a higher vocational school

BUT does not have such study programmes.

Tab. 2.6: Lifelong learning courses (LL) at the university (number of courses)

Brno University of Technology		Profession-oriented courses			Interest courses			U3V	Total
Broadly defined ISCED-F fields	code	up to 15 h	from 16 to 100 h	more than 100 h	up to 15 h	from 16 to 100 h	more than 100 h		
Programmes and qualifications – general education	00	0	0	0	0	0	0	0	0
Education and upbringing	01	6	14	12	3	3	3	3	44
Arts and humanities	02	5	1	0	0	0	0	24	30
Social sciences, journalism and information sciences	03	0	0	0	0	0	0	6	6
Business, administration and law	04	2	0	2	0	7	2	0	13
Natural sciences, mathematics and statistics	05	1	3	1	0	1	0	4	10
Information and communication technologies	06	1	0	0	0	0	0	10	11
Technology, manufacturing and construction	07	17	2	5	0	0	0	19	43
Agriculture, forestry, fishing and veterinary medicine	08	0	0	0	0	0	0	0	0
Health and social care, care for favourable living conditions	09	0	0	0	0	0	0	0	0
Services	10	0	0	0	0	0	0	0	0
TOTAL	**X**	**32**	**20**	**20**	**3**	**11**	**5**	**66**	**157**

Tab. 2.7: Lifelong learning courses (LL) at the university (number of participants)

Brno University of Technology		Profession-oriented courses			Interest courses			U3V	Total	Of which number of participants who were admitted to accredited study programmes according to § 60 of the Act on Universities
Broadly defined ISCED-F fields	code	up to 15 h	from 16 to 100 h	more than 100 h	up to 15 h	from 16 to 100 h	more than 100 h			
Programmes and qualifications – general education	00	0	0	0	0	0	0	0	0	0
Education and upbringing	01	82	408	253	0	0	0	0	743	11
Arts and humanities	02	96	21	0	0	0	0	1,730	1,847	117
Social sciences, journalism and information sciences	03	0	0	0	0	0	0	259	259	0
Business, administration and law	04	69	0	40	0	120	22	0	238	0
Natural sciences, mathematics and statistics	05	0	146	1	0	50	0	80	277	29
Information and communication technologies	06	9	0	0	0	0	0	141	150	0
Technology, manufacturing and construction	07	633	943	72	0	0	0	293	1,941	0

Brno University of Technology		Profession-oriented courses			Interest courses			U3V	Total	Of which number of participants who were admitted to accredited study programmes according to § 60 of the Act on Universities
Broadly defined ISCED-F fields	code	up to 15 h	from 16 to 100 h	more than 100 h	up to 15 h	from 16 to 100 h	more than 100 h			
Agriculture, forestry, fishing and veterinary medicine	08	0	0	0	0	0	0	0	0	0
Health and social care, care for favourable living conditions	09	0	0	0	0	0	0	0	0	0
Services	10	0	0	0	0	0	0	0	0	0
TOTAL	**X**	**889**	**1518**	**366**	**0**	**170**	**22**	**2,503**	**5,455**	**157**

Tab. 2.8: Lifelong learning courses (LL) at the university (number of participants) – microcredentials

Brno University of Technology		Number of courses			Total	Number of participants			Total
Broadly defined ISCED-F fields	code	Profession-oriented	Inte-rest	U3V		Profession-oriented	Inte-rest	U3V	
Programmes and qualifications – general education	00	0	0	0	0	0	0	0	0
Education and upbringing	01	1	0	0	1	15	0	0	15
Arts and humanities	02	0	0	0	0	0	0	0	0
Social sciences, journalism and information sciences	03	0	0	0	0	0	0	0	0
Business, administration and law	04	0	6	0	6	0	103	0	98
Natural sciences, mathematics and statistics	05	0	0	0	0	0	0	0	0
Information and communication technologies	06	0	0	0	0	0	0	0	0
Technology, manufacturing and construction	07	16	0	0	16	258	0	0	258
Agriculture, forestry, fishing and veterinary medicine	08	0	0	0	0	0	0	0	0
Health and social care, care for favourable living conditions	09	0	0	0	0	0	0	0	0
Services	10	0	0	0	0	0	0	0	0
TOTAL	**X**	**17**	**6**	**0**	**23**	**273**	**103**	**0**	**371**

Tab. 3.1: Students in accredited study programmes (number of studies)

Brno University of Technology		Bachelor's studies		Master's studies		Follow-up Master's studies		Ph.D. studies		Total
Broadly defined ISCED-F fields	**code**	**F**	**C/D**	**F**	**C/D**	**F**	**C/D**	**F**	**C/D**	
Faculty of Civil Engineering										
Natural sciences, mathematics and statistics	05	134	0	0	0	29	0	1	1	165
Technology, manufacturing and construction	07	2,434	96	0	0	734	34	87	52	3,437
Faculty total	**X**	**2,568**	**96**	**0**	**0**	**763**	**34**	**88**	**53**	**3,602**
Of which number of women at FCE	X	953	45	0	0	338	15	28	7	1,386
Of which number of foreigners at FCE	X	555	6	0	0	167	8	17	6	759
Faculty of Mechanical Engineering										
Arts and humanities	02	39	0	0	0	23	0	0	0	62
Natural sciences, mathematics and statistics	05	71	0	0	0	68	0	9	4	152
Technology, manufacturing and construction	07	1,844	52	0	0	839	54	177	29	2,995
Services	10	76	0	0	0	0	0	0	0	76
Faculty total	**X**	**2,030**	**52**	**0**	**0**	**930**	**54**	**186**	**33**	**3,285**
Of which number of women at FME	X	179	3	0	0	94	1	36	4	317
Of which number of foreigners at FME	X	378	5	0	0	168	4	35	7	597
Faculty of Electrical Engineering and Communication										
Arts and humanities	02	51	0	0	0	0	0	0	0	51
Information and communication technologies	06	451	0	0	0	147	0	25	23	646
Technology, manufacturing and construction	07	1,578	8	0	0	628	36	102	108	2,460
Faculty total	**X**	**2,080**	**8**	**0**	**0**	**775**	**36**	**127**	**131**	**3157**
Of which number of women at FEEC	X	225	0	0	0	101	5	18	17	366
Of which number of foreigners at FEEC	X	558	0	0	0	215	9	31	22	835
Faculty of Architecture										
Technology, manufacturing and construction	07	414	0	0	0	160	0	40	6	620
Faculty total	**X**	**414**	**0**	**0**	**0**	**160**	**0**	**40**	**6**	**620**
Of which number of women at FA	X	250	0	0	0	111	0	20	1	382
Of which number of foreigners at FA	X	120	0	0	0	56	0	4	0	180
Faculty of Chemistry										
Natural sciences, mathematics and statistics	05	355	31	0	0	190	15	93	20	704
Technology, manufacturing and construction	07	229	27	0	0	71	6	17	9	359
Faculty total	**X**	**584**	**58**	**0**	**0**	**261**	**21**	**110**	**29**	**1,063**
Of which number of women at FCH	X	379	40	0	0	156	14	65	14	668
Of which number of foreigners at FCH	X	166	13	0	0	51	2	23	5	260
Faculty of Business and Management										
Social sciences, journalism and information sciences	03	0	0	0	0	63	0	0	0	63
Business, administration and law	04	1,772	0	0	0	473	184	24	12	2,465
Faculty total	**X**	**1,772**	**0**	**0**	**0**	**536**	**184**	**24**	**12**	**2,528**
Of which number of women at FBM	X	818	0	0	0	250	89	11	2	1,170
Of which number of foreigners at FBM	X	433	0	0	0	108	28	4	5	578

Brno University of Technology		Bachelor's studies		Master's studies		Follow-up Master's studies		Ph.D. studies		Total
Broadly defined ISCED-F fields	**code**	**F**	**C/D**	**F**	**C/D**	**F**	**C/D**	**F**	**C/D**	
Faculty of Fine Arts										
Arts and humanities	02	233	0	0	0	99	0	54	2	388
Faculty total	**X**	**233**	**0**	**0**	**0**	**99**	**0**	**54**	**2**	**388**
Of which number of women at FFA	X	152	0	0	0	70	0	28	2	252
Of which number of foreigners at FFA	X	55	0	0	0	24	0	9	0	88
Faculty of Information Technology										
Information and communication technologies	06	1,957	0	0	0	459	0	96	30	2,542
Faculty total	**X**	**1,957**	**0**	**0**	**0**	**459**	**0**	**96**	**30**	**2,542**
Of which number of women at FIT	X	206	0	0	0	57	0	7	5	275
Of which number of foreigners at FIT	X	826	0	0	0	206	0	38	19	1,089
Institute of Forensic Engineering										
Technology, manufacturing and construction	07	0	0	0	0	143	0	10	12	165
Services	10	0	0	0	0	53	0	0	0	53
Department total	**X**	**0**	**0**	**0**	**0**	**196**	**0**	**10**	**12**	**218**
Of which number of women at IFE	X	0	0	0	0	73	0	5	1	79
Of which number of foreigners at IFE	X	0	0	0	0	28	0	0	0	28
Centre of Sports Activities										
Technology, manufacturing and construction	07	55	0	0	0	0	0	0	0	55
Department total	**X**	**55**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**55**
Of which number of women at CESA	X	22	0	0	0	0	0	0	0	22
Of which number of foreigners at CESA	X	12	0	0	0	0	0	0	0	12
CEITEC BUT										
Natural sciences, mathematics and statistics	05	0	0	0	0	0	0	132	9	141
Department total	**X**	**0**	**0**	**0**	**0**	**0**	**0**	**132**	**9**	**141**
Of which number of women at CEITEC BUT	X	0	0	0	0	0	0	57	4	61
Of which number of foreigners at CEITEC BUT	X	0	0	0	0	0	0	75	4	79
Brno University of Technology										
Arts and humanities	02	323	0	0	0	122	0	54	2	501
Social sciences, journalism and information sciences	03	0	0	0	0	63	0	0	0	63
Business, administration and law	04	1,772	0	0	0	473	184	24	12	2,465
Natural sciences, mathematics and statistics	05	560	31	0	0	287	15	235	34	1,162
Information and communication technologies	06	2,408	0	0	0	606	0	121	53	3,188
Technology, manufacturing and construction	07	6,554	183	0	0	2,575	130	433	216	10,091
Services	10	76	0	0	0	53	0	0	0	129
University TOTAL	**X**	**11,693**	**214**	**0**	**0**	**4,179**	**329**	**867**	**317**	**17,599**
Of which number of women total	X	3,184	88	0	0	1,250	124	275	57	4,978
Of which number of foreigners total	X	3,103	24	0	0	1,023	51	236	68	4,505

Tab. 3.2: Self-paying students (number of studies)

Brno University of Technology		Bachelor's studies		Master's studies		Follow-up Master's studies		Ph.D. studies		Total
Broadly defined ISCED-F fields	**code**	**F**	**C/D**	**F**	**C/D**	**F**	**C/D**	**F**	**C/D**	
Faculty of Civil Engineering										
Technology, manufacturing and construction	07	12	0	0	0	5	0	3	0	20
Faculty total	**X**	**12**	**0**	**0**	**0**	**5**	**0**	**3**	**0**	**20**
Faculty of Mechanical Engineering										
Natural sciences, mathematics and statistics	05	0	0	0	0	1	0	1	0	2
Technology, manufacturing and construction	07	31	0	0	0	16	0	3	0	50
Faculty total	**X**	**31**	**0**	**0**	**0**	**17**	**0**	**4**	**0**	**52**
Faculty of Electrical Engineering and Communication										
Information and communication technologies	06	0	0	0	0	0	0	5	1	6
Technology, manufacturing and construction	07	39	0	0	0	55	0	3	4	101
Faculty total	**X**	**39**	**0**	**0**	**0**	**55**	**0**	**8**	**5**	**107**
Faculty of Architecture										
Technology, manufacturing and construction	07	13	0	0	0	6	0	0	0	19
Faculty total	**X**	**13**	**0**	**0**	**0**	**6**	**0**	**0**	**0**	**19**
Faculty of Chemistry										
Natural sciences, mathematics and statistics	05	0	0	0	0	0	0	0	1	1
Technology, manufacturing and construction	07	0	0	0	0	9	0	0	0	9
Faculty total	**X**	**0**	**0**	**0**	**0**	**9**	**0**	**0**	**1**	**10**
Faculty of Business and Management										
Business, administration and law	04	137	0	0	0	17	0	0	4	158
Faculty total	**X**	**137**	**0**	**0**	**0**	**17**	**0**	**0**	**4**	**158**
Faculty of Fine Arts										
Arts and humanities	02	0	0	0	0	8	0	0	0	8
Faculty total	**X**	**0**	**0**	**0**	**0**	**8**	**0**	**0**	**0**	**8**
Faculty of Information Technology										
Information and communication technologies	06	0	0	0	0	15	0	3	0	18
Faculty total	**X**	**0**	**0**	**0**	**0**	**15**	**0**	**3**	**0**	**18**
Brno University of Technology										
Arts and humanities	02	0	0	0	0	8	0	0	0	8
Business, administration and law	04	137	0	0	0	17	0	0	4	158
Natural sciences, mathematics and statistics	05	0	0	0	0	1	0	1	1	3
Information and communication technologies	06	0	0	0	0	15	0	8	1	24
Technology, manufacturing and construction	07	95	0	0	0	91	0	9	4	199
University TOTAL	**X**	**232**	**0**	**0**	**0**	**132**	**0**	**18**	**10**	**392**

Tab. 3.3: Study failure in the 1st year of study (in %)

Brno University of Technology	Bachelor's studies			Master's studies			Follow-up Master's studies			Ph.D. studies			Total
	F	C/D	Total	F	C/D	Total	F	C/D	Total	F	C/D	Total	
Faculty of Civil Engineering	29.61	60.61	31.91				4.06	25.00	4.76	25.00	23.08	26.83	24.37
Faculty of Mechanical Engineering	43.76	48.28	44.11				7.29	18.75	8.15	19.23	42.86	23.21	32.15
Faculty of Electrical Engineering and Communication	38.00	50.00	38.11				23.94	72.97	27.92	3.45	0.00	2.94	33.96
Faculty of Architecture	13.33		13.33				5.19		5.19	25.00		25.00	11.00
Faculty of Chemistry	55.75	55.26	56.56				13.24	25.00	14.38	14.71	100.00	17.65	41.60
Faculty of Business and Management	33.75		33.75				21.71	30.09	25.24	45.45		45.45	30.96
Faculty of Fine Arts	5.08		5.08				18.00		18.00	0.00		0.00	10.08
Faculty of Information Technology	34.09		34.09				23.45		23.45	18.18	0.00	15.38	31.32
Institute of Forensic Engineering							73.49		73.49	50.00	50.00	55.56	72.57
Centre of Sports Activities	50.00		50.00										50.00
CEITEC BUT										4.00		4.00	4.00
BUT TOTAL	**36.41**	**56.30**	**37.06**				**19.39**	**35.44**	**21.05**	**17.17**	**26.47**	**18.99**	**31.43**

Tab. 3.4: Scholarships to students according to the purpose of the scholarship (numbers of natural persons)

Brno University of Technology Purose of the scholarship	Number of students	The average amount of the scholarship (CZK)
for excellent study results according to § 91 par. 2 let. a)	1,222	12,033
for excellent scientific, research, development, artistic or other creative results according to § 91 par. 2 let. b)	676	16,205
for research, development and innovation activities pursuant to a special legal regulation, § 91 par. 2 let. c)	979	37,924
in the case of a difficult social situation of the student according to § 91 par. 2 let. d)	0	0
in the case of a difficult social situation of the student according to § 91 par. 3	36	29,004
in cases worthy of special consideration according to § 91 par. 2 let. e)	13,714	6,837
of which accommodation scholarship	12,879	4,732
to support study abroad according to § 91 par. 4 let. a)	826	47,465
to support study in the Czech Republic according to § 91 par. 4 let. b)	240	34,651
students of doctoral study programmes according to § 91 par. 4 let. c)	1,072	97,539
other scholarships	0	0
TOTAL	**14,432**	**21,458**

Tab. 4.1: Graduates of accredited study programmes (number of completed studies)

Brno University of Technology		Bachelor's studies		Master's studies		Follow-up Master's studies		Ph.D. studies		Total
Broadly defined ISCED-F fields	**code**	**F**	**C/D**	**F**	**C/D**	**F**	**C/D**	**F**	**C/D**	
Faculty of Civil Engineering										
Natural sciences, mathematics and statistics	05	13	0	0	0	12	0	0	0	25
Technology, manufacturing and construction	07	377	10	0	0	351	15	1	61	815
Faculty total	**X**	**390**	**10**	**0**	**0**	**363**	**15**	**1**	**61**	**840**
Of which number of women at FCE	X	168	3	0	0	167	7	0	20	365
Of which number of foreigners at FCE	X	91	3	0	0	59	5	0	7	165
Faculty of Mechanical Engineering										
Arts and humanities	02	15	0	0	0	13	0	0	0	28
Natural sciences, mathematics and statistics	05	14	0	0	0	17	0	0	0	31
Technology, manufacturing and construction	07	430	10	0	0	331	18	45	34	868
Services	10	6	0	0	0	0	0	0	0	6
Faculty total	**X**	**465**	**10**	**0**	**0**	**361**	**18**	**45**	**34**	**933**
Of which number of women at FME	X	45	1	0	0	44	3	6	2	101
Of which number of foreigners at FME	X	70	0	0	0	74	1	11	5	161
Faculty of Electrical Engineering and Communication										
Arts and humanities	02	17	0	0	0	0	0	0	0	17
Information and communication technologies	06	92	0	0	0	52	0	5	5	154
Technology, manufacturing and construction	07	261	5	0	0	228	8	1	26	529
Faculty total	**X**	**370**	**5**	**0**	**0**	**280**	**8**	**6**	**31**	**700**
Of which number of women at FEEC	X	39	0	0	0	31	1	2	6	79
Of which number of foreigners at FEEC	X	83	1	0	0	76	4	5	5	174
Faculty of Architecture										
Technology, manufacturing and construction	07	70	0	0	0	63	0	1	1	135
Faculty total	**X**	**70**	**0**	**0**	**0**	**63**	**0**	**1**	**1**	**135**
Of which number of women at FA	X	52	0	0	0	38	0	0	0	90
Of which number of foreigners at FA	X	22	0	0	0	28	0	0	0	50
Faculty of Chemistry										
Natural sciences, mathematics and statistics	05	61	0	0	0	71	6	11	1	150
Technology, manufacturing and construction	07	62	6	0	0	22	3	5	2	100
Faculty total	**X**	**123**	**6**	**0**	**0**	**93**	**9**	**16**	**3**	**250**
Of which number of women at FCH	X	75	4	0	0	64	6	8	2	159
Of which number of foreigners at FCH	X	26	1	0	0	21	1	2	0	51
Faculty of Business and Management										
Social sciences, journalism and information sciences	03	0	0	0	0	35	0	0	0	35
Business, administration and law	04	297	0	0	0	194	64	3	9	567
Information and communication technologies	06	0	0	0	0	1	0	0	0	1
Faculty total	**X**	**297**	**0**	**0**	**0**	**230**	**64**	**3**	**9**	**603**
Of which number of women at FBM	X	144	0	0	0	117	30	2	4	297
Of which number of foreigners at FBM	X	64	0	0	0	38	13	1	2	118

Brno University of Technology		Bachelor's studies		Master's studies		Follow-up Master's studies		Ph.D. studies		Total
Broadly defined ISCED-F fields	**code**	**F**	**C/D**	**F**	**C/D**	**F**	**C/D**	**F**	**C/D**	
Faculty of Fine Arts										
Arts and humanities	02	40	0	0	0	36	0	7	1	84
Faculty total	**X**	**40**	**0**	**0**	**0**	**36**	**0**	**7**	**1**	**84**
Of which number of women at FFA	X	27	0	0	0	27	0	3	1	58
Of which number of foreigners at FFA	X	6	0	0	0	9	0	2	0	17
Faculty of Information Technology										
Information and communication technologies	06	336	0	0	0	152	0	2	24	514
Faculty total	**X**	**336**	**0**	**0**	**0**	**152**	**0**	**2**	**24**	**514**
Of which number of women at FIT	X	35	0	0	0	13	0	0	2	50
Of which number of foreigners at FIT	X	145	0	0	0	56	0	0	6	207
Institute of Forensic Engineering										
Technology, manufacturing and construction	07	0	0	0	0	24	0	0	5	29
Services	10	0	0	0	0	5	0	0	0	5
Department total	**X**	**0**	**0**	**0**	**0**	**29**	**0**	**0**	**5**	**34**
Of which number of women at IFE	X	0	0	0	0	17	0	0	3	20
Of which number of foreigners at IFE	X	0	0	0	0	1	0	0	0	1
Centre of Sports Activities										
Technology, manufacturing and construction	07	10	0	0	0	0	0	0	0	10
Department total	**X**	**10**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10**
Of which number of women at CESA	X	4	0	0	0	0	0	0	0	4
Of which number of foreigners at CESA	X	2	0	0	0	0	0	0	0	2
CEITEC BUT										
Natural sciences, mathematics and statistics	05	0	0	0	0	0	0	18	3	21
Department total	**X**	**0**	**0**	**0**	**0**	**0**	**0**	**18**	**3**	**21**
Of which number of women at CEITEC BUT	X	0	0	0	0	0	0	11	1	12
Of which number of foreigners at CEITEC BUT	X	0	0	0	0	0	0	11	2	13
Brno University of Technology										
Arts and humanities	02	72	0	0	0	49	0	7	1	129
Social sciences, journalism and information sciences	03	0	0	0	0	35	0	0	0	35
Business, administration and law	04	297	0	0	0	194	64	3	9	567
Natural sciences, mathematics and statistics	05	88	0	0	0	100	6	29	4	227
Information and communication technologies	06	428	0	0	0	205	0	7	29	669
Technology, manufacturing and construction	07	1,210	31	0	0	1,019	44	53	129	2,486
Services	10	6	0	0	0	5	0	0	0	11
University TOTAL	**X**	**2,101**	**31**	**0**	**0**	**1,607**	**114**	**99**	**172**	**4,124**
Of which number of women total	X	589	8	0	0	518	47	32	41	1,235
Of which number of foreigners total	X	509	5	0	0	362	24	32	27	959

Tab. 5.1: Interest in studying at university

Brno University of Technology		Bachelor's studies				Master's studies				Follow-up Master's studies				Ph.D. studies			
Broadly defined ISCED-F fields	code	Number of applicants (natural persons)	Number of applications	Number of admissions	Number of enrolments for the study	Number of applicants (natural persons)	Number of applications	Number of admissions	Number of enrolments for the study	Number of applicants (natural persons)	Number of applications	Number of admissions	Number of enrolments for the study	Number of applicants (natural persons)	Number of applications	Number of admissions	Number of enrolments for the study
Faculty of Civil Engineering																	
Natural sciences, mathematics and statistics	05	163	163	145	74	0	0	0	0	16	16	12	12	1	1	0	0
Technology, manufacturing and construction	07	1,721	1,959	1,651	1,067	0	0	0	0	513	557	434	389	39	41	31	31
Faculty total	**X**	**1,847**	**2,122**	**1,796**	**1,141**	**0**	**0**	**0**	**0**	**529**	**573**	**446**	**401**	**40**	**42**	**31**	**31**
Faculty of Mechanical Engineering																	
Arts and humanities	02	77	77	25	22	0	0	0	0	17	17	15	13	0	0	0	0
Natural sciences, mathematics and statistics	05	74	75	41	35	0	0	0	0	50	51	34	29	4	4	3	3
Technology, manufacturing and construction	07	1,550	1,832	1,095	906	0	0	0	0	626	780	554	434	54	54	51	48
Services	10	72	72	39	37	0	0	0	0	0	0	0	0	0	0	0	0
Faculty total	**X**	**1,707**	**2,056**	**1,200**	**1,000**	**0**	**0**	**0**	**0**	**684**	**848**	**603**	**476**	**58**	**58**	**54**	**51**
Faculty of Electrical Engineering and Communication																	
Arts and humanities	02	80	80	42	42	0	0	0	0	0	0	0	0	0	0	0	0
Information and communication technologies	06	398	403	231	223	0	0	0	0	83	83	58	58	16	16	11	8
Technology, manufacturing and construction	07	1,365	1,583	861	774	0	0	0	0	622	721	414	376	46	46	43	39
Faculty total	**X**	**1,745**	**2,066**	**1,134**	**1,039**	**0**	**0**	**0**	**0**	**692**	**804**	**472**	**434**	**61**	**62**	**54**	**47**
Faculty of Architecture																	
Technology, manufacturing and construction	07	547	549	180	128	0	0	0	0	119	119	95	89	10	10	7	6
Faculty total	**X**	**547**	**549**	**180**	**128**	**0**	**0**	**0**	**0**	**119**	**119**	**95**	**89**	**10**	**10**	**7**	**6**
Faculty of Chemistry																	
Natural sciences, mathematics and statistics	05	573	615	435	230	0	0	0	0	118	126	108	96	27	27	25	24
Technology, manufacturing and construction	07	280	303	219	117	0	0	0	0	65	66	47	41	4	4	4	4
Faculty total	**X**	**792**	**918**	**654**	**347**	**0**	**0**	**0**	**0**	**177**	**192**	**155**	**137**	**31**	**31**	**29**	**28**
Faculty of Business and Management																	
Social sciences, journalism and information sciences	03	0	0	0	0	0	0	0	0	79	79	23	23	0	0	0	0
Business, administration and law	04	2,080	2,297	912	912	0	0	0	0	550	611	345	339	16	16	9	9
Faculty total	**X**	**2,080**	**2,297**	**912**	**912**	**0**	**0**	**0**	**0**	**591**	**690**	**368**	**362**	**16**	**16**	**9**	**9**

Brno University of Technology		Bachelor's studies				Master's studies				Follow-up Master's studies				Ph.D. studies			
Broadly defined ISCED-F fields	code	Number of applicants (natural persons)	Number of applications	Number of admissions	Number of enrolments for the study	Number of applicants (natural persons)	Number of applications	Number of admissions	Number of enrolments for the study	Number of applicants (natural persons)	Number of applications	Number of admissions	Number of enrolments for the study	Number of applicants (natural persons)	Number of applications	Number of admissions	Number of enrolments for the study
Faculty of Fine Arts																	
Arts and humanities	02	622	635	72	67	0	0	0	0	123	125	55	47	17	17	8	8
Faculty total	**X**	**622**	**635**	**72**	**67**	**0**	**0**	**0**	**0**	**123**	**125**	**55**	**47**	**17**	**17**	**8**	**8**
Faculty of Information Technology																	
Information and communication technologies	06	1,650	1,650	888	776	0	0	0	0	407	422	286	196	36	37	28	26
Faculty total	**X**	**1,650**	**1,650**	**888**	**776**	**0**	**0**	**0**	**0**	**407**	**422**	**286**	**196**	**36**	**37**	**28**	**26**
Institute of Forensic Engineering																	
Technology, manufacturing and construction	07	0	0	0	0	0	0	0	0	163	167	131	117	8	10	4	4
Services	10	0	0	0	0	0	0	0	0	60	60	45	41	0	0	0	0
Department total	**X**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**221**	**227**	**176**	**158**	**8**	**10**	**4**	**4**
Centre of Sports Activities																	
Technology, manufacturing and construction	07	65	65	35	32	0	0	0	0	0	0	0	0	0	0	0	0
Department total	**X**	**65**	**65**	**35**	**32**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
CEITEC BUT																	
Natural sciences, mathematics and statistics	05	0	0	0	0	0	0	0	0	0	0	0	0	61	64	31	20
Department total	**X**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**61**	**64**	**31**	**20**
Brno University of Technology																	
Arts and humanities	02	773	792	139	131	0	0	0	0	140	142	70	60	17	17	8	8
Social sciences, journalism and information sciences	03	0	0	0	0	0	0	0	0	79	79	23	23	0	0	0	0
Business, administration and law	04	2,080	2,297	912	912	0	0	0	0	550	611	345	339	16	16	9	9
Natural sciences, mathematics and statistics	05	809	853	621	339	0	0	0	0	184	193	154	137	93	96	59	47
Information and communication technologies	06	1,983	2,053	1,119	999	0	0	0	0	488	505	344	254	52	53	39	34
Technology, manufacturing and construction	07	5,164	6,291	4,041	3,024	0	0	0	0	2,060	2,410	1,675	1,446	161	165	140	132
Services	10	72	72	39	37	0	0	0	0	60	60	45	41	0	0	0	0
University TOTAL	**X**	**10,001**	**12,358**	**6,871**	**5,442**	**0**	**0**	**0**	**0**	**3,387**	**4,000**	**2,656**	**2,300**	**337**	**347**	**255**	**230**

Tab. 6.1: Academic and research staff and other staff, total (average numbers)

Brno University of Technology		Academic staff							Scientific and professional staff				
	Total academic staff	Professors	Associate Professors	Assistant Professors	Assistants	Lecturers	Scientific, research and development workers involved in pedagogical activities	Extraordinary professors	Postdoctoral researchers ("postdoc")	Researchers not falling into other categories	Other scientific, research and development workers	Other employees	Total employees
Faculty of Civil Engineering	278.062	38.014	66.882	142.252	29.914	1.000			1.221	11.868		168.117	459.268
of which women	73.085	3.690	9.553	48.243	11.599	0.000				2.395		99.231	174.711
Faculty of Mechanical Engineering	332.336	34.907	80.689	160.870	47.125	3.401	5.344		19.487	80.793		146.664	579.280
of which women	37.734	0.100	3.960	22.188	9.486	1.000	1.000		1.863	14.078		91.471	145.146
Faculty of Electrical Engineering and Communication	222.687	26.928	77.655	103.582	14.151	0.333	0.038		16.320	102.233		96.506	437.746
of which women	40.557	1.050	11.630	19.484	8.210	0.183	0.000		2.143	10.000		60.885	113.585
Faculty of Architecture	48.842	4.600	8.700	20.978	13.489			1.075		0.850		33.379	83.071
of which women	16.548	2.100	2.000	6.209	5.164			1.075		0.450		22.730	39.728
Faculty of Chemistry	69.266	14.200	15.000	34.851	0.500	0.800	3.915		3.896	29.421		69.058	171.641
of which women	27.023	2.551	6.000	14.757	0.000	0.800	2.915		1.853	15.044		52.945	96.865
Fakula podnikatelská	65.625	7.355	19.948	30.636	3.280	4.406				0.675		38.024	104.324
of which women	26.343	2.000	7.000	12.511	2.614	2.218				0.000		28.426	54.769
Faculty of Fine Arts	58.783	3.235	12.932	16.386	25.630	0.600			0.213	2.665		26.216	87.877
of which women	21.769	1.000	1.000	9.333	10.436	0.000			0.213	1.767		17.218	40.967
Faculty of Information Technology	62.931	7.366	21.219	31.473	1.516	1.357			10.213	61.555		82.337	217.036
of which women	3.999	0.000	0.900	3.099	0.000	0.000			1.244	1.896		55.693	62.832
Institute of Forensic Engineering	14.618	1.200	3.200	8.385	1.833							11.022	25.640
of which women	3.629	0.000	0.000	2.796	0.833							8.133	11.762
Centre of Sports Activities	16.421		1.100	8.824	6.497							15.857	32.278
of which women	7.688		0.000	5.191	2.497							12.159	19.847
CEITEC BUT	28.797	0.300		1.150			27.347		42.543	167.711		66.585	305.636
of which women	1.914	0.300		0.250			1.364		18.453	44.335		43.111	107.813
Other workplaces total	**1.000**			**1.000**								**503.707**	**504.707**
Number of women in other workplaces	0.000											317.204	317.204
TOTAL	**1,199.368**	**138.105**	**307.325**	**560.387**	**143.935**	**11.897**	**36.644**	**1.075**	**93.893**	**457.771**	**0.000**	**1,257.472**	**3,008.504**
Total of women	260.289	12.791	42.043	144.061	50.839	4.201	5.279	1.075	25.769	89.965	0.000	809.206	1,185.229

Tab. 6.2: The age structure of academic, scientific and other staff (numbers of natural persons)

Brno University of Technology	Academic staff														Scientific and professional staff						Other employees		Total	Of which women
	Professors		Associate professors		Assistant professors		Assistants		Lecturers		Scientific, research and development staff involved in pedagogical activities		Extra-ordinary professors		Postdoctoral researchers ("postdoc")		Researchers not falling into other categories		Other researchers, researchers and developers					
	total	women	total	women	total	women	total	women	total	women	total	women	total	women	total	women	total	women	total	women	total	women		
Up to 29 years					7	1	49	8	3	3					22	7	355	86			118	39	554	144
30–39 years			32	4	208	41	53	12	6	1	22	3			152	39	178	31			248	133	899	264
40–49 years	31	1	159	18	312	81	41	19	4	2	16	2	1	1	6	1	108	24			442	304	1,120	453
50–59 years	30	4	82	11	67	28	18	6	2	1	3	1					36	7			363	267	601	325
60–69 years	50	7	44	11	42	21	13	10	4	1	2	0					17	1			210	121	382	172
More than 70 years	54	6	38	2	12	3	1										11	1			43	21	159	33
TOTAL	**165**	**18**	**355**	**46**	**648**	**175**	**175**	**55**	**19**	**8**	**43**	**6**	**1**	**1**	**180**	**47**	**705**	**150**	**0**	**0**	**1,424**	**885**	**3,715**	**1,391**

Tab. 6.3: Numbers of academic and scientific staff according to the range of work load and the highest achieved qualification (numbers of natural persons according to the range of work load)

Brno University of Technology	Academic staff								Scientific staff		Total	Of whom women
Faculty of Civil Engineering												
Range of work load	prof.		assoc. prof.		DrSc., CSc., Dr., Ph.D., Th.D.		others					
	total	women	total	women	total	women	total	women	total	women		
Up to 0,3	2	1	6		14	5	10	2	19	5	51	13
0,31–0,5	3	1	5		17	7	2	1	4		31	9
0,51–0,7	1		3	2	13	6	5	4	1	1	23	13
0,71–1	36	3	61	9	123	38	16	5	6	1	242	56
More than 1											0	0
TOTAL	**42**	**5**	**75**	**11**	**167**	**56**	**33**	**12**	**30**	**7**	**347**	**91**
Faculty of Mechanical Engineering												
Range of work load	prof.		assoc. prof.		DrSc., CSc., Dr., Ph.D., Th.D.		others					
	total	women	total	women	total	women	total	women	total	women		
Up to 0,3	8	1	13	2	22	4	12	1	44	6	99	14
0,31–0,5	2		8		20	2	8	1	29	6	67	9
0,51–0,7	4		9		19	3	12	2	27	6	71	11
0,71–1	32		67	4	146	20	22	7	59	8	326	39
More than 1											0	0
TOTAL	**46**	**1**	**97**	**6**	**207**	**29**	**54**	**11**	**159**	**26**	**563**	**73**
Faculty of Electrical Engineering and Communication												
Range of work load	prof.		assoc. prof.		DrSc., CSc., Dr., Ph.D., Th.D.		others					
	total	women	total	women	total	women	total	women	total	women		
Up to 0,3	4	1	5		9	2	2	2	58	8	78	13
0,31–0,5	3		7	2	11	1	2	1	34	8	57	12
0,51–0,7	1		1		10	3	1	1	26	2	39	6
0,71–1	23	1	75	10	90	17	10	6	70	6	268	40
More than 1									2		2	0
TOTAL	**31**	**2**	**88**	**12**	**120**	**23**	**15**	**10**	**190**	**24**	**444**	**71**
Faculty of Architecture												
Range of work load	prof.		assoc. prof.		DrSc., CSc., Dr., Ph.D., Th.D.		others					
	total	women	total	women	total	women	total	women	total	women		
Up to 0,3			1		1		5	2	4	3	11	5
0,31–0,5	2	1	1		3		9	4			15	5
0,51–0,7	2	2			4	4	2				8	6
0,71–1	3	1	8	2	15	4	8	2			34	9
More than 1											0	0
TOTAL	**7**	**4**	**10**	**2**	**23**	**8**	**24**	**8**	**4**	**3**	**68**	**25**

Brno University of Technology	Academic staff								Scientific staff		Total	Of whom women
Faculty of Chemistry												
Range of work load	prof.		assoc. prof.		DrSc., CSc., Dr., Ph.D., Th.D.		others					
	total	women	total	women	total	women	total	women	total	women		
Up to 0,3	1				4	3			19	9	24	12
0,31–0,5	1				3	2	1		16	9	21	11
0,51–0,7	2	1			2	1			6	4	10	6
0,71–1	11	2	15	6	33	14	1	1	19	8	79	31
More than 1											0	0
TOTAL	**15**	**3**	**15**	**6**	**42**	**20**	**2**	**1**	**60**	**30**	**134**	**60**
Faculty of Business and Management												
Range of work load	prof.		assoc. prof.		DrSc., CSc., Dr., Ph.D., Th.D.		others					
	total	women	total	women	total	women	total	women	total	women		
Up to 0,3	3		1		4	1	2	1	1		11	2
0,31–0,5	3		1		3	1	2	1			9	2
0,51–0,7	1				1	1	1				3	1
0,71–1	5	2	19	7	31	14	3	2			58	25
More than 1											0	0
TOTAL	**12**	**2**	**21**	**7**	**39**	**17**	**8**	**4**	**1**	**0**	**81**	**30**
Faculty of Fine Arts												
Range of work load	prof.		assoc. prof.		DrSc., CSc., Dr., Ph.D., Th.D.		others					
	total	women	total	women	total	women	total	women	total	women		
Up to 0,3			2		3		4	3	6	5	15	8
0,31–0,5			1		4	3	1	1	2	1	8	5
0,51–0,7	2				2	2	2				6	2
0,71–1	2	1	12	1	11	6	21	8			46	16
More than 1											0	0
TOTAL	**4**	**1**	**15**	**1**	**20**	**11**	**28**	**12**	**8**	**6**	**75**	**31**
Faculty of Information Technology												
Range of work load	prof.		assoc. prof.		DrSc., CSc., Dr., Ph.D., Th.D.		others					
	total	women	total	women	total	women	total	women	total	women		
Up to 0,3			1		4	1			55	4	60	5
0,31–0,5	2		3		2				24		31	0
0,51–0,7			2		5				18	2	25	2
0,71–1	7		19	1	27	3			44	1	97	5
More than 1											0	0
TOTAL	**9**	**0**	**25**	**1**	**38**	**4**	**0**	**0**	**141**	**7**	**213**	**12**

Brno University of Technology	Academic staff								Scientific staff		Total	Of whom women
Institute of Forensic Engineering												
Range of work load	prof.		assoc. prof.		DrSc., CSc., Dr., Ph.D., Th.D.		others					
	total	women	total	women	total	women	total	women	total	women		
Up to 0,3	1		1		1	1					3	1
0,31–0,5					1	1					1	1
0,51–0,7											0	0
0,71–1	1		3		8	3	1				13	3
More than 1											0	0
TOTAL	**2**	**0**	**4**	**0**	**10**	**5**	**1**	**0**	**0**	**0**	**17**	**5**
Centre of Sports Activities												
Range of work load	prof.		assoc. prof.		DrSc., CSc., Dr., Ph.D., Th.D.		others					
	total	women	total	women	total	women	total	women	total	women		
Up to 0,3			1		4	3					5	3
0,31–0,5					1						1	0
0,51–0,7											0	0
0,71–1			1		9	6	5	1			15	7
More than 1											0	0
TOTAL	**0**	**0**	**2**	**0**	**14**	**9**	**5**	**1**	**0**	**0**	**21**	**10**
CEITEC BUT												
Range of work load	prof.		assoc. prof.		DrSc., CSc., Dr., Ph.D., Th.D.		others					
	total	women	total	women	total	women	total	women	total	women		
Up to 0,3					4	2			56	23	60	25
0,31–0,5			1	1	4	1			58	16	63	18
0,51–0,7	1		2						48	13	51	13
0,71–1	3		2		18				130	42	153	42
More than 1											0	0
TOTAL	**4**	**0**	**5**	**1**	**26**	**3**	**0**	**0**	**292**	**94**	**327**	**98**
Other workplaces total												
Range of work load	prof.		assoc. prof.		DrSc., CSc., Dr., Ph.D., Th.D.		others					
	total	women	total	women	total	women	total	women	total	women		
Up to 0,3											0	0
0,31–0,5											0	0
0,51–0,7											0	0
0,71–1					1						1	0
More than 1											0	0
TOTAL	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**0**

Brno University of Technology	Academic staff								Scientific staff		Total	Of whom women
Brno University of Technology												
Range of work load	**prof.**		**assoc. prof.**		**DrSc., CSc., Dr., Ph.D., Th.D.**		**others**					
	total	**women**	**total**	**women**	**total**	**women**	**total**	**women**	**total**	**women**		
Up to 0,3	19	3	31	2	70	22	35	11	262	63	417	101
0,31–0,5	16	2	27	3	69	18	25	9	167	40	304	72
0,51–0,7	14	3	17	2	56	20	23	7	126	28	236	60
0,71–1	123	10	282	40	512	125	87	32	328	66	1,332	273
More than 1	0	0	0	0	0	0	0	0	2	0	2	0
TOTAL	**172**	**18**	**357**	**47**	**707**	**185**	**170**	**59**	**885**	**197**	**2,291**	**506**
University TOTAL	**172**	**18**	**357**	**47**	**707**	**185**	**170**	**59**	**885**	**197**	**2,291**	**506**

Tab. 6.4: Leading personnel (natural persons)

Brno University of Technology	Rector/Dean	Vice-Rector/Vice-Dean	Academic Senate	Scientific/Artistic/ Academic Council	Quaestor/Secretary	Board of Directors	Director of an institute, university agricultural or forest farm	Head of department/ institute/research facility	Leading personnel total
Rectorate	1	6	28	50	1	16			102
of which women	0	2	5	7	1	2			17
Faculty of Civil Engineering	1	5	40	43	1			22	112
of which women	0	0	7	4	1			1	13
Faculty of Mechanical Engineering	1	4	36	37	1			15	94
of which women	0	1	2	0	0			1	4
Faculty of Electrical Engineering and Communication Technologies	1	4	19	31	1			14	70
of which women	0	1	4	3	0			1	9
Faculty of Architecture	1	5	13	21	1			8	49
of which women	0	1	4	6	0			1	12
Faculty of Chemistry	1	4	15	24	1			5	50
of which women	0	1	4	6	0			1	12
Faculty of Business and Management	1	5	20	27	1			4	58
of which women	0	1	9	8	0			1	19
Faculty of Fine Arts	1	6	12	21	1			21	62
of which women	0	3	6	9	1			6	25
Faculty of Information Technology	1	6	12	33	1			5	58
of which women	0	0	0	3	0			0	3
IFE, CEITEC BUT and CESA				31	2		3	20	56
of which women				5	0		1	2	8

Brno University of Technology	Rector/Dean	Vice-Rector/Vice-Dean	Academic Senate	Scientific/Artistic/ Academic Council	Quaestor/Secretary	Board of Directors	Director of an institute, university agricultural or forest farm	Head of department/ institute/research facility	Leading personnel total
Other workplaces total				**0**	**0**		**5**	**0**	**5**
of which women				0	0		2	0	2
Faculties, university institutes and other workplaces, total	**8**	**39**	**167**	**268**	**10**		**8**	**114**	**614**
of which women	0	8	36	44	2		3	14	107
University TOTAL	**9**	**45**	**195**	**318**	**11**	**16**	**8**	**114**	**716**
of which women	0	10	41	51	3	2	3	14	124

Tab. 6.5: Academic and research staff with foreign citizenship (recalculated average numbers)

Brno University of Technology	Academic staff						Scientific and professional staff			Other employees
	Professors	Associate professors	Assistant professors	Assistants	Lectureres	Scientific. research and development workers involved in pedagogical activities	Postdoctoral students ("postdoc")	Researchers not falling into other categories	Other scientific. research and development workers	
Faculty of Civil Engineering	0.000	1.000	4.830	2.150	0.000	0.000	0.000	0.970	0.000	3.760
of which: Germany										
Poland										
Austria								0.170		
Slovakia		1.000	3.830	1.150				0.800		3.760
Other EU states										
Other states outside EU			1.000	1.000						
Women from the total number (regardless of citizenship)			0.930	1.650				0.200		1.100
Faculty of Mechanical Engineering	0.000	0.150	7.000	5.470	0.000	0.000	4.254	14.446	0.000	3.600
of which: Germany										
Poland										
Austria		0.150								
Slovakia			6.000	4.970			2.789	10.511		3.000
Other EU states								0.100		
Other states outside EU			1.000	0.500			1.465	3.835		0.600
Women from the total number (regardless of citizenship)			1.000	1.350			1.650	4.650		2.500

Brno University of Technology	Academic staff						Scientific and professional staff			Other employees
	Professors	Associate professors	Assistant professors	Assistants	Lectureres	Scientific. research and development workers involved in pedagogical activities	Postdoctoral students ("postdoc")	Researchers not falling into other categories	Other scientific. research and development workers	
Faculty of Electrical Engineering and Communication	1.000	2.000	6.000	1.000	0.400	0.100	3.100	19.172	0.000	2.975
of which: Germany								1.000		1.000
Poland										
Austria										
Slovakia		2.000	3.000		0.400	0.100	2.350	8.222		1.050
Other EU states								0.500		0.925
Other states outside EU	1.000		3.000	1.000			0.750	9.450		
Women from the total number (regardless of citizenship)		1.000	2.000		0.400		1.750	2.600		1.925
Faculty of Architecture	1.500	1.000	0.000	4.500	0.000	0.000	0.000	0.000	0.000	0.000
of which: Germany										
Poland	1.000			1.650						
Austria										
Slovakia	0.500	1.000		0.200						
Other EU states				1.000						
Other states outside EU				1.650						
Women from the total number (regardless of citizenship)	1.500	1.000		0.650						
Faculty of Chemistry	1.000	0.000	1.500	0.000	0.000	0.000	2.850	5.550	0.000	2.650
of which: Germany										
Poland										
Austria										
Slovakia	1.000		1.500				2.850	2.750		1.000
Other EU states								0.750		
Other states outside EU								2.050		1.650
Women from the total number (regardless of citizenship)			1.500				0.950	3.000		1.650
Faculty of Business and Management	0.250	1.000	1.100	0.000	0.000	0.000	0.000	0.300	0.000	0.000
of which: Germany										
Poland										
Austria										
Slovakia	0.250		1.100							
Other EU states										
Other states outside EU		1.000						0.300		
Women from the total number (regardless of citizenship)			1.100							

Brno University of Technology	Academic staff						Scientific and professional staff			Other employees
	Professors	Associate professors	Assistant professors	Assistants	Lectureres	Scientific. research and development workers involved in pedagogical activities	Postdoctoral students ("postdoc")	Researchers not falling into other categories	Other scientific. research and development workers	
Faculty of Fine Arts	0.000	2.000	5.750	2.400	0.000	0.000	0.000	2.900	0.000	2.150
of which: Germany										
Poland										
Austria										
Slovakia		1.000	5.250	1.400				0.900		2.150
Other EU states		1.000		1.000						
Other states outside EU			0.500					2.000		
Women from the total number (regardless of citizenship)			5.750	1.400				2.000		0.800
Faculty of Information Technology	1.000	0.700	1.200	0.000	0.000	0.000	0.000	26.295	0.000	4.500
of which: Germany										
Poland										1.000
Austria										
Slovakia		0.700	0.200					19.435		2.500
Other EU states			1.000							
Other states outside EU	1.000							6.860		1.000
Women from the total number (regardless of citizenship)								1.660		1.000
Institute of Forensic Engineering	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
of which: Germany										
Poland										
Austria										
Slovakia			1.000							
Other EU states										
Other states outside EU										
Women from the total number (regardless of citizenship)										
Centre of Sports Activities	0.000	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	1.600
of which: Germany										
Poland										
Austria										
Slovakia				1.000						1.600
Other EU states										
Other states outside EU										
Women from the total number (regardless of citizenship)										

Brno University of Technology	Academic staff						Scientific and professional staff			Other employees
	Professors	Associate professors	Assistant professors	Assistants	Lectureres	Scientific. research and development workers involved in pedagogical activities	Postdoctoral students ("postdoc")	Researchers not falling into other categories	Other scientific. research and development workers	
CEITEC BUT	0.300	0.000	0.200	0.000	0.000	9.750	22.830	43.365	0.000	2.650
of which: Germany	0.300									
Poland						2.000				
Austria						1.500				
Slovakia			0.200			2.200	2.450	15.400		1.650
Other EU states						0.300	2.230	5.070		
Other states outside EU						3.750	18.150	22.895		1.000
Women from the total number (regardless of citizenship)	0.300		0.200			1.000	9.125	18.000		2.350
Other workplaces total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21.275
of which: Germany										
Poland										
Austria										
Slovakia										15.900
Other EU states										
Other states outside EU										5.375
Women from the total number (regardless of citizenship)										7.875
University TOTAL	**5.050**	**7.850**	**28.580**	**16.520**	**0.400**	**9.850**	**33.034**	**112.998**	**0.000**	**45.160**
of which: Germany	0.300	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	1.000
Poland	1.000	0.000	0.000	1.650	0.000	2.000	0.000	0.000	0.000	1.000
Austria	0.000	0.150	0.000	0.000	0.000	1.500	0.000	0.170	0.000	0.000
Slovakia	1.750	5.700	22.080	8.720	0.400	2.300	10.439	58.018	0.000	32.610
Other EU states	0.000	1.000	1.000	2.000	0.000	0.300	2.230	6.420	0.000	0.925
Other states outside EU	2.000	1.000	5.500	4.150	0.000	3.750	20.365	47.390	0.000	9.625
Women from the total number (regardless of citizenship)	1.800	2.000	12.480	5.050	0.400	1.000	13.475	32.110	0.000	19.200

Tab. 6.6: Newly appointed associate professors and professors (numbers)

Brno University of Technology	Number			Age average of newly appointed
	At this university		Own university employees appointed at other universities	
	total	of which regular employees of the university		
Faculty of Civil Engineering				
Professors appointed in 2024	2	2		52.24
of which women	0	0		
Associate professors appointed in 2024	5	5		43.10
of which women	2	2		51.11
Faculty of Mechanical Engineering				
Professors appointed in 2024	3	3		49.97
of which women	0	0		
Associate professors appointed in 2024	7	7		41.47
of which women	1	1		33.02
Faculty of Electrical Engineering and Communication				
Professors appointed in 2024	3	3		42.08
of which women	0	0		
Associate professors appointed in 2024	5	5		36.94
of which women	0	0		
Faculty of Architecture				
Professors appointed in 2024				
of which women				
Associate professors appointed in 2024	1	0		64.14
of which women	0	0		
Faculty of Chemistry				
Professors appointed in 2024	1	0		47.17
of which women	0	0		
Associate professors appointed in 2024				
of which women				
Faculty of Business and Management				
Professors appointed in 2024	1	1		47.46
of which women	0	0		
Associate professors appointed in 2024	3	0		38.27
of which women	0	0		
Faculty of Fine Arts				
Professors appointed in 2024				
of which women				
Associate professors appointed in 2024	2	2		46.52
of which women	0	0		
Faculty of Information Technology				
Professors appointed in 2024	1	1		54.53
of which women	0	0		
Associate professors appointed in 2024	3	3		39.00
of which women	0	0		

Brno University of Technology	Number			Age average of newly appointed
	At this university		Own university employees appointed at other universities	
	total	of which regular employees of the university		
Institute of Forensic Engineering				
Professors appointed in 2024				
of which women				
Associate professors appointed in 2024				
of which women				
TOTAL professors	**11**	**10**		**48.16**
of which women	0	0		
TOTAL associate professors	**26**	**22**		**41.52**
of which women	3	3		45.08

Tab. 7.1: Involvement of the university in international cooperation programmes (regardless of the source of funding)

Brno University of Technology	H2024 / 7th EC Framework Programmes		Others	Total
	total	of which Marie-Curie Actions		
Number of projects	43	10	38	81.00
Number of students sent	8	2	579	587.00
Number of students admitted	1	1	640	641.00
Number of academic and scientific staff sent	109	2	336	445.00
Number of admitted academic and scientific staff	10	7	416	426.00
Subsidies in thous. CZK	558,894	23,808	455,988	1,014,882

Tab. 7.2: Mobility of students, academic and other staff by country (regardless of the source of funding)

Brno University of Technology	Number of students sent			Number of students admitted		Number of academic scientific staff sent	Number of admitted academic staff	Number of other workers sent	Number of other workers admitted	Total for the states
Country	total	of which graduate internships	of which on-line	of which on-line	total					
Islamic Republic of Afghanistan	0	0	0	0	0	0	1	0	0	1
Republic of Albania	0	0	0	0	0	0	1	0	0	1
People's Democratic Republic of Algeria	0	0	0	0	1	0	0	0	0	1
Commonwealth of Australia	2	0	0	0	0	1	1	0	0	4
Kingdom of Belgium	16	0	0	0	4	2	2	2	0	26
Bosnia and Herzegovina	0	0	0	0	11	0	1	0	0	12
Federative Republic of Brazil	0	0	0	0	5	0	1	0	0	6
Republic of Bulgaria	3	0	0	0	5	1	7	0	0	16
Montenegro	0	0	0	0	5	2	0	0	0	7
Czech Republic	0	0	0	0	4	0	3	0	0	7
People's Republic of China	2	0	0	0	6	0	7	0	0	15
Kingdom of Denmark	17	0	0	0	1	0	0	0	0	18
Republic of Estonia	7	0	0	0	7	0	0	0	0	14
Federal Democratic Republic of Ethiopia	1	0	0	0	0	0	0	0	0	1
Republic of Finland	43	0	0	0	11	2	4	0	0	60
French Republic	20	0	0	0	159	7	5	0	0	191
Georgia	0	0	0	0	1	0	2	2	0	5
Republic of Chile	2	0	0	0	0	0	3	0	0	5
Republic of Croatia	3	0	0	0	4	8	0	1	0	16
Republic of India	1	0	0	0	0	0	9	0	0	10
Islamic Republic of Iran	0	0	0	0	0	0	4	0	0	4
Ireland	7	0	0	0	2	9	1	9	0	28
Republic of Iceland	6	1	0	0	0	2	1	1	0	10
Italian Republic	26	0	0	0	30	17	10	8	0	91
Japan	3	0	0	0	4	0	2	0	0	9
Hashemite Kingdom of Jordan	0	0	0	0	1	0	0	0	0	1
Canada	5	0	0	0	0	1	0	0	0	6
Republic of Kenya	0	0	0	0	0	0	1	0	0	1
Republic of Colombia	0	0	0	0	1	0	0	0	0	1
Democratic People's Republic of Korea	3	0	0	0	0	0	0	0	0	3
Republic of Korea	10	0	0	0	7	0	1	0	0	18
Kingdom of Saudi Arabia	0	0	0	0	0	0	1	0	0	1
Republic of Cyprus	3	0	0	0	0	3	0	0	0	6
Principality of Liechtenstein	1	0	0	0	0	0	0	0	0	1
Republic of Lithuania	4	0	0	0	23	6	1	0	0	34
Republic of Latvia	4	0	0	0	8	2	6	1	0	21
Grand Duchy of Luxembourg	1	0	0	0	0	0	0	0	0	1

Brno University of Technology	Number of students sent			Number of students admitted		Number of academic scientific staff sent	Number of admitted academic staff	Number of other workers sent	Number of other workers admitted	Total for the states
Country	total	of which graduate internships	of which on-line	of which on-line	total					
Hungary	6	0	0	0	8	4	3	1	0	22
Republic of Malta	11	0	0	0	6	7	1	6	0	31
Kingdom of Morocco	1	0	0	0	1	0	0	0	0	2
Kingdom of the Netherlands	19	2	0	0	7	1	4	0	0	31
Kingdom of Norway	28	1	0	0	2	3	0	1	0	34
Islamic Republic of Pakistan	0	0	0	0	0	0	2	0	0	2
Republic of Poland	16	0	0	0	21	17	21	1	0	76
Portuguese Republic	36	7	0	0	49	9	0	3	0	97
Republic of Austria	63	4	0	0	7	21	16	1	0	108
Republic of Kazakhstan	0	0	0	0	3	0	0	0	0	3
Republic of North Macedonia	0	0	0	0	1	0	0	0	0	1
Romania	2	0	0	0	13	5	4	1	0	25
Russian Federation	0	0	0	0	0	0	1	0	0	1
Hellenic Republic	11	2	0	0	18	5	1	5	0	40
Slovak Republic	10	0	0	0	11	6	6	0	0	33
Republic of Slovenia	16	0	0	0	9	4	2	1	0	32
United Kingdom of Great Britain and Northern Ireland	11	0	0	0	0	0	13	0	0	24
United States of America	11	0	0	0	9	1	6	0	0	27
United Mexican States	0	0	0	0	4	0	0	1	0	5
Federal Republic of Germany	71	4	0	0	26	9	7	2	0	115
Republic of Serbia	2	1	0	0	2	1	7	0	0	12
State of Israel	0	0	0	0	0	0	4	0	0	4
United Arab Emirates	1	0	0	0	0	0	0	0	0	1
Syrian Arab Republic	0	0	0	0	0	0	1	0	0	1
Solomon Islands	0	0	0	0	0	0	1	0	0	1
Kingdom of Spain	54	4	0	0	112	12	9	11	0	198
Kingdom of Sweden	19	2	0	0	0	1	1	0	0	21
Swiss Confederation	15	0	0	0	4	1	4	0	0	24
Kingdom of Thailand	0	0	0	0	0	1	0	0	0	1
Taiwan	3	0	0	0	20	0	3	1	0	27
Republic of Tunisia	0	0	0	0	2	0	0	0	0	2
Republic of Türkiye	5	0	0	0	38	0	3	1	0	47
Ukraine	0	0	0	0	0	0	2	0	0	2
Republic of Zambia	2	0	0	0	0	0	0	0	0	2
Others	0	0	0	0	0	0	1	0	0	1
TOTAL	**603**	**28**	**0**	**0**	**673**	**171**	**198**	**60**	**0**	**1,705**

Tab. 7.3: Mobility of graduates (numbers and shares of completed studies)

Brno University of Technology	Bachelor's studies		Master's studies		Follow-up Master's studies		Ph.D. studies		Total	
	proportion	number	proportion	number	proportion	number	proportion	number	proportion	number
Faculty of Civil Engineering										
Proportion [%] and number of graduates who went on a stay abroad for at least 14 days during their studies	4.5%	18			8.5%	32	16.1%	10	7.1%	60
Proportion [%] and number of doctoral graduates with a length of stay abroad of at least 1 month (i.e. 30 days)							6.5%	4	6.5%	4
Faculty of Mechanical Engineering										
Proportion [%] and number of graduates who went on a stay abroad for at least 14 days during their studies	0.8%	4			18.5%	70	24.1%	19	10.0%	93
Proportion [%] and number of doctoral graduates with a length of stay abroad of at least 1 month (i.e. 30 days)							21.5%	17	21.5%	17
Faculty of Electrical Engineering and Communication										
Proportion [%] and number of graduates who went on a stay abroad for at least 14 days during their studies	0.3%	1			10.8%	31	56.8%	21	7.6%	53
Proportion [%] and number of doctoral graduates with a length of stay abroad of at least 1 month (i.e. 30 days)							51.4%	19	51.4%	19
Faculty of Architecture										
Proportion [%] and number of graduates who went on a stay abroad for at least 14 days during their studies	47.14%	33			39.7%	25	0.0%	0	43.0%	58
Proportion [%] and number of doctoral graduates with a length of stay abroad of at least 1 month (i.e. 30 days)							0.0%	0	0.0%	0
Faculty of Chemistry										
Proportion [%] and number of graduates who went on a stay abroad for at least 14 days during their studies	3.1%	4			10.8%	11	42.1%	8	9.2%	23
Proportion [%] and number of doctoral graduates with a length of stay abroad of at least 1 month (i.e. 30 days)							42.1%	8	42.1%	8
Faculty of Business and Management										
Proportion [%] and number of graduates who went on a stay abroad for at least 14 days during their studies	2.0%	6			7.1%	21	66.7%	8	5.8%	35
Proportion [%] and number of doctoral graduates with a length of stay abroad of at least 1 month (i.e. 30 days)							58.3%	7	58.3%	7

Brno University of Technology	Bachelor's studies		Master's studies		Follow-up Master's studies		Ph.D. studies		Total	
	proportion	number	proportion	number	proportion	number	proportion	number	proportion	number
Faculty of Fine Arts										
Proportion [%] and number of graduates who went on a stay abroad for at least 14 days during their studies	37.5%	15			8.3%	3	87.5%	7	29.8%	25
Proportion [%] and number of doctoral graduates with a length of stay abroad of at least 1 month (i.e. 30 days)							87.5%	7	87.5%	7
Faculty of Information Technology										
Proportion [%] and number of graduates who went on a stay abroad for at least 14 days during their studies	3.6%	12			16.4%	25	19.2%	5	8.2%	42
Proportion [%] and number of doctoral graduates with a length of stay abroad of at least 1 month (i.e. 30 days)							19.2%	5	19.2%	5
Institute of Forensic Engineering										
Proportion [%] and number of graduates who went on a stay abroad for at least 14 days during their studies	0.0%	0	0.0%	0.0	0.0%	0	80.0%	4	11.8%	4
Proportion [%] and number of doctoral graduates with a length of stay abroad of at least 1 month (i.e. 30 days)							40.0%	2	40.0%	2
Centre of Sports Activities										
Proportion [%] and number of graduates who went on a stay abroad for at least 14 days during their studies	10.00%	1			0.0%	0	0.0%	0	10.0%	1
Proportion [%] and number of doctoral graduates with a length of stay abroad of at least 1 month (i.e. 30 days)							0.0%	0	0.0%	0
CEITEC BUT										
Proportion [%] and number of graduates who went on a stay abroad for at least 14 days during their studies	0.0%	0	0.0%	0.0	0.0%	0	66.7%	14	66.7%	14
Proportion [%] and number of doctoral graduates with a length of stay abroad of at least 1 month (i.e. 30 days)							66.7%	14	66.7%	14
Brno University of Technology										
Proportion [%] and number of graduates who went on a stay abroad for at least 14 days during their studies	4.4%	94	0.0%	0.0	12.7%	218	35.4%	96	9.9%	408
Proportion [%] and number of doctoral graduates with a length of stay abroad of at least 1 month (i.e. 30 days)							30.6%	83	30.6%	83
Brno University of Technology	**4.4%**	**94**	**0.0%**	**0.0**	**12.7%**	**218**	**30.6%**	**96**	**9.9%**	**408**

Tab. 8.1: Conferences (co-)organized by the university (numbers)

Brno University of Technology	With the number of participants greater than 60		International conference	
	physical	virtual	physical	virtual
Faculty of Civil Engineering	5	0	2	0
Faculty of Mechanical Engineering	2	0	5	0
Faculty of Electrical Engineering and Communication Technologies	4	1	6	1
Faculty of Architecture	1	0	1	0
Faculty of Chemistry	0	0	4	0
Faculty of Business and Management	2	0	0	0
Faculty of Fine Arts	2	0	0	0
Faculty of Information Technology	3	0	1	
Institute of Forensic Engineering	1	0	0	0
Centre of Sports Activities	0	0	0	0
CEITEC BUT	1	0	1	0
TOTAL	**21**	**1**	**20**	**1**

Tab. 8.2: Experts from the application sphere participating in teaching and practice in accredited study programmes (numbers)

Brno University of Technology	Persons having an employment relationship with the university or part of the university			Persons not having an employment relationship with the university or part of the university		
	Number of persons participating in teaching	Number of persons involved in the supervision of the final thesis	Number of persons involved in providing internships	Number of persons participating in teaching	Number of persons involved in the supervision of the final thesis	Number of persons involved in providing internships
Faculty of Civil Engineering	8	5	0	9	5	16
of which women	1	1	0	1	3	9
Faculty of Mechanical Engineering	24	6	0	165	89	35
of which women	5	0	0	21	15	4
Faculty of Electrical Engineering and Communication Technologies	73	53	5	12	20	8
of which women	6	4	1	1	2	1
Faculty of Architecture	35	13	4	18	0	130
of which women	7	1	0	7	0	15
Faculty of Chemistry	36	12	0	0	19	45
of which women	11	5	0	0	1	11
Faculty of Business and Management	20	5	0	79	0	145
of which women	10	1	0	23	0	61
Faculty of Fine Arts	35	24	0	8	2	0
of which women	13	10	0	4	1	0

Brno University of Technology	Persons having an employment relationship with the university or part of the university			Persons not having an employment relationship with the university or part of the university		
	Number of persons participating in teaching	Number of persons involved in the supervision of the final thesis	Number of persons involved in providing internships	Number of persons participating in teaching	Number of persons involved in the supervision of the final thesis	Number of persons involved in providing internships
Faculty of Information Technology	0	0	0	0	0	0
of which women	0	0	0	0	0	0
Institute of Forensic Engineering	13	0	0	0	0	0
of which women	2	0	0	0	0	0
Centre of Sports Activities	13	0	0	0	23	0
of which women	5	0	0	0	5	0
CEITEC BUT	0	0	0	0	0	0
of which women	0	0	0	0	0	0
TOTAL	**257**	**118**	**9**	**291**	**158**	**379**
of which women	60	22	1	57	27	101

Tab. 8.3: Fields of study/programmes which, in their content, have compulsory completion of professional practice for a period of at least 1 month (numbers)

Brno University of Technology	Number of fields of study/ programmes	Number of active studies					
		Bachelor's studies		Master's studies		Follow-up Master's studies	
		Academic profile	Professional profile	Academic profile	Professional profile	Academic profile	Professional profile
Faculty of Civil Engineering	4	201	264			53	98
Faculty of Mechanical Engineering	1	0	76			0	0
Faculty of Architecture	2	0	415			0	0
Faculty of Chemistry	2	0	55			9	0
Faculty of Business and Management	5	1113	668			0	0
Faculty of Fine Arts	1	0	39			0	0
Centre of Sports Activities	1	0	55			0	0
TOTAL	**16**	**1,314**	**1,572**			**62**	**98**

Tab. 8.4: Transfer of knowledge and research results into practice

Brno University of Technology	In the Czech Republic	Abroad	Total number	Total revenue
Number of new spin-offs/start-ups			**4**	
Patent applications filed	8	3	**11**	
Granted patents	7	7	**14**	
Registered utility models	34	1	**35**	
License agreements valid as of December 31	74	33	**107**	
Newly concluded license agreements	33	7	**40**	**CZK 10,182,552**
Contract research, consultations and consultancy services			**1 181**	**CZK 176,722,928**
Paid training courses for employees of application spheres			**119**	**CZK 5,964,626**

Summary information on tab. 8.4

	Total number	Total revenue	Average revenue per 1 order
Newly concluded license agreements, contract research, consultations, consultancy services and paid training courses for employees of the application sphere	1,340	CZK 192,870,106	CZK 143,933

Tab. 12.1: Accommodation, meals

Brno University of Technology	Number
Total bed capacity of university dormitories	6,333
Number of beds in rented facilities	0
Number of submitted applications/reservations for accommodation as of 31/12/2024	8,001
Number of positively processed applications/reservations for accommodation as of 31/12/2024	6,289
Number of bed days in 2024	1,624,453
Total number of terminated contracts (pandemics)	0
Total number of modified contracts (pandemics)	0
Total number of contracts with exception (pandemics)	0
Number of main meals issued to students in 2024	602,830
Number of main meals issued in 2024 to university staff	102,379
Number of main meals served in 2024 to other diners	52,661

Tab. 12.2: University libraries

Brno University of Technology	Number
Increase in library stock per year	5,235
of which increase in physical units	5,050
of which an increase in e-books in permanent purchase	185
Total library collection	223,416
of which physical units	220,492
of which e-books in permanent purchase	2,924
Number of subscribed periodical titles:	
physically	261
electronically (estimation)	60
in both forms	10

Tab. 14.1: Strengthening institutional resilience against illegitimate influence – number of incidents and trained persons

Brno University of Technology	Number of trained persons	Number of incidents	
		Reported	Investigated
	21	0	0

BRNO UNIVERSITY OF TECHNOLOGY

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