

IMPLEMENTATION PLAN FOR THE STRATEGIC INTENT

of Educational and Creative Activities
of the Brno University of Technology
for the year **2024**



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The submitted Implementation Plan for the Strategic Intent of Educational and Creative Activities of the Brno University of Technology for the year 2024 was

- discussed by the BUT Scientific Board on 3 November 2023;
- approved by the BUT Academic Senate on 5 December 2023;
- approved by the BUT Administrative Board on 8 December 2023.

doc. Ing. Ladislav Janíček, Ph. D., MBA, LL. M.
Rector of BUT

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Vision

The BUT is a modern, open and internationally renowned technical university, which is built on the following principles:

1. TEACHING AND EDUCATION

- it sees education and teaching as its primary mission;
- it supports the competitiveness of its students and graduates by:
 - building on the connection between teaching and research, developing students' critical thinking and creativity as a critical success factor for its graduates;
 - benefiting from the synergy of its technical, economic and artistic disciplines.

2. RESEARCH AND CREATIVE ACTIVITIES

- it builds its competitive advantage on quality research, knowing research it what makes the BUT a true university;
- it develops close links with the application sphere through applied and contract research;
- it actively manages its know-how and supports its effective transfer into business practice.

3. SERVICE TO SOCIETY

- it uses its technological potential to support social and cultural priorities, in particular the concept of sustainable development, environmental protection and improving the quality of life;
- it is a socially responsible institution that serves as an independent and apolitical knowledge support for its environment;
- it cooperates with the regional and municipal authorities and co-creates the knowledge and socio-cultural character of the region.

4. GOVERNANCE AND INSTITUTIONAL DECISION-MAKING

- it builds its competitive strategy on the potential, quality and motivation of its people;
- it invests in their continuous development, and fairly rewards the quality and performance of its staff in teaching and research;
- it strives to ensure equal opportunities;
- it builds the integrity of the academic community as a unity of students and academic staff;
- it raises awareness about the social responsibility of its students and staff and encourages their participation in society and cultural events.

The Implementation Plan for the BUT Strategic Intent 2024 is structured in accordance with the priority objectives of the Strategic Plan of the Ministry of Education, Youth and Sports for higher education institutions for 2021+ (hereinafter the "SP MEYS 2021+"), with the Implementation Plan for the Strategic Plan of the Ministry of Education, Youth and Sports for 2024, as well as with the BUT Strategic Intent for 2021+ (hereinafter the "SI BUT 2021+").

Priority objectives of the SP MEYS 2021+:

Priority objective 1

Develop competencies directly relevant to life and practice in the 21st century

Priority objective 2

Improve the availability and relevance of flexible forms of education

Priority objective 3

Improve the efficiency and quality of doctoral studies

Priority objective 4

Strengthen strategic management and the effective use of capacities in research and development at BUT

Priority objective 5

Build capacity for the strategic management of BUT

Priority objective 6

Reduce the administrative burden on the staff of BUT so that they can fully pursue their mission

Priority objective D

Other important topics in higher education

The Implementation Plan for the BUT Strategic Intent 2024 also respects the Development Programme for the Support of Strategic Management of Higher Education Institutions (hereinafter the "PSSM"), the aim of which is to contribute to the fulfilment of individual priority objectives of the BUT 2021+ Strategic Intent. Annexed to the Implementation Plan is the 2024 allocation of funds from the PSSM for the individual priority objectives of the BUT.

A report on progress towards objectives of the BUT Strategic Intent 2021+ and on the use of funds from the PSSM for the year 2023 will be submitted to the Ministry by 28 February 2024.

The Implementation Plan for the BUT Strategic Intent for 2024 contains the Outline of the BUT Investment Plan for 2024, which briefly summarises the investment actions included in the Investment Plan for 2024, including the expected implementation process, simultaneously summarising information on the acquisition of machinery and equipment for 2024.

1 Teaching and education

1.1 Accreditation of new study programmes

1C, 1D, 1G

- 1.1.1 Move towards greater integration of study programmes, promote cooperative learning
- 1.1.2 Allow students greater profiling in the form of specialisations or elective courses within the study programmes
- 1.1.3 Support the cooperation of several BUT faculties in the implementation of study programmes
- 1.1.4 Promote the emergence of interdisciplinary studies
- 1.1.5 Increase the proportion of elective courses in the study plans
- 1.1.6 Support the establishment of international study programmes in cooperation with renowned foreign universities
- 1.1.7 Respond to current topics, take advantage of uniqueness
- 1.1.8 Negotiate the expansion of elective courses with other universities (in Brno)

1.2 Implementation of new rules for doctoral studies

- 1.2.1 Introduce competitive scholarships for doctoral students, adjust and financially reward teaching practice 3A
- 1.2.2 Ensure appropriate changes to the BUT Study and Examination Rules, the BUT Scholarship Rules and other internal BUT standards 3C
- 1.2.3 Support the Joint Doctorate regime (COTUTELLE), including the involvement of foreign opponents and trainers 1G
- 1.2.4 Promote dissertations in English, which should be standard at the BUT research faculties 1G, 3C
- 1.2.5 Create a central methodology for the implementation of doctoral study programmes, implement it in the BUT Information System (BUT IS) 3C
- 1.2.6 Finalise the directive on the implementation of "industrial doctorates" based on negotiating the conditions of study and corporate research with partners from industry 3C

1.3 Revision of the BUT internal standards concerning studies and accreditation, also in response to the adoption of the amendment to the Higher Education Institutions Act (HEIA)

- 1.3.1 Revise and modify internal regulations: 1A, 1B, 3D, 5B
 - BUT Study and Examination Rules
 - BUT Scholarship Rules
 - BUT Rules of Lifelong Learning
 - BUT Study Programmes Rules
- 1.3.2 Revise Directive No 67/2017 "Organisation and conduct of evaluation of study programmes" 1B, 3D
- 1.3.3 Revise Directive No 68/2017 "Rules for the discussion of accreditation and study programme proposals in the BUT Internal Evaluation Council (BUT IEC)", including revision of the Rules of Procedure of the BUT Internal Evaluation Council 1F

- 1.3.4 With regard to Directive No 69/2017 "Standards of BUT Study Programmes"
- Incorporate the changes resulting from the amendment to the Higher Education Institutions Act and the Government Regulation on Standards for Accreditation
 - Incorporate the changes resulting from the newly prepared methodologies of the National Accreditation Bureau for Higher Education (NAB), (e.g. permissible share of distance learning in full-time study programmes, unification of the concepts of practice and practical teaching in professional study programmes)
 - Increase the proportion of elective courses and their offer, thus improving the possibility for students to shape their optimal study profile by choosing courses to a certain extent
 - Make it compulsory to take and pass a course in English (so far it is stipulated that a study plan must include at least one compulsory or compulsory elective course in English)
 - Doctoral dissertations at research faculties to be written mainly in English
 - Dedicate the last semester of studies mainly to the final thesis – limit the number of study obligations in the last semester of studies
 - Supplement the standards for distance learning accreditation
- 1.3.5 Revise Directive No 73/2017 "Rules for the evaluation of educational activities by students, BUT graduates and employers"
- 1.3.6 Prepare a new Directive "Rules for the approval of courses with Microcredentials at BUT IEC"
- 1.3.7 Revise Directive No 13/2019 "Education in an internationally recognised course" in connection with the introduction of professional education and training programmes
- 1.4 Creation of a distance education and lifelong learning concept**
- 1.4.1 Create a methodology for distance education
- 1.4.2 Create methodological background for the possible accreditation of study programmes or lifelong learning (LLL) programmes, also in distance form
- 1.5 Support for BUT students and staff**
- 1.5.1 Develop and continue ongoing projects of the counselling centre, including "ALFONS on-line"
- 1.5.2 Support the development and implementation of a system of academic, career and psychological counselling, including mental health care, for BUT students and staff
- 1.6 Support for talented students**
- 1.6.1 Support, especially in the form of scholarships, the successful completion of first year studies at individual BUT faculties and university institutes
- 1.6.2 Support talented athletes
- 1.7 Introduction of a system of pedagogical education and training of academic staff and a system for monitoring and evaluation of the quality of educational activities**
- 1.7.1 Develop a concept for the education and training of academic staff at the beginning and throughout their career
- 1.7.2 Establish a legislative obligation for doctoral students and early career academics to undergo pedagogical education and training
- 1.7.3 Issue a directive on monitoring and evaluation of the quality of educational activities
- 1.7.4 Possibly modify the Career Rules
- 1.7.5 Incorporate the pedagogical education and training of academic staff into the System for the Evaluation of Academic Staff (SHAP)

1.8 Evaluation of doctoral study programmes

1.8.1 Ensure peer review evaluation with participation of foreign evaluators

3C

1.9 Development of professional education and training programmes (MSC studies, micro-study programmes, etc.)

1B, 1F, 2B

1.9.1 Provide methodological support and organisational and administrative support of the BUT Office of Studies for the approval in the BUT IEC

1.9.2 Prepare Directives for the approval of Microcredentials in the BUT IEC in response to Directive No 13/2016 "Education in an internationally recognised course"

1.10 International status of BUT

1G, 5B, 6A

1.10.1 Benchmark with strategic partners (domestic and international) and evaluate the set indicators

- Define rules and priorities for the implementation of activities of the BUT and its faculties and university institutes to improve the domestic and international position and status of the BUT (strategic partnerships/territories, etc.)
- Finalise and implement an electronic system for evaluating international treaties in terms of their use and the development of international cooperation
- Evaluate the effectiveness of the set indicators in individual areas (BUT/F/UI) in relation to the objectives in the field of internationalisation and in relation to the requirements of national and international rankings
- Select and implement other international events with a focus on enhancing the international reputation of the BUT

1.11 Internationalisation of the internal environment

1G, 5B, 6A, 6C

1.11.1 Digitise internal processes within ERASMUS and other activities related to international students and staff

- Complete the update of the English version of the e-application form in cooperation with the Computer and Information Services Centre of the BUT (CIS BUT)
- Digitise internal agendas (digitisation of document transfer for mobility programmes and admission of foreign students to English study programmes)

1.11.2 Develop the Welcome Service and Admission Office services with regard to external and internal needs

1.12 Mobility of BUT students and staff

1C, 1G, 3C

1.12.1 Focus on supporting mobility and scholarship programmes (not only study stays, but also work placements, traineeships, etc.)

- Keep electronic records of all mobility events under mobility programmes
- Define a bilateral mobility plan for 2025
- Make full use of scholarship programmes to support mobility and excellence of staff and students
- Support student events, competitions (according to the relevant list and its ongoing updates)
- Revise the offer of mobility programmes, including the addition of relevant methodological documents for their use

1.13 Joint/Double/Multiple Degree programmes and programmes in English

1G

1.13.1 Focus on promoting a competitive offer of study programmes in English with potential

- Analyse existing and planned study programmes in English at BUT faculties and university institutes (with a focus on utilising the potential of partnerships in the EULiST network)
- Define benchmarking of the offer of study programmes in English at technical universities in the Czech Republic and selected strategic partners
- Revise and adjust the fees for study programmes in English at the BUT (in relation to the amendment of the HEIA)

1.14 Membership of BUT, its faculties and university institutes in international associations, networks, conference programme committees and international institutions

16

- 1.14.1 Continue to develop the University's international cooperation and focus on developing cooperation in the European University Association (EUA) network
- Implement 2 major international events within the framework of partner networks (EULiST – implementation of General Assembly/CESAER – Meeting Task Force Teaching and Learning – Topic: The Future of Technical Education)
 - Enter the competition to organise the CESAER Annual Meeting
 - Successfully set up and implement the acquired EULiST European Alliance project in cooperation with partners and other alliances in the domestic environment
 - Carry out foreign visits with strategic partners and further develop cooperation in strategic territories
 - Define a plan of events for strategic partners and participate in them (active representation of the BUT by involving more BUT staff and students)

1.15 Support for the establishment and operation of start-up and spin-off companies

1A, 1C, 4A, D

- 1.15.1 Apply the established system of support in the administrative, legal and commercial spheres, simplify it, speed it up
- 1.15.2 Support the activities of start-up and spin-off companies, raise awareness, network, consult, mentor, systematically work with BUT students and academic staff
- 1.15.3 Cooperate, use the services of the South Moravian Information Centre (JIC)

1.16 Innovation and Entrepreneurial Ecosystem of BUT (contriBUTe)

1C, D

- 1.16.1 Within contriBUTe
- Complete the kick off of contriBUTe at BUT faculties and university institutes and map the needs in the area of entrepreneurship support, carry out an analytical evaluation of these needs at all BUT faculties and university institutes
 - Consolidate development teams at the BUT Rector's Office, faculties and university institutes
 - Launch web presentation of the contriBUTe
 - Continue to implement 2 roundtables focusing on the topic of "Why to do Business, Why to develop Entrepreneurship", targeting BUT students and employees
 - Continue the implementation of the workshop developing the contriBUTe ecosystem, i.e. implement Innovation Day, presentations of start-up/spin-off projects by BUT students, employees
 - Launch the "Open workshop at FBM BUT", a programme providing open access to entrepreneurship education and training and the opportunity to consult, BUT Business Junior for students of secondary schools
 - Implement the Module for networking and creating student teams with a cross-sectional representation of students from different BUT faculties and university institutes
 - Create a comprehensive programme for the implementation of ideas as a comprehensive offer for BUT students and employees who are interested in entrepreneurship
- 1.16.2 Within GO to BUSINESS!
- Complete the 4th year (02/2024) and launch the 5th year of the BUT Student Entrepreneurship Award (04–05/2024)
 - Support student teams and ideas (financial support, consultation, mentoring, counselling, Open workshops at FBM BUT).
 - Identify a mentor for each advancing team in the competition (business and technical support, BUT infrastructure)
 - Support the establishment of BUT Student Start-ups, modify the statute of BUT Student Start-ups for student companies
 - In the winter semester of the 2024/2025 academic year, launch a pilot follow-up university-wide free subject promoting knowledge in the areas of transfer, intellectual property, investor presentation, market analysis, business plan, etc.

1.17 Support for student activities, teams and associations

1C

- 1.17.1 Support the development of student project teams
- 1.17.2 Financially support student activities at national and international level contributing to the development of the BUT and the improvement of the quality of life of students at the BUT
- 1.17.3 Financially and organisationally support student events and activities to improve the integration of first-year students

1.18 In the field of sport, develop a system of support for sport with a link to modern trends and sports technology

1C, 2A, D

- Update the Concept of Sport at the BUT, in order to increase the quality of teaching, interest in the optional subject of PE, optimise the offer of sports, introduce new form of PE, expand the offer of online education
- Develop staff competencies, innovate and improve the prestige of the study programmes
- Expand cooperation with other entities, support talented students and physical culture and sport at BUT

2 Research, development, transfer, artistic and other creative activities

2.1 Development of standards and quality indicators for research, artistic and other creative activities

4A

- 2.1.1 Update the analysis of the disciplinary breakdown and quality of results according to individual disciplines in response to the following:
- Anticipated updated M17+ methodology settings
 - Preparation of the second phase of the evaluation of research, artistic and other creative activities at the BUT using peer review
- 2.1.2 Prepare the second phase of the evaluation of research, artistic and other creative activities at the BUT using peer review
- 2.1.3 Evaluate the results of the second phase of the evaluation of research, artistic and other creative activities
- 2.1.4 Implement recommendations resulting from the evaluation of research, artistic and other creative activities

2.2 Improving the evaluation of BUT results under the M17+ methodology

4A, 4C

- 2.2.1 Reflect and implement the expected updated M17+ settings in internal methodologies and internal regulations
- 2.2.2 Update and develop the methodology for recording and reporting results in the BUT IS and their assessment and evaluation
- 2.2.3 Complete at least one phase of the implementation of the new BUT IS module for reporting and recording results
- 2.2.4 Make any partial adjustments to the Distribution Rules under the Long-term Conceptual Development of a Research Organisation (LCDRO) reflecting changes and adjustments in the M17+ evaluation

2.3 Increasing the intensity of BUT's involvement in the international research area, optimising the conditions for this involvement

4A, 4D, 4E, 5D

- 2.3.1 Implement the meetings of the International Scientific Advisory Board of the BUT (ISAB BUT) reflecting the evaluation of research, artistic and other creative activities at the BUT in the international context
- 2.3.2 Analyse the readiness of the BUT for the evaluation of the BUT by the international panel within the framework of M17+: M3, M4 and M5 and implement the measures resulting from this analysis
- 2.3.3 Fundamentally improve methodological project support across the BUT in the area of international projects
- 2.3.4 Identify and mitigate internal barriers preventing greater involvement of quality foreign workers in research, artistic and other creative activities and teaching at the BUT
- 2.3.5 Implement the outputs of active marketing of research, artistic and other creative activities aimed at foreign target groups

2.4 Increasing the openness of the university and the transparency of research and artistic exploration

4A, 4B, D

- 2.4.1 Implement the outputs and measures to be defined in the updated document "Open Science Strategy at the Brno University of Technology for the period 2024–2025"

2.5 Increasing relevance and efficiency in support of project activities

3C, 4A, 4C

- 2.5.1 Finalise the implementation of the Directive on project implementation at the BUT (related internal regulations and methodologies, interconnection of processes, etc.)
- 2.5.2 Create a new concept and improve the provision of methodological support by the BUT Project Support Department in the field of international projects
- 2.5.3 Complete at least one phase of the implementation of the new BUT IS module for reporting and recording results
- 2.5.4 Support and develop the knowledge and competences of doctoral students in the preparation and implementation of projects (specific research, etc.), preferably as part of a "doctoral school"

2.6 Support and development of artistic research

1C, 4A, 4C, D

- 2.6.1 Classify and analyse the potential of the creative output of the BUT in the field of artistic research, architecture, fine arts, design and other creative activities
- 2.6.2 Ensure coordination and participation of the BUT in the working groups of the Register of Artistic Outputs (RUV) with the aim of promoting the setting of criteria for the evaluation of artistic outputs in the RUV database at the national level and support the optimisation of the classification of research, artistic and other creative activities in the FRASCATI Manual
- 2.6.3 Develop and link the database of the Register of Artistic Outputs with the BUT IS
- 2.6.4 Ensure the evaluation of the results of creative activities in conjunction with the evaluation of research, which will take place in 2024 in cooperation with ISAB BUT
- 2.6.5 Support entrepreneurial activities in spin-off and start-up companies in the fields of multimedia, gaming and other art-related creative activities and implement at least one spin off in this area
- 2.6.6 Validate the application of technology in art and design
- 2.6.7 Create suitable conditions and implement exhibition activities at BUT premises, including the BUT Rector's Office, in order to present artistic outputs within the university and to present the university towards the public

2.7 Development of research and artistic infrastructure and infrastructure for further creative activities

4B

- 2.7.1 Update the analysis of the needs and possibilities for the development of BUT infrastructure for the development of research, artistic and other creative activities
- 2.7.2 Prepare projects for the development of research and artistic infrastructure and infrastructure for further creative activities

2.8 Non-economic and economic knowledge transfer

3C, 4A, 4C

- 2.8.1 Initiate long-term cooperation in the field of knowledge transfer with selected companies in accordance with the basic objectives of the cooperation:
 - Enter into long-term contracts on specific, effective cooperation
 - Actively involve transfer coordinators, an essential part of which is to define the roles, competences, responsibilities and management of said transfer coordinators; create capacity and ensure funding for their activities
 - Creating perspective for BUT employees
 - Utilise the ability of the BUT to implement interdisciplinary projects
 - Manage projects while respecting commercial principles
- 2.8.2 Implement industrial doctorates in cooperation with companies from industry and the application sphere

2.9 Create conditions for active knowledge transfer

1A, 3C, 4A, D

- 2.9.1 Define and develop the necessary staff and financial capacity, competencies and knowledge to complete the organisational changes and enshrine them in legislation
- 2.9.2 Define strategic objectives in identified areas of interest of industrial partners at the level of BUT faculties and university institutes and within the framework of inter-faculty cooperation
- 2.9.3 Seek opportunities to involve the BUT Faculty of Business and Management in the commercialisation process
- 2.9.4 Define the commercial valuation of intellectual property and the results of research, artistic and other creative activities
- 2.9.5 Set up marketing support

2.10 Intellectual property administration

4A, 4C, D

- 2.10.1 Ensure the administration and management of intellectual property as a prerequisite for the development of knowledge transfer

2.11 Stabilisation of the BUT knowledge transfer system

1A, 4A, D

- 2.11.1 Establish functional cooperation between the BUT faculties and university institutes and the BUT Rector's Office
- 2.11.2 Keep a database of intellectual property and the results of research, artistic and other creative activities
- 2.11.3 Add people to the team of the BUT Department of Knowledge Transfer, set up their competences and responsibilities
- 2.11.4 Incorporate the knowledge transfer website into the BUT website structure, update its design and ensure its current relevance

3 Service to society

3.1 BUT Centre for Communication with the Public

1C, D

- 3.1.1 Build an attractive space for events and presentation of the BUT
- 3.1.2 Create and ensure active sales of promotional items and publications of the VUTIUM Publishing House, including a pick-up point of the BUT e-shop
- 3.1.3 Build facilities for BUT events (student associations, faculties, etc.)

3.2 Implementation of marketing strategy into practice in cooperation with BUT faculties and university institutes

1C, 1G, 5B, D

- 3.2.1 Complete and implement the BUT Marketing Strategy
- 3.2.2 Unify communication outputs in cooperation with BUT faculties and university institutes

3.3 Development of the BUT Design Manual

1C, 1G, 5B

- 3.3.1 Analyse the current manual of the BUT Unified Visual Style (BUT UVS) and update it based on practical experience and trends
- 3.3.2 Develop applications of the BUT UVS (invitations, brochures,...)
- 3.3.3 Develop application templates taking into account current technical parameters

3.4 Development of foreign marketing activities

1C, 1G, 5B

- 3.4.1 Revise the presentation of the offer of Bachelor's and Master's Degree study programmes in English on the websites of the BUT and its faculties and university institutes, test the functionality of the presentation on a target group, propose and implement appropriate adjustments based on the findings
- 3.4.2 Prepare and implement a university-wide online communication campaign; think through the communication in the "faculty/specific study programme" structure
- 3.4.3 Finalise the social media strategy (Facebook and Instagram) and launch its implementation

3.5 Developing communication platforms for graduates

1C, 6A, D

- 3.5.1 Test and launch the basic version of the portal with a view to launching the full version by the end of the year
- 3.5.2 Start gathering graduates in a segmented database (call for registration)
- 3.5.3 Optimise content based on analytical data of the portal and the needs of the BUT and its faculties and university institutes

3.6 Development of exhibition and collection activities in the field of art, design and architecture

1C, D

- 3.6.1 Develop the concept of the BUT Art Collection
- 3.6.2 Implement a competition for the creation of authentic fanfares for the BUT
- 3.6.3 Organise exhibitions in the interiors and exteriors of the BUT Rector's Office and BUT faculties and university institutes

3.7 Preparation of a methodology for the implementation of marketing activities towards the target group of applicants, setting up long-term cooperation with secondary schools

1C, D

- 3.7.1 Analyse activities towards applicants at BUT faculties and university institutes, including data
- 3.7.2 Prepare a communication strategy towards applicants
- 3.7.3 Design coordination of central, faculty and university institute activities, including linking of communication activities in terms of content and visual style
- 3.7.4 Revise and update ongoing surveys and inquiries towards prospective applicants
- 3.7.5 Conduct a sociological survey of interest in STEM studies including comparative analysis with EU27 countries to formulate objectives for marketing interventions and activities to promote interest in technical education
- 3.7.6 Analyse cooperation with secondary schools at the university level and at BUT faculties and university institutes
- 3.7.7 Discuss with the secondary schools, ask about their interest in and ideas for a mutually meaningful long-term cooperation
- 3.7.8 Develop a strategy for cooperation with secondary schools following the analysis and discussions

3.8 Development of the BUT Junior project and establishment of cooperation with organisations and institutions dedicated to the popularisation of scientific disciplines in line with the BUT's focus

1C, D

- 3.8.1 Innovate the BUT Junior concept on the basis of suggestions received from international cooperation within the EULiST network in the context of promoting technical education and prepare its extension to other target groups

3.9 Development of support and lifelong learning at the BUT as an integral part of the University's activities, in connection with the implementation of the social responsibility concept

1H, 2B, 2G, D

- 3.9.1 Develop the concept of lifelong learning at the BUT in relation to the introduction of postgraduate educational programmes of the "master" type and the application of Microcredentials in the practice of individual BUT faculties and university institutes
- 3.9.2 Educate the public on attractive BUT topics that are socially significant
- 3.9.3 Improve the quality of life of students, staff and the public through sport and develop their relationship to a healthy lifestyle and an active way of life in the light of modern trends, create conditions for the development of university sports for students and staff in their free time, also in order to compensate for a sedentary lifestyle
- 3.9.4 Expand cooperation with other entities in the field of sport and promote physical culture and sport at the BUT

3.10 Development of the University of the Third Age (U3A)

2G, D

- 3.10.1 Continue to develop U3A activities depending on the seniors' interest
- 3.10.2 Develop leisure sports and activities for the elderly; U3A Fit Seniors

4 Governance and institutional decision-making

- 4.1 Development of strategic partnerships with industry and the application sphere** 1C, 4A, 4E, 5B, D
- 4.1.1 Identify strategic partnerships for the BUT partnership programme
- 4.1.2 Create and support the BUT Industrial Board as an advisory body to support decision-making in the field of educational and creative activities in relation to the needs of industry and the application sphere
- 4.1.3 Develop strategic cooperation with the Brno Technology Park
- 4.1.4 Develop strategic cooperation with Brno hospitals in the areas relevant to the technological competence of the BUT
- 4.1.5 Improve cooperation with the South Moravian Region and industrial partners within the framework of the Regional Innovation Strategy of the South Moravian Region
- 4.2 Improving the competences of managers of BUT faculties and university institutes and the BUT Rector's Office in the field of strategic management** 5B
- 4.3 Implementation of activities aimed at promoting interest in technical education and developing cooperation with stakeholders (industrial enterprises, MEYS, primary and secondary schools and tertiary vocational schools, Ministry of Industry and Trade, NAB, South Moravian Region and others)** 1C, 5B, D
- 4.4 Linking the celebration of the 125th anniversary of the BUT with the promotion of the BUT, the promotion of technical education at national and international level including a link to the 20th anniversary of the Czech Republic's accession to the EU and the development of cooperation with target groups and stakeholders** 1C, 1G, D
- 4.5 Define up-to-date relevant indicators in the field of university evaluation in an international context, linked to a functional system of indicators for management to achieve the University's vision and mission** 5B
- 4.5.1 Analyse indicators from selected international university assessments
- 4.5.2 Analyse the suitability of selected indicators from international university assessments for management to achieve the University's vision and mission
- 4.6 Digitise activities related to the internationalisation of the internal environment** 5B, 6A, 6C
- 4.6.1 Implement Microsite for the Internationalisation Department
- 4.6.2 Create reports and overviews within the BUT IS for managerial decision making, including a comprehensive description of the semantics of the displayed data
- 4.6.3 Define the rules for issuing official documents at the BUT and changes within the BUT IS, especially with regard to the necessary two language versions

4.7 Developing the HR AWARD

- 4.7.1 Issue the Career Rules
- 4.7.2 Implement an appraisal system linked to the existing wage rules
- 4.7.3 Train members of the selection committees in connection with the issuance of the Selection Procedure Rules (SPR)
- 4.7.4 Train senior staff
- 4.7.5 Implement Revised Action Plan (HR Award)
- 4.7.6 Educate the academic and non-academic community in accordance with the HRS4R/HR AWARD, Gender Equality and Social Security Staff Training Plan 2023+

4.8 Development and renovation of infrastructure, revitalisation of the university campus

1E, 4B, 5A,
5B, 6A

- 4.8.1 Reconstruct and complete the Údolní 53 Campus, complete the project documentation for the construction. Prepare procurement documents for selecting the general supplier for Phase 1 including buildings U2, U3, U4, U5 and U15
- 4.8.2 Reconstruct and modernise the premises of the Faculty of Mechanical Engineering of the BUT, continue the phased reconstruction of part of the B1 building and part of the A5 building. Commissioning and handover of A2 KH2 objects to users.
- 4.8.3 Implement investment actions, purchase machinery and equipment in accordance with the approved budget plan
- 4.8.4 Renovate the envelope of buildings B02 and B05 of the Purkyňova dormitory
- 4.8.5 Acquire machinery and equipment for the development of education, science and research
- 4.8.6 Implement the approved plan of investments, major repairs and capital equipment in accordance with the conclusions of the BUT Construction Commission
- 4.8.7 Implement the construction of a new BUT datacentre in the form of a container solution
- 4.8.8 Within the framework of available subsidy titles, implement the renewal of critical infrastructure for the development of research, artistic and other creative activities

4.9 Centralised Facility Management (FM)

5A, 6A

- 4.9.1 Discuss, approve and implement the Strategic Facility Management concept
 - Set up processes in the FM
 - Effectively structure the FM organisation
 - Support the organisational culture of the FM
- 4.9.2 Collect data and analyse FM activities and tools from all BUT faculties and university institutes to evaluate the optimal setup of FM services, prepare documents for the decision of the BUT Management on adequate and effective forms of ensuring the FM (in-house, outsourcing of services, integrated provision)
- 4.9.3 Set up a system of quality control of FM services (PDCA cycle) between the BUT Rector's Office and BUT faculties and university institutes

4.10 Supporting the development of a sustainable university in the area of University Operations

1C, 5B

- 4.10.1 Develop a Sustainability Strategy and an Action Plan for selected areas of the Sustainable Development Goals (SDGs) of the EU and UN, in the sense of linking to the association of international universities European Universities Linking Society and Technology (EULIST) and the outputs of the CRP project UNILEAD II, i.e. Sustainability Framework Plan, Energy Management, Digitisation of Buildings and Energy and Water Resources, Green Construction and Renovation, Sustainable Mobility, Carbon Footprint. Establish an organisational background for measuring ESG for the new requirements in the area of social responsibility and environmental sustainability and create a plan for further supporting activities and their implementation in the area of environmental protection, food, waste in connection with the circular economy with a link to marketing and communication and responsible purchasing
- 4.10.2 Learn and educate about the reporting needs connected to ESG

4.11 Tools for intelligent building and asset management

5A, 6A

- 4.11.1 Complete hardware upgrades of the Building Management System (BMS) and the Measurement and Regulation (M&R) system
- 4.11.2 Conclude contracts for the management of the main BMS and Digital Video Manager (DVM) servers
- 4.11.3 Set up and configure the ArcGis software of the BUT passport server
- 4.11.4 Select the relevant FM software implementation
- 4.11.5 Complete a comprehensive analysis of sustainable energy sources for BUT campuses
- 4.11.6 Analyse the possibilities of deploying and implementing metering of electricity consumption and quality within the premises of BUT faculties and university institutes
- 4.11.7 Carry out follow-up work on the integration of energy management into the university-wide building management system (BMS)

4.12 Increasing the efficiency of funding for research, artistic and other creative activities

5A

- 4.12.1 Analyse the budget rules, update the budgeting rules with an updated ratio of A and K indicators, incorporating the new methodology for the evaluation of science and research, or also the economic management rules

4.13 Revision of the budget methodology

5A

- 4.13.1 Revise the budget rules and adapt the text parts of the budget of the respective year

4.14 Compliance system

5B, 6C

- 4.14.1 Gradually implement control mechanisms for each type of operation and preventive measures to avoid fraudulent practices

4.15 Gradual unification of the study agenda (methodological procedures and BUT IS)

6A

- 4.15.1 The target state in the study agenda is to achieve minimum differences between BUT faculties and university institutes in methodological procedures and a unified, functional and user-friendly information system on the web interface

4.16 Building qualified information support

5A, 5B, 6A

- 4.16.1 Implement restructuring of the BUT IS databases
- 4.16.2 Complete the preparation of input data creation methodologies and their semantics
- 4.16.3 Continue development of management information system applications
- 4.16.4 Start the project to implement the integration platform
- 4.16.5 Create a catalogue of services and start implementing the new Service Desk tool

4.17 System transition of applications onto the web interface

5B, 6A

- 4.17.1 Redefine the single central BUT IS
- 4.17.2 Convert selected modules (user count and management priority criteria)

4.18 Restructuring the University's organisational structure in the BUT IS and computerisation of agendas

5B, 6A, 6C

- 4.18.1 Unify the image of the University's organisational structure in the BUT IS
- 4.18.2 Continue to ensure the electronic circulation of documents

4.19 Reimplementation of qualified EIS and PersIS

6A

- 4.19.1 Perform the SAP technology upgrade
- 4.19.2 Initiate analysis and optimisation of economic and HR processes

4.20 Ensuring data management at the BUT

5A, 5B

- 4.20.1 Prepare an analysis of BUT data storage options
- 4.20.2 Prepare a methodology for data management at the BUT
- 4.20.3 Ensure data storage capacity at the BUT

4.21 Possibilities of using generative artificial intelligence tools

5B

- 4.21.1 Prepare a needs analysis of the possibility of using generative AI tools
- 4.21.2 Prepare a capacity analysis for central licensing of relevant generative AI tools
- 4.21.3 Acquire selected licenses of relevant generative AI tools

4.22 Development and maintenance of the BUT website

5B, 6A

- 4.22.1 Develop strategic areas on the University website (sustainability, social security, internationalisation and other topics as needed)
- 4.22.2 Evaluate the analysis of the functionality of the content, navigation and user-friendliness of the public part of the vut.cz website and implement the resulting recommendations where feasible and meaningful
- 4.22.3 Implement the strategy for translating the content of the website in relation to the different structure of the Czech and English versions; then ensure that the translations are up-to-date on an ongoing basis

4.23 BUT e-shop

5B, 6A

- 4.23.1 Implement the creation of the BUT e-shop, create an offer of goods and services
- 4.23.2 Set up a system of active sales, create a centralised BUT e-shop also for the use of BUT faculties and university institutes, offer sales in the University Centre

4.24 Streamlining the system of publishing and selling publications published by VUTIUM Publishing House

1G, 6C

- 4.24.1 Cancel the obligation to publish the serial publication Science Files – Ph.D. Edition in print, provide the service on a voluntary basis, update Directive No 61/2017 Science Files
- 4.24.2 Resume the periodic publication of the English yearbook “News at BUT” under a new thematic concept
- 4.24.3 Finalise the draft and approve the new directive Principles of Editorial Activities at the BUT in cooperation with the Legal and Economic Department of the BUT.
- 4.24.4 Prepare and implement the project of the BUT e-shop for the sale of printed publications in cooperation with CIS BUT
- 4.24.5 Renew the membership of VUTIUM Publishing House in the Association of European University Presses (AEUP)
- 4.24.6 Provide counselling and advice to BUT faculties and university institutes in the field of editorial activities (preparation of print specifications, requests for printing services, mediation of language proofreading, calculation of production costs, etc.)



Annex 1: BUT Investment Plan for 2024

Annex 1: Outline of the University's investment plan for 2024 – construction investment*

Number	Unit	Name of action – Construction investments for 2024	Concise description of the action	A						B			
				total	centralised resources		Action costs (in CZK thousands)		Action preparation and implementation deadlines	Description of the current state of the action solution	Plan of works for 2024	Costs assumption for 2024	
					FRIM**	invP	F/C	other resources					
													FRIM F/C
				sum									
1	BUT	Reconstruction and completion of the Údolní 53 Campus	This is a reconstruction and completion of the existing campus for the needs of the Faculty of Architecture and the Faculty of Fine Arts.	90,981.00	14,140.00	3,500.00	0.00	70,280.00	Preparation 2021–2024 Implementation 2025–2026	Detail design prepared, Negotiations with the authorities	Work on the BPD and detail design	31,820.00	
2	BUT	Reconstruction and modernisation of the FME	This is a reconstruction and modernisation of buildings A2, A3, A4, A5, A6, B1, B2, B2, KH2 and KH3 and cladding of buildings C1, C2 and C3 in the existing premises of FME built in the 1980s, because most buildings are technically and morally obsolete.	8,130.00				46,071.00	Preparation 2020–2022 Implementation 2021–2025	Completed reconstruction A3 KH3, Completed reconstruction A6, Completed reconstruction B2, Completed reconstruction implementation A2 KH2, Grant application for reconstruction A5,	Implementation of A5 reconstruction	54,201.00	
3	BUT	Reconstruction and modernisation of the FME	This is a reconstruction and modernisation of buildings A2, A3, A4, A5, A6, B1, B2, B2, KH2 and KH3 and cladding of buildings C1, C2 and C3 in the existing premises of FME built in the 1980s, because most buildings are technically and morally obsolete.	3,631.00				24,209.00	Preparation 2020–2022 Implementation 2021–2025	Completed reconstruction A3 KH3, Completed reconstruction A6, Completed reconstruction B2, Completed reconstruction implementation A2 KH2, Grant application for reconstruction B1,	Implementation of B1 reconstruction	27,840.00	
4	FME	Reconstruction of the triplex lift of the A1 high-rise building	Complete reconstruction of 3 elevators of high-rise building A1 with a total of 3x22 stations.	13,500.00					Preparation 2022–2023 Implementation 2023–2026	Preparation of the PD and the SP	Completion of the SP, Implementation	13,500.00	

Number	Unit	Name of action – Construction investments for 2024	Concise description of the action	A						B			
				total	centralised resources		Action costs (in CZK thousands)		Action preparation and implementation deadlines	Description of the current state of the action solution	Plan of works for 2024	Costs assumption for 2024	
					FRIM**	invP	FRIM F/C	other resources					
sum	FRIM F/C	NPD	Programme										
5	FEEC	Completion of the Laboratories for the Department of Electrical Power Engineering to accommodate instrumentation.	Completion and reconstruction of the existing premises of the Department of Electrical Power Engineering to accommodate instrumentation.	13,900.00	10,900.00		3,000.00	0.00	133220	Preparation 2022–2023 Implementation 2023–2024	Action implementation	Completion of implementation	13,900.00
6	BUT	Other investment activities	Other small investments approved at the meeting of the BUT Construction Commission and forwarded to the AS for discussion.	37,640.00	23,000.00	14,140.00	500.00			Implementation 01–12/2023			37,640.00

Number	Unit	Name of action – Construction investments transferred from 2023	Concise description of the action	A						B			
				total	centralised resources		Costs of the action		Action preparation and implementation deadlines	Description of the current state of the action solution	Plan of works for 2024	Costs assumption for 2023	
					FRIM	invP	F/C	other resources					
sum	FRIM F/C	NPD	Programme										
1	BUT	Upgrade of BMS BUT	Upgrade of HW and SW Building Management system of the whole University. The total cost is approx. CZK 25–33 million. Phases 1 and 2 in 2023 (2/3 of the cost), Phase 3 in 2024 (1/3 of the cost).	34,000.00	19,000.00	15,000.00	0.00	0.00		Preparation 2022, Implementation 2023–2024	Phase 1 completed, Phase 2 under construction	Implementation of Phase 3	9,000.00
2	BUT	Other investment activities – transferred from 2023	Other “small” investments approved in the previous period.	25,000.00	10,000.00	15,000.00				Implementation 01–12/2024			25,000.00

* The action plan was approved and recommended for further approval at the meeting of the Building Commission on 4 October 2023

** Investment Assets Reproduction Fund

Annex 1: Outline of the University's investment plan for 2024 – repairs *

Number	Unit	Name of action – Non-investments (repairs) for the year 2024	Concise description of the action	A			B		
				Action costs (in CZK thousands)	Description of the current state of the action solution	Plan of works for 2024	Costs assumption for 2024		
				total	centralised resources				
1	BUT	Other activities – non-investments (repairs)	Other big repairs approved at the meeting of the BUT Construction Commission and forwarded to the AS for discussion.	13,340.00	13,340.00	Implementation 01–12/2024			13,340.00

* The action plan was approved and recommended for further approval at the meeting of the Building Commission on 4 October 2023

Annex 1: Outline of the University's investment plan for 2024 – KaM **

Number	Unit	Name of action – Construction investments of KaM for 2024	Concise description of the action	A					B			
				Action costs (in CZK thousands)	Action preparation and implementation deadlines	Description of the current state of the action solution	Plan of works for 2024	Costs assumption for 2024				
				total	resources	other resources						
				sum	FRIM KaM	centre	NPO	Programme 133220				
				38,002.50	15,201.00	0.00	0.00	22,801.50				
1	KaM	Insulation of the cladding and roof of buildings B02 and B05 of the Halls of Residence at Purkyňova 93 – Phase 1 (building B05)	Reconstruction of ETICS and the roofs of two student halls of residence. Total cost approx. CZK 76 million Phase 1 in 2024	38,002.50	15,201.00			22,801.50	Implementation 2024–2025	detail design processed, IP submitted, action registered	GS selection, implementation of Phase 1 (B05)	38,002.50

** The KaM action plan was not discussed for 2024, because the implementation of any action depends on the development of the coronavirus pandemic and the availability of funds affected by a revenue shortfall in 2019, 2020 and 2021

Annex 1: Outline of the University's investment plan for 2024 – BUT Investment Plan for 2024 – machinery and instrumentation

Component Item No	Name of equipment / item designation	Action costs (in CZK thousands)										Note
		sum	inv. contribution / FRIM from inv. contribution	pro-gramme 133220	operational pro-grammes	earmarked subsidies outside R&D	earmarked domestic R&D subsidies	earmarked foreign R&D subsidies	own resources – FRIM	other		
Investment plan – machinery and instrumentation of BUT 2024 TOTAL		363,250.23	12,408.87	0.00	319,366.38	0.00	7,571.24	0.00	0.00	22,636.13	1,267.61	
BUT Rector's Office total		2,320.00	2,320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	Multifunction Printer_Office Q	120.00	120.00									
2	1pc of powerful switch	700.00	700.00									
3	Four new powerful switches for the Rector's Office backbone network	800.00	800.00									
4	Small tractor for operational needs	700.00	700.00									
BUT sites in total		960.00	960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	Tyre changer	160.00	160.00									
2	Utility pick-up truck for transporting mail	800.00	800.00									
FFA BUT total		6,806.80	0.00	0.00	6,466.46	0.00	0.00	0.00	0.00	340.34	0.00	
1	Post-production workstation for HIRes image and sound processing	629.32			597.86					31.47		
2	Electric stack cutter	212.84			202.20					10.64		
3	EF/PL mount film zoom lens set	257.55			244.67					12.88		
4	EF mount low aperture film lens set	279.90			265.91					14.00		
5	Professional EF film zoom lens	293.69			279.01					14.68		
6	Professional full frame film camera for 6K recording with accessories	189.82			180.33					9.49		
7	Professional full frame camera for recording at least 4K video	237.08			225.23					11.85		

Component Item No	Name of equipment / item designation	Action costs (in CZK thousands)										Note	
		sum	inv. contribution / FRIM from inv. contribution	programme 133220	operational programmes	earmarked subsidies outside R&D	earmarked domestic R&D subsidies	earmarked foreign R&D subsidies	own resources – FRIM	other			
8	Professional stereo microphone set / condenser microphones	172.40			163.78						8.62		
9	Large format scanner (A0+)	1,929.95			1,833.45						96.50		
10	Professional embroidery machine	269.90			256.41						13.50		
11	Professional MoCap system	2,334.34			2,217.63						116.72		
CESA BUT total		5,240.00	0.00	0.00	4,978.00	0.00	0.00	0.00	0.00	0.00	262.00	0.00	
1	BH FITNESS RUNMILL	240.00			228.00						12.00		
2	Force walkway for the laboratory	3,000.00			2,850.00						150.00		
3	Force plate	1,500.00			1,425.00						75.00		
4	SW for collection and evaluation of kinetic indicators of movement	500.00			475.00						25.00		
FEEC BUT total		42,250.00	0.00	0.00	35,200.00	0.00	0.00	0.00	0.00	0.00	7,050.00	0.00	
1	Modernisation of laboratories of heavy current electrical engineering	7,950.00			7,200.00						750.00		Project Ph.D. Infra, 95% subsidy, 5% co-financing
2	Modernisation of faculty computer equipment	1,000.00			750.00						250.00		Project Ph.D. Infra, 95% subsidy, 5% co-financing
3	Innovation of weak current electrical engineering laboratories	29,500.00			24,450.00						5,050.00		Project Ph.D. Infra, 95% subsidy, 5% co-financing
4	Modernisation of biomedical equipment	3,800.00			2800						1,000.00		Project Ph.D. Infra, 95% subsidy, 5% co-financing
FME BUT total		60,907.33	3,673.08	0.00	47,433.88	0.00	6,036.24	0.00	0.00	0.00	2,496.52	1,267.61	
1	High-speed multiphase flow visualisation workstation	1,992.51			1,892.88						99.63		Project Ph.D. Infra, 95% subsidy, 5% co-financing
2	Cluster – upgrade	3,169.49	110.80		2,905.76						152.93		Project Ph.D. Infra, 95% subsidy, 5% co-financing
3	Micro scales (10–6g)	385.12	0.00		365.87						19.26		Project Ph.D. Infra, 95% subsidy, 5% co-financing

Component Item No	Name of equipment / item designation	Action costs (in CZK thousands)								Note	
		sum	inv. contribution / FRIM from inv. contribution	pro-gramme 133220	operational pro-grammes	earmarked subsidies outside R&D	earmarked domestic R&D subsidies	earmarked foreign R&D subsidies	own resources – FRIM		other
4	3D printer for high temperature plastics	332.64	2.92		313.23					16.49	Project Ph.D. Infra, 95% subsidy, 5% co-financing
5	ComputerVision	548.88	58.88		465.50					24.50	Project Ph.D. Infra, 95% subsidy, 5% co-financing
6	Thermo-vacuum chamber for testing space technology	1,369.72	0.00		1,301.23					68.49	Project Ph.D. Infra, 95% subsidy, 5% co-financing
7	RobotCoArm	774.40	104.40		636.50					33.50	Project Ph.D. Infra, 95% subsidy, 5% co-financing
8	Crystallisation evaporator	1,403.60	16.37		1,317.87					69.36	Project Ph.D. Infra, 95% subsidy, 5% co-financing
9	Upgrade of particle classifier and counter assembly	2,262.53	556.16		1,621.05					85.32	Project Ph.D. Infra, 95% subsidy, 5% co-financing
10	Electrostatic submicron particle sorter	1,100.00			1,045.00					55.00	Project Ph.D. Infra, 95% subsidy, 5% co-financing
11	AI-enabled optical measurements for dynamic applications	1,754.50			1,666.78					87.73	Project Ph.D. Infra, 95% subsidy, 5% co-financing
12	Computational station for modelling of fluid and bulk flow	478.44			454.51					23.92	Project Ph.D. Infra, 95% subsidy, 5% co-financing
13	Smartboard interactive whiteboard	80.96			76.91					4.05	Project Ph.D. Infra, 95% subsidy, 5% co-financing
14	Paint booth	360.58			342.55					18.03	Project Ph.D. Infra, 95% subsidy, 5% co-financing
15	VibroDiag	700.59	52.66		615.53					32.40	Project Ph.D. Infra, 95% subsidy, 5% co-financing
16	RobotDog	492.07	0.00		467.47					24.60	Project Ph.D. Infra, 95% subsidy, 5% co-financing
17	Tribometer TRB3 including accessories	1,896.07	0.00		1,801.27					94.80	Project Ph.D. Infra, 95% subsidy, 5% co-financing
18	Turbomolecular pump	538.09	68.09		446.50					23.50	Project Ph.D. Infra, 95% subsidy, 5% co-financing

Component Item No	Name of equipment / item designation	Action costs (in CZK thousands)									Note	
		sum	inv. contribution / FRIM from inv. contribution	pro-gramme 133220	operational pro-grammes	earmarked subsidies outside R&D	earmarked domestic R&D subsidies	earmarked foreign R&D subsidies	own resources – FRIM	other		
19	Equipment for dynamic force tests of machine components	1,376.98	302.75		1,020.51					53.71		Project Ph.D. Infra, 95% subsidy, 5% co-financing
20	Electro-dynamic testing machine	4,900.04	2,400.04		2,375.00					125.00		Project Ph.D. Infra, 95% subsidy, 5% co-financing
21	Thermogravimetric analysis instrument (TGA)	1,240.45			1,178.43					62.02		Project Ph.D. Infra, 95% subsidy, 5% co-financing
22	Stand for thermal-hydraulic testing of heat exchangers	201.36			191.29					10.07		Project Ph.D. Infra, 95% subsidy, 5% co-financing
23	HW/SW system for HIL/RCP	3,386.26			3,216.94					169.31		Project Ph.D. Infra, 95% subsidy, 5% co-financing
24	Battery testing equipment	209.56			199.08					10.48		Project Ph.D. Infra, 95% subsidy, 5% co-financing
25	Vibrator with control system	3,182.35			3,023.23					159.12		MEBioSys project, 95% subsidy, 5% co-financing
26	2D/3D Laser sensor	634.17			602.46					31.71		MEBioSys project, 95% subsidy, 5% co-financing
27	Dynamic testing machine	1,332.66			1,266.03					66.63		MEBioSys project, 95% subsidy, 5% co-financing
28	Digital 3D correlation system	1,789.36			1,699.89					89.47		MEBioSys project, 95% subsidy, 5% co-financing
29	Powerful computing workstation	852.40			809.78					42.62		MEBioSys project, 95% subsidy, 5% co-financing
30	Multifunctional handheld 3D scanner	248.04			235.64					12.40		MEBioSys project, 95% subsidy, 5% co-financing
31	Condensation particle counter	1,733.99			1,647.29					86.70		MEBioSys project, 95% subsidy, 5% co-financing
32	Transmitting optics for phase Doppler anemometry	2,857.50			2,714.63					142.88		MEBioSys project, 95% subsidy, 5% co-financing
33	Micro/nano tribometer	4,854.34			4,611.62					242.72		MEBioSys project, 95% subsidy, 5% co-financing
34	Climatic chamber for preservation and cultivation of samples	613.75			583.06					30.69		MEBioSys project, 95% subsidy, 5% co-financing
35	Planetary ball mill	398.70			378.76					19.93		MEBioSys project, 95% subsidy, 5% co-financing

Component Item No	Name of equipment / item designation	Action costs (in CZK thousands)								Note		
		sum	inv. contribution / FRIM from inv. contribution	pro-gramme 133220	operational pro-grammes	earmarked subsidies outside R&D	earmarked domestic R&D subsidies	earmarked foreign R&D subsidies	own resources – FRIM		other	
36	HAAKE Mars II rheometer	589.51			560.04					29.48		MEBioSys project, 95% subsidy, 5% co-financing
37	Scanning module	1,494.42			1,419.70					74.72		MEBioSys project, 95% subsidy, 5% co-financing
38	High frequency illumination laser	1,204.37			1,144.15					60.22		MEBioSys project, 95% subsidy, 5% co-financing
39	SW Digimat	230.60			219.07					11.53		MEBioSys project, 95% subsidy, 5% co-financing
40	SW for postprocessing of 3D models of structural designs	632.49			600.87					31.62		MEBioSys project, 95% subsidy, 5% co-financing
41	HW for lab virtualisation	2,831.40							2,340.00		491.40	NPO, financed by contribution, VAT financed outside the project
42	Computing server	750.20							620.00		130.20	NPO, financed by contribution, VAT financed outside the project
43	High-performance laptop with augmented reality and autonomous driving data processing	181.50							150.00		31.50	NPO, financed by contribution, VAT financed outside the project
44	NAS – Disk storage for cloud mirroring	145.20							120.00		25.20	NPO, financed by contribution, VAT financed outside the project
45	Computing station with AI cards for real-time incorporation of camera and lidar data	968.00							800.00		168.00	NPO, financed by contribution, VAT financed outside the project
46	Universal test equipment	1,897.28							1,568.00		329.28	NPO, financed by contribution, VAT financed outside the project
47	FSI CFD computing station assembly	530.27							438.24		92.03	NPO, financed by contribution, VAT financed outside the project

Component Item No	Name of equipment / item designation	Action costs (in CZK thousands)								Note	
		sum	inv. contribution / FRIM from inv. contribution	programme 133220	operational programmes	earmarked subsidies outside R&D	earmarked domestic R&D subsidies	earmarked foreign R&D subsidies	own resources – FRIM		other
FCE BUT total		20,880.00	0.00	0.00	17,779.25	0.00	1,535.00	0.00	1,565.75	0.00	
1	Test system for testing soils in unsaturated condition	486.00			461.70				24.30		Planned purchase within the Ph.D. infra for teaching
2	DSR – Dynamic Shear Rheometer	994.00			944.30				49.70		Planned purchase within the Ph.D. infra for teaching
3	Calipri C42 laser non-contact profilometer C42BD01	594.00			564.30				29.70		Planned purchase within the Ph.D. infra for teaching
4	Rails Module Calipri CMM3001	229.00			217.55				11.45		Planned purchase within the Ph.D. infra for teaching
5	Data logger	701.00			665.95				35.05		Planned purchase within the Ph.D. infra for teaching
6	Proceq GPR Live	520.00			494.00				26.00		Planned purchase within the Ph.D. infra for teaching
7	Proceq Profometer PM8000 PRO	402.00			381.90				20.10		Planned purchase within the Ph.D. infra for teaching
8	Measuring technology – TR instruments	182.00			172.90				9.10		Planned purchase within the Ph.D. infra for teaching
9	Measuring technology – HBM	574.00			545.30				28.70		Planned purchase within the Ph.D. infra for teaching
10	Universal packed bed laboratory reactor assembly with a volume of 15–20 litres	1,053.00			1,000.35				52.65		Planned purchase within the Ph.D. infra for teaching
11	Briquetting press with a minimum output of 22kW for the preparation of pellets from various organic wastes with accessories	291.00			276.45				14.55		Planned purchase within the Ph.D. infra for teaching
12	Industrial bulk mixer with a volume of approx. 240 l, min. power 4 kW	111.00			105.45				5.55		Planned purchase within the Ph.D. infra for teaching
13	Linear track with two robotic arms for 3D printing	3,778.00			3,589.10				188.90		Planned purchase within the Ph.D. infra for teaching
14	X-Sight Full 3D optical measuring device	1,660.00			1,577.00				83.00		Planned purchase within the Ph.D. infra for teaching
15	Delta WASP 40100 Clay 3D printer	221.00			209.95				11.05		Planned purchase within the Ph.D. infra for teaching

Component Item No	Name of equipment / item designation	Action costs (in CZK thousands)								Note			
		sum	inv. contribution / FRIM from inv. contribution	programme 133220	operational programmes	earmarked subsidies outside R&D	earmarked domestic R&D subsidies	earmarked foreign R&D subsidies	own resources – FRIM		other		
16	Mixer	94.00			89.30						4.70		Planned purchase within the Ph.D. infra for teaching
17	Unitree Quadruped – quadruped robot with robotic arm and 3D lidar scanner	1,565.00			1,486.75						78.25		Planned purchase within the Ph.D. infra for teaching
18	iGASair 8 air pollution analyser	831.00			789.45						41.55		Planned purchase within the Ph.D. infra for teaching
19	Dustmate portable dust parts monitor	294.00			279.30						14.70		Planned purchase within the Ph.D. infra for teaching
20	Ciriellis Mini CORI-FLOW M15 mass flow meter with a flow range of 0.06 to 5 g/s	143.00			135.85						7.15		Planned purchase within the Ph.D. infra for teaching
21	5pcs of tri-axial sensors for low frequency vibration measurement including measuring base on tripod	396.00			376.20						19.80		Planned purchase within the Ph.D. infra for teaching
22	Acoustic system Brüel&Kjaer – Echo Speech Source	269.00			255.55						13.45		Planned purchase within the Ph.D. infra for teaching
23	Calibrator for vibration and speed sensors with adapter for calibration of non-contact sensors, 1 pc	172.00			163.40						8.60		Planned purchase within the Ph.D. infra for teaching
24	Digital microscope including accessories	2,712.00			2,576.40						135.60		Planned purchase within the Ph.D. infra for teaching

Component Item No	Name of equipment / item designation	Action costs (in CZK thousands)								Note		
		sum	inv. contribution / FRIM from inv. contribution	programme 133220	operational programmes	earmarked subsidies outside R&D	earmarked domestic R&D subsidies	earmarked foreign R&D subsidies	own resources – FRIM		other	
25	3D printer Ultimaker S7 + accessories/ FYZ	300.00			285.00					15.00		For our purposes, we would choose Ultimaker, which has its own sealed box so that the printed elements are thermally controlled and do not fail due to thermal shrinkage. The Ultimaker S7 https://cz.rs-online.com/web/p/3d-tiskarny/2580358?gb=b version seems ideal, which now comes at CZK 217,770.96 with VAT. A suitable combination of the S7 printer with the Einstar https://cz.rs-online.com/web/p/3d-skener/2618086?gb=b laser scanner, which costs CZK 31,327.48 incl. VAT, would allow us to produce 3D printed elements much easier, which have to engage other already existing elements that have, for example, complex geometry. In reviews, Ultimaker printers are among the top printers with a price under CZK 0.5 million.
26	CMM3003/C42 Switch – Module Calipri/ZEL	230.00								230.00		
27	Cilliis mass flow meter/BSE	143.00			135.85					7.15		
28	Universal packed bed laboratory reactor assembly with a volume of 15–20 litres / AdMaS – WS Economy and Environment	1,053.00								1,053.00		
29	Peristaltic pump for pumping liquids of laboratory units with flow control 0- min. 500, max. 1000 ml/min. / AdMaS – WS Economy and Environment	80.00								80.00		

Component Item No	Name of equipment / item designation	Action costs (in CZK thousands)									Note		
		sum	inv. contribution / FRIM from inv. contribution	pro-gramme 133220	operational pro-grammes	earmarked subsidies outside R&D	earmarked domestic R&D subsidies	earmarked foreign R&D subsidies	own resources – FRIM	other			
30	Briquetting press with a minimum output of 22kW for the preparation of pellets from various organic wastes with accessories / AdMaS – WS Economy and Environment	291.00					291.00						
31	Industrial bulk mixer with a volume of approx. 240l, min. power 4 kW / AdMaS– WS Economy and Environment	111.00					111.00						
32	Semi-operational filtration model/ Institute of Municipal Water Management	400.00									400.00		Teaching, dissertation, research
CEITEC BUT total		199,138.10	5,000.00	0.00	184,431.20	0.00	0.00	0.00	0.00	9,706.91	0.00	0.00	
1	100 kV electron lithograph	62,475.00			59,351.25					3,123.75			
2	Electron microscope with xenon focused ion beam	55,890.00			53,095.50					2,794.50			
3	X-ray tomography system with spacious cabinet for in-situ experiments	40,425.00			38,403.75					2,021.25			Subject to approval of the OP JAK project for upgrading large infrastructures
4	Beam aberration corrector for scanning transmission electron microscopy	18,000.00			17,100.00					900.00			
5	Laboratory equipment	5,000.00	5,000.00		0.00					0.00			
6	Transmission electron microscope (TEM)	6,200.00			5,890.00					310.00			OP JAK – Ph.D. Infra.
7	SEM – AFM	10,330.00			9,813.50					516.50			OP JAK – Ph.D. Infra.
8	TGA – DSC	818.10			777.20					40.91			

Component Item No	Name of equipment / item designation	Action costs (in CZK thousands)								Note		
		sum	inv. contribution / FRIM from inv. contribution	pro-gramme 133220	operational pro-grammes	earmarked subsidies outside R&D	earmarked domestic R&D subsidies	earmarked foreign R&D subsidies	own resources – FRIM		other	
FCH BUT total		24,748.00	455.79	0.00	23,077.60	0.00	0.00	0.00	0.00	1,214.61	0.00	
1	Flow cytometer with sorter	5,499.45			5,224.48					274.97		
2	Tensile testing machine	3,373.06			3,204.41					168.65		
3	Infrared microscope	7,274.16			6,910.45					363.71		
4	Time-resolved spectrofluorometer	5,576.35			5,297.53					278.82		
5	UltraWave3 microwave decomposition system including accessories	3,024.98	455.79		2,440.73					128.46		

Expansion and upgrade of instrumentation for BPD students at FCH within the framework of the project OP JAK – Ph.D. Infra.

Annex 2:

Allocation of funds for the years 2022–2025 for individual BUT priority objectives from the Programme to support strategic management of public higher education institutions for the years 2022–2025

The maximum amount of the annual contribution is CZK 84,790,450		Allocation of funds	Allocation according to MEYS
1.	Develop competencies directly relevant to life and practice in the 21st century	18.3%	
1.A	Support the development of employees' competencies for teaching and creating study programmes		
1.B	Develop methods for quality assurance in education and for validation of learning outcomes		
1.C	Strengthen the link between studies and practice and training for future employment		
1.D	Further develop the professional profile of studies at BUT and strengthen its prestige		
1.E	Support the building of infrastructure for interactive education methods of student integration		
1.F	Evaluate the experience with the new accreditation model and, based on previous experience, propose its partial modifications		
1.G	Strengthen the international dimension of higher education		
2.	Improve the availability and relevance of flexible forms of education	17.0%	in total 1 + 2 min. 35%
2.A	Increase the use of distance learning methods in full-time study programmes		
2.B	Strengthen the motivation to develop the offer and innovate methods of flexible forms of education, including online education		
2.C	Ensure the quality of flexible forms of education, taking into account their specificity		
2.D	Enable better reconciliation of studies with family and work life and create conditions for successful full-time and part-time studies		
2.E	Improve the recognition of prior learning outcomes in further studies		
2.G	Promote the offer of lifelong learning through career counselling provided to students and the general public, as well as in cooperation with the Labour Office of the Czech Republic		
3.	Improve the efficiency and quality of doctoral studies	3.0%	
3.A	Provide students in full-time doctoral degree programmes with sufficient financial conditions for quality study		
3.C	Improve the quality, openness and internationalisation of doctoral studies		
3.D	Improve the conditions for successful study, including support for reconciling study and family life, and strengthen the social integration of doctoral students		

5.	Build capacity for the strategic management of BUT	12.7%	
5.A	Create a financial instrument for the implementation of key strategic priorities		
5.B	Strengthen strategic management at BUT		
5.C	Support cooperation and exchange of experience between higher education institutions and the development of capacities for strategic management of BUT through meetings of management and professional staff and through roundtable discussions		
5.D	Strengthen strategic human resources management at BUT		
5.E	Open discussions on legislative changes		
6.	Reduce the administrative burden on the staff of but so that they can fully pursue their mission	10.0%	
6.A	Simplify the transmission of information to public administration and improve the availability and circulation of information through the ongoing digitisation of agendas		
6.C	Support the development of professional apparatus providing support services for academic staff and the operation of BUT		
INTERNATIONALISATION OF BUT, in accordance with the objectives stated in the Internationalisation Strategy (BUT Strategic Plan – objective 1.G)		25.7%	min. 15%
OTHER PRIORITY OBJECTIVES OF BUT STRATEGIC PLAN, which are in accordance with the areas listed in the section “other important topics in higher education” of the STRATEGIC PLAN		13.3%	max. 20%
SHARE OF INVESTMENT EXPENDITURE IN THE TOTAL ALLOCATION		10.0%	
SHARE OF INTERNAL COMPETITION IN THE TOTAL ALLOCATION		0.0%	max. 10%
TOTAL		100.0%	

Note:

The allocation of funds is given for the entire four-year programming period 2022–2025. Activities in the field of research, development and innovation, including capacity development and management in this area cannot be supported under the Programme.

