



Plan for the Implementation of the Strategic Plan for Educational and Scientific, Research, Development and Innovation, Artistic or Other Creative Activities of the University of Chemistry and Technology Prague for the year 2023

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Introduction

In accordance with Act No. 111/1998 Coll., the **University of Chemical Technology in Prague** (hereinafter referred to as "UCT Prague") submits, on Higher Education and on Amendments and Supplements to Other Acts (hereinafter referred to as the "Higher Education Act"), the strategic document **Plan for the Implementation of the Strategic Plan of Educational and Scientific and Research, Development and Innovation, Artistic or Other Creative Activities of UCT Prague for the Year 2023** (hereinafter referred to as the "IPSI 2023"), which is an annual refinement of the Strategic Plan of Educational and Scientific and Research, Development and Innovation, Artistic or Other Creative Activities of the University of Chemical Technology in Prague for the period from 2021 (hereinafter referred to as "SI 2021+").

The IPSI is based on the structure of the SI 2021+ and within the individual priority objectives it lists the measures and activities on which UCT Prague will focus in fulfilling its mission in a given year. In 2023, UCT Prague will continue to implement the measures of the SP 2021+ commenced in 2021 and 2022 and will start the gradual implementation of other planned measures listed in the SP 2021+, including measures and activities to meet the priority goals of UCT Prague in the field of internationalization.

For the (co-)financing of specific measures of the SI 2021+ from 2022 onwards, UCT Prague plans to use, among other things, funds from the state budget from the new Programme for the Support of Strategic Management of Higher Education Institutions for the years 2022 - 2025 (hereinafter referred to as "SMSP"). In order to secure the necessary sources of funding for the implementation of the development priorities of UCT Prague from 2022, the preparation of project applications for the calls for the Jan Amos Komenský Operational Programme (hereinafter referred to as "OP JAK") will be initiated. In 2023, the implementation of measures related to the adaptation of UCT Prague to new forms of learning and the changing needs of the labour market will continue within the framework of the support obtained from the National Renewal Plan for Higher Education for 2022 - 2023.

A mandatory annex to the document is the Plan of Investment Activities of UCT Prague for 2023, the outline of which is determined by the Ministry of Education, Youth and Sports.

Priority objective 1: Develop competencies directly relevant to life and practice in the 21st century

Operational objective: Support for the development of staff competencies for teaching and curriculum development (MEYS SI2021+: 1A)

Measure: Development of pedagogical and other competencies for teaching and curriculum development (O_01)

- Teaching will take place in **pedagogical skills development courses** for PhD students and early career academic staff to support initial and continuous teacher education, with a focus on the use of interactive and innovative teaching methods. The aim of these courses is to develop the didactic competencies and practical skills of the participants in the field of pedagogy, psychology and IT. The content and format of the courses will take into account the use of digital, online and hybrid forms of learning. Workshops and seminars will be organised for more experienced teachers on the development of didactic competences.
- To support the **increase of language competences** and the internationalisation of the university environment, **internal language courses for PhD students and staff** will be organised by the Institute of Languages. For PhD students, intensive specialised English language courses will be offered, focusing mainly on professional and academic language, including the presentation and communication skills necessary to join international research teams, as well as semester-long courses for learning other foreign languages. In order to develop the language competences of employees who use foreign languages in their work, English and other foreign languages will be taught in the form of semester-long courses *synergy with the operational objective "Support for language and intercultural training of students and staff of universities"*.

Funding sources: SMSP, Erasmus+, own resources.

Measure: Motivation of academic staff to develop pedagogical competencies (O_02)

On the basis of the analysis of the results of student surveys on the quality of teaching and performance of teachers, as well as on the basis of direct dialogue with students, and also on the basis of the collection and analysis of needs and requirements for the development of pedagogical competences directly from teachers at different stages of their career, seminars focused on the development of teachers' pedagogical competences will be prepared and implemented.

Sources of funding: own resources

Measure: Sharing good practice and innovation in educational activities (O_03)

The university-wide **Pedagogical Conference** will effectively help to share good practice with different forms of education, in particular with the use of digital learning elements, the inclusion of multimedia in teaching, project-based learning or workshops with experts in the given field. The presentation of selected outputs of internal pedagogical projects, sharing of teachers' own experiences and open discussion of the Pedagogical Conference participants will be a source of stimuli for improving the quality of teaching.

Funding sources: SMSP

Operational objective: Development of methods for quality assurance of education and verification of learning outcomes (MEYS SI2021+: 1B)

Measure: Optimization of the process of quality assurance of educational activities (O_04)

- On the basis of the evaluation of the outputs of the internal quality assessment of study programmes at all three levels of study and feedback from students / graduates / employers / representatives of professional associations, the **content and structure of study programmes** accredited at UCT Prague will be continuously **optimised** as necessary. In the development of new study programmes and modifications of existing ones, good practice from domestic and foreign universities of similar orientation as well as European standards will be taken into account. The synergistic effect of cooperation of universities on projects aimed at setting standards for the quality of teaching at Czech universities and on good practice in the functioning and further development of the Internal Evaluation Board will be used.

Sources of funding: own resources, CDP, SMSP, NRP.

Operational objective: Strengthening the link between studies and practice and preparation for future employment (MEYS SI2021+: 1C)

Measure: Incorporation of the development of general competencies required by practice into the curriculum (O_05)

Based on the results of a comparative analysis of the need for and quality of teaching transferable skills in the study programmes offered at UCT Prague, suitable courses and seminars will be prepared and implemented for students **to develop selected transferable skills within** the range of optional (complementary) courses outside the study plans. The courses will be on offer in LLE.

Funding sources: SMSP, own resources.

Measure: Promoting student entrepreneurship (O_06)

At the central level, student entrepreneurship (**student ideas**) will be promoted by offering training courses and consultations.

Sources of funding: own resources.

Measure: Development of targeted cooperation with practice in education, involvement of industry experts in teaching (O_07)

- In cooperation with experts from the application sphere, the **transfer of general knowledge and procedures from practice into teaching** will continue, in the form of lectures by industry experts, professional workshops, new trends and information technologies incorporated into teaching or project-based learning with the solution of real problems from practice. The aim will also be to maintain a high proportion of final student theses and projects directly linked to cooperation with companies or to ongoing research projects. The priority is to ensure the implementation of excursions and work experience in companies. Theoretical technical teaching will continue to be effectively combined with practical knowledge and skills in the specialised laboratory training. Interdisciplinarity in teaching will be promoted in existing accredited study programmes by offering courses from similar and related disciplines, with the aim of increasing the flexibility and employability of graduates in the labour market.

Sources of funding: own resources, NPO.

- **Intensive collaboration with secondary schools will continue to facilitate the transition between secondary and higher education**, by promoting the teaching of chemistry and other technical and natural science subjects.
 - Applicants to study at UCT Prague will be offered the on-line preparatory course "*Prepare yourself*" for profile subjects (mathematics, chemistry and English) to verify their sufficient level of knowledge from secondary school and their readiness for a smooth transition to further university studies. For students enrolled in the first year, preparatory courses in laboratory techniques will be offered to learn the basics of laboratory work.
 - The very popular *Summer and Autumn Schools* for secondary school teachers and students will continue to be organized, with the aim of sharing new trends and knowledge in different areas of chemistry, which in turn will serve to motivate secondary school teachers to enrich chemistry teaching and motivate gifted students to study chemistry.
 - The successful and proven methodological and professional support of secondary school students in the preparation of their professional work within the framework of secondary school vocational activities (SSVA) will continue. Information on the website will be regularly updated by UCT Prague.
 - UCT Prague will help (co-)organize the National Chemistry Olympiad and support the participation of the national team in the International Chemistry Olympiad.
 - Support will be provided to patron secondary schools in different regions of the Czech Republic. Practical laboratory instruction will be provided for secondary schools that do not have their own laboratory facilities.
 - Online interactive platforms addressing target groups of potential applicants for study at UCT Prague will be operated (*Chemistry content incubator*) using modern communication tools that correspond to the changing characteristics and attitudes of current applicants for study at the university.
 - To introduce the study of chemistry as an attractive and promising discipline to primary and secondary school pupils, proven interactive projects (*Hour of Modern Chemistry, Chemistry Club*) will be used.

Funding sources: SMSP, own resources, subsidies from the Ministry of Education.

- **The regional presence of UCT Prague in the Ústí nad Labem region and activities helping to retain qualified people in structurally disadvantaged regions** will be supported. The University Centre in Litvínov is expected to start teaching in the newly accredited professionally oriented Bachelor's degree programme "Industrial Chemistry" and the professionally oriented postgraduate degree programme "Chemical Technology Engineer". The study programmes have been prepared in cooperation with experts from ORLEN Unipetrol, ORLEN UniCRE and the Faculty of Mechanical Engineering of the Czech Technical University, as well as on the basis of consultations with other industrial partners in the Ústí nad Labem region. The study programmes are aimed at training specialists in industrial chemistry, chemical technology and engineering, materials and environmental technologies. Education will be complementary to the ongoing changes in the industrial and social profile of the Ústí nad Labem and Karlovy Vary regions from coal-based energy to new directions respecting the principles of decarbonisation technologies with the support of new forms of management and IT resources. The study programmes will include existing forms of teaching and effective modern teaching trends in technical, industry-oriented education - project-based learning, workshops in an industrial environment, modern distance learning and actively guided excursions and practice combined with efforts to involve students also in research and development projects implemented in the region concerned, including cross-border cooperation.

Funding sources: NRP, own resources.

Measure: Support for active involvement of learners in the teaching/life at the university (O_08)

Through the support of the internal **student grant competition for social projects**, the social integration and development of student competencies to increase their employability on the labour market will continue to be supported. The Student Grant Competition provides funding for cultural, social, educational or sporting activities that have a positive impact on relations within the academic community. Online student social projects will also be supported. Familiarisation, integration and sports courses will be organised at all levels of study. The tutoring programme for students will continue to be developed.

Sources of funding: own resources, SMSP.

Measure: Promoting a transparent link between curricula and the applicability of studies in practice (O_09)

The great involvement of experts from the application sphere in the evaluation committees of the Student Scientific Conference will continue to be supported.

Sources of funding: own resources, SSUR.

Measure: Innovation of study programmes by development trends in the needs of the labour market (O-10)

An analysis of suitable data sources will be initiated to set up a systemic cooperation with representatives of employers of our graduates, professional unions and associations, and the Alumni Club in order to obtain relevant information on the quality of accredited study programmes taught at UCT Prague in terms of the employability of graduates in the rapidly evolving labour market. Based on the outputs of the analysis, micro-credentials will be prepared and offered in various specialisation areas taught at UCT Prague.

Funding sources: SMSP, NRP.

Measure: Motivational support for students (O_12)

Students will be **motivated** by scholarships for outstanding academic results or representation of the school in extracurricular activities.

Funding sources: SMSP, own resources.

Measure: Promotion of LLE offer through career guidance (O_13)

An effective system of academic and psychological counselling, mental health care and career counselling services for students will be further developed. To improve support and increase the quality and accessibility of CCC services, a knowledge system will be created – a portal that can guide students through a self-analysis of their needs and link them to specific appropriate CCC services offered. A peer-to-peer mentoring system of student tutors will also be developed.

Sources of funding: own resources, CDP.

Operational objective: Support for building infrastructure for interactive methods of education and integration of learners (MEYS SI2021+: 1E)

Measure: Modernisation and renewal of infrastructure for education (O_15)

- In accordance with the strategic document Infrastructure renewal master plan of UCT Prague,

which represents a detailed plan for the construction renewal and development of all parts of the university, preparation of **reconstruction works in Building B (Studentská and Šolínova Streets) will be started, associated with the construction of laboratories** in the premises vacated from the long-term lease, as well as **reconstruction works in Buildings A (Technická 5) and B (Technická 3)** of the premises vacated by the relocation of some faculty and rectorate departments to the newly reconstructed office space in Building B (Žitná Street). The reconstruction work will be aimed at creating a modern and safe environment for the implementation of theoretical and practical teaching and research. Furthermore, the preparation of project documentation for the courtyard **extension to the courtyard of Building B** will continue. Preparation of project documentation for the **new building of UCT Prague on Vítězné náměstí** will be carried out. Continuous reconstruction and modernisation of buildings and technological equipment in the University campus in Jižní Město, Prague 4 will continue. In the **Běstvína** Student Learning Centre, the next stage will be implemented - the **reconstruction of the roofed outdoor teaching area** and the infirmary.

- The gradual **renewal and modernisation of the machinery and equipment of teaching facilities and laboratories** at all units of the university used for teaching in accredited study programmes at all levels of study will be continued in order to further strengthen the quality and competitiveness of the educational process at the UCT Prague.

For more detailed information, see the Plan of Investment Activities of UCT Prague for 2023, which is an integral annex to this document (Annex 1).

Sources of funding: own resources, programme funding of the MEYS.

Priority objective 2: Improve the availability and relevance of flexible forms of education

Operational objective: Increasing the use of distance learning methods in full-time study programmes (MEYS SI2021+: 2A)

Measure: Innovative solutions for increasing the efficiency and quality of distance education and assessment (O_17)

- Through the implementation of **innovative pedagogical projects** supported in the internal competition for the support of pedagogically oriented innovative projects of students and academic staff (PIGA), elements of blended learning will be implemented in teaching. Projects introducing innovations to existing curricula or courses will be supported, e.g. by incorporating forms of digital learning, workshops or project-based learning. Furthermore, projects for the creation and innovation of study guides and other study materials of a multimedia character for students and academic staff of UCT Prague and students and teachers of primary and secondary schools will be supported, while study guides should also support the teaching of combined forms of study. Pedagogical innovation projects aimed at creating and innovating LLE courses will also be supported.
- New supporting information and communication technologies for effective teaching of economic subjects and teleconferencing will be introduced.
- Training in the use of digital technologies will continue, improving IT support for teachers for teaching, including the provision of staff capacity of the relevant professional rectorate departments (CIS, Institute of Teaching and Humanities).

Funding sources: NRP, own sources, SMSP.

Measure: Motivational support for students (O_18)

Material support for students with specific needs and socially or economically disadvantaged students will be provided in the form of the loan of aids to facilitate the mastery of studies.

Sources of funding: own resources, OP JAK.

Operational objective: Development of the range and innovativeness of methods of flexible forms of education, including online education (MEYS SI2021+: 2B)

Measure: Developing flexible forms of education (O_19)

The reform and development of the LLE department at UCT Prague and the search for better external and internal promotion and popularization of LLE will continue. **The offer of LLE will be gradually expanded by new corporate, commercial and accredited pedagogical courses for secondary school teachers**, including courses offered in English, the organisation of summer schools and the production of popularisation and educational videos for U3A participants. LLE courses are uniformly registered and integrated into the Student Information System (SIS). In order to increase the informational value of evidence of the results achieved in lifelong education for trainees or their employers, standardised certificates are issued to graduates of courses.

Sources of funding: own resources, SMSP, NRP, MEYS grants.

Priority objective 3: Increase the efficiency and quality of doctoral studies

Operational objective: Strengthening the quality, openness and internationalisation of doctoral studies (MEYS SI2021+: 3C)

Measure: Strengthening external and international elements in the assessment of learning outcomes and scientific activities of PhD students (O_21)

Within the framework of the scientific internal grant competition at UCT Prague (VIGA), modifications of the rules verified during the implementation of the OP RDE project "Activities to support internal grants for doctoral study programmes at UCT Prague (IGRA@UCTP)" will be implemented. Increasing the quality of the internal grant scheme for students of doctoral study programmes will be ensured e.g. by strengthening the computerisation of the internal grant competition through the implementation of a new version of the IS, enabling the documentation of student projects in English. Based on experience from the implementation of the **internal grant competition IGRA@UCTP within the OP RDE project IGRA@UCTP**, educational blocks with recommended thematic training for the phase before submitting project applications and for the phase of project implementation will be compiled for the researchers of internal student grants and their mentors.

Sources of funding: EU funds (OP RDE), own resources.

Measure: Requirements for international mobility of DSP students (O_22)

A scholarship fund will be established at the school level to support the fulfilment of the requirement for international mobility of doctoral students in accordance with the DSP accreditations granted. *Synergy with the SI operational objective "Developing international mobility of students and workers".*

Funding sources: Erasmus+, own resources, SMSP.

Measure: Supporting and facilitating the transition of DSP graduates into subsequent careers(O_24)

- Within the scientific internal grant competition (VIGA) of UCT Prague , **scientific projects of DSP students** will be supported. The VIGA administration process will be fully computerised using a new version of the internal IS - the Project and Contract Register (PCR) module. Doctoral students will be able to continue to use **mentoring** from the services offered by the Counselling and Career Centre of UCT Prague to shape their future career path.
- Within the framework of LLE, **additional courses in Czech and English will be offered to DSP students to strengthen transferable competencies** and deepen their knowledge, especially in the areas of dissemination of results, application and protection of results of scientific and research activities and research and development management. Successful course graduates will receive a certificate.
- The **development of communication skills of PhD students** will be supported in order to acquire theoretical knowledge and practical skills in presenting their research work in a popularizing form intended for the general public through the production of media outputs to various communication channels of UCT Prague.

Funding sources: SMSP, own resources, SSUR, LCDRO

Operational objective: Improving conditions for successful studies, including support for balancing studies with family life, and strengthening the social integration of PhD students (MEYS SI2021+: 3D)

Measure: Definition of the status of PhD students (O_25)

The implementation of the recommendations from the MEP evaluation will be initiated and the EC's comments on the submitted HR Award documents concerning the definition of the status of PhD students will be addressed. On the basis of the discussion between the faculties and the university management within the newly established Working Group consisting of representatives of faculties, rectorate departments and institutes, including representatives of the Academic Senate of UCT Prague, the possibilities of changes and settings of doctoral studies at UCT Prague will be further developed. Motivation to complete doctoral studies in due time, modification of the evaluation of studies, pedagogical activity of DSP students and, last but not least, the possibility of establishing a so-called Doctoral School will be addressed; *synergy with O_23 of the operational objective "Strengthening the quality, openness and internationalization of doctoral studies" (PC3).*

Sources of funding: own resources, SMSP.

Measure: Balancing doctoral studies and work with family life in the early stages of an academic career (O_26)

The CCC's individualised support services for PhD students will be further supported and developed.

Sources of funding: own resources, CDP.

Measure: Space, social facilities, equipment and services for PhD students (O_27)

- **Information, education and support services** will be provided to PhD students through the service rectorate departments in relation to appropriate grant schemes. The functionality and quality of

the newly implemented module of the study IS, which will replace the internal e-Doktorand application, will be continuously improved to evaluate the results and outputs of PhD students.

- Doctoral students will be supported in **writing and publishing their dissertations** in a uniform format meeting the parameters recognised abroad. DSP students will be financially supported in commissioning the printing and binding of their dissertations. Formally speaking, this measure significantly strengthens the prestige of dissertations published at UCT Prague.
- In accordance with the strategic document **Master Plan for the renewal of the infrastructure of UCT Prague**, reconstruction works and modernization of buildings in the Dejvice Campus (laboratories in Building B - Studentská and Šolínova Streets, vacated premises of the Rectorate and Faculty support departments in Building A and B (Technická Street). Furthermore, the preparation of project documentation for the courtyard extension to the courtyard of Building B will continue. Preparation of project documentation for the new building of the UCT Prague on Vítězné náměstí will be carried out; *synergy with the operational objective "Support for building infrastructure for interactive methods of education and integration of learners"*.
- **The technical and instrumental equipment of teaching spaces and laboratories** at all units of the university used for teaching in accredited doctoral study programmes will be gradually **renewed and modernised** in order to further strengthen the quality and competitiveness of the educational process at UCT Prague; *synergy with the operational objective "Support for building infrastructure for interactive methods of education and integration of learners"*.

For more detailed information, see the Plan of Investment Activities of UCT Prague for 2023, which is an integral annex to this document (Annex 1).

Funding sources: SMSP, own resources, LCDRO, other grants, programme funding of the MEYS, OP JAK.

Priority objective 4: Strengthen strategic management and effective use of R&D capacity in universities

Operational objective: Completion of a comprehensive transformation of the environment and setting up of R&D&I processes at UCT Prague (MEYS SI2021+: 4A)

Measure: Implementation of MEP recommendations (O_28)

- **Systematic support of Open Science at UCT Prague** will be developed according to European standards as a necessary step leading to the promotion of high-quality research and the internationalization of the research and innovation environment. The implementation of Open Science principles will bring about a complete transformation and adjustment of internal processes that will affect education, the research environment and the innovation potential of research results. Within the measure the following is foreseen:
 - Analysis of the **readiness of UCT Prague to implement Open Science procedures** using the [RISE framework](#) - Research Infrastructure Self Evaluation Framework from the Data Curation Center.
 - Creation of a single point of **online support for Open Science on the website of the UCT Prague** in order to raise awareness of the principles and practices of Open Science.
 - Incorporate a **DocEnhance Data stewardship course** for scientific data management into PhD programmes (from the 1st year). Piloting in collaboration with Charles University, Faculty of Natural Sciences.

- Introduce and pilot a **course on scientific ethics and integrity** at UCT Prague in cooperation with Charles University in order to increase the competence of PhD students and other scientists.
- Involvement of **UCT Prague in the national ORCID consortium**. Integration of the member ORCID API into the OBD system, which will allow two-way transfer of information and entry into the user profile if the users give their consent.
- Long-term **provision of university-wide educational, methodological and support activities** (training, seminars/webinars) for early career researchers (especially PhD students) and other research and support staff.
- Preparation of **recommendations for Research Data Management and Open Access at UCT Prague** in accordance with European standards and in accordance with the requirements of providers in the Czech Republic. The recommendations will be followed up by the '**UCT Prague Strategy for Open Science Support**' once the national strategy for Open Science is in place.
- Support activities to **train in-house data stewards** to provide data management support at individual faculties.
- Analysis of the [European Recommendation for the Assessment of Science](#) - at the level of individuals - i.e. researchers (including PhD students) and research projects in the context of broader Open Science practices and other activities.
- In the area of technology transfer, a **Methodological Instruction for the Establishment of Spin-off Companies** and a **Guide to the Protection of Intellectual Property for Employees of the UCT Prague** will be prepared.
- The translation of internal HR documents into English will continue as part of the implementation of the action plan developed with the submitted HR Award application for 2022/2023. In the meantime, the preparatory phase of the individual actions in the Action Plan will take place and their implementation must start from the moment of obtaining the HR Award according to the Action Plan schedule. The internal IS module "Employee Profile" will be regularly updated with relevant data for the evaluation of R&D&I academic staff.

Funding sources: LCDRO, own resources, EU funds (OP JAK, Horizon 2020).

Operational objective: Promoting excellence and societal relevance in research (MEYS SI2021+: 4C)

Measure: Taking into account societal needs at national and global level in the research priorities of UCT Prague (O_30)

- Traditional **long-term cooperation with partners from industry**, but also from other sectors, will be supported to **address research topics with high societal relevance**, such as environmental protection, recycling, nuclear waste disposal, hydrogen technologies, energy storage, waste recycling (European Green Deal), health, protection of cultural heritage, etc., leading to higher added value for society. The cooperation should lead not only to high-quality applied research, but also to the education of top young scientists (an example is the cooperation with Lafarge Cement and ČEZ on testing a new environmentally friendly cement-metallurgical technology developed at the University of Applied Pharmaceutical Research, The Parc, which successfully links the research cooperation of the University of Science and Technology Prague, the Faculty of Science of the Charles University and the Institute of Chemical Engineering of the Academy of Sciences with Zentiva to accelerate the process of innovation in the field of research and development of pharmaceuticals, or the cooperation within the Unipetrol Research and Education Centre UniCRE dealing with the development of chemical technologies). As part of the

support for excellent research and development in priority areas of public interest in the health sector, the research team of UCT Prague joined a project to create a nationwide National Institute of Virology and Bacteriology funded by the National Recovery Plan. Excellent scientists and research teams from UCT Prague are applying for grant support for projects from the Top Research call of the OP JAK with the aim of creating cutting-edge and research results applicable in the future. We will continue to establish promising cooperation with small and medium-sized enterprises in Prague and other regions, making maximum use of the potential of the Kralupy Technopark and the know-how of the faculties.

- **Services in the field of intellectual property protection and technology transfer will be further developed** to ensure the protection of intellectual property of R&D&I results generated at UCT Prague and their commercialization. Partners in the application sphere will be systematically sought out and active support systems will be developed to increase the success of commercial exploitation of applied research results at UCT Prague.
- In the form of an **internal competition for junior grants** (JIGA), promising junior academic and scientific staff will be financially supported in the implementation of their own innovative research, independent publishing activities and establishing active foreign cooperation to increase their success in obtaining domestic and foreign grants.
- The creation of sufficient spatial capacity in accordance with the Master Plan for the Renewal of the Infrastructure of UCT Prague at all units of the University and the gradual **modernisation of instrumentation and technological equipment for science and research** will continue, with the aim of further strengthening competitiveness and excellence in the areas of basic and applied research carried out at UCT Prague. For the duration of the grants, the researchers of the excellent research grants are provided with the premises of equipped excellent laboratories including the necessary facilities.

For more detailed information, see the Plan of Investment Activities of UCT Prague for 2023, which is an integral annex to this document (Annex 1).

Sources of funding: own resources, EU funds (JTF, OP JAK, OP EIC), NRP, subsidies from other domestic and foreign providers, LCDRO, programme funding of the MEYS.

Operational objective: Development of international cooperation in the field of R&D&I (MEYS SI2021+: 4D)

Measure: Increase the proportion of academic and non-academic staff with foreign experience (O_32)

Initiation grants from the Dagmar Procházková Fund will support the scientific projects of academics with international experience who are expected to connect their future professional career with UCT Prague. Depending on the financial possibilities of the school, the FDP project budget will be increased and the number of FDP grants awarded will be increased.

Sources of funding: own resources, LCDRO.

Measure: Obtaining special-purpose R&D&I support from international sources (O_33)

Support for researchers applying for grants from international sources will continue in the form of providing information and consultation services and training activities, especially for the Horizon Europe Framework Programme - using the outputs of the Kompas project (Anlupa application). Support for researchers in the preparation of international R&D&I projects will be further provided within the Project Centre. To support the involvement of new applicants in consortium projects, an **incentive scheme will continue to be used to support applicants in joining international R&D&I programmes.**

Sources of funding: own resources, LCDRO, grants from other providers.

Operational objective: Popularization of natural sciences and results of creative activities of UCT Prague (MEYS SI2021+: other priority objectives II10)

Measure: Popularization of science with emphasis on chemistry (O_34)

The results of the creative activities of UCT Prague will be popularized regarding the general public, with an emphasis on the target group of potential applicants for study at UCT Prague, through active participation in projects and events popularizing science (Night of Scientists, Photo Competition; The World (is) Chemistry, ChemQuest, Youth Academy, ScienceFest, etc.). It will use not only proven face-to-face events, but also alternative online forms responding to the current social situation and changing communication habits of the current population. UCT Prague will support both staff and students in developing teaching and communication skills with a focus on communicating current knowledge of science and research to the general public in a popular form. The appearance of academic and scientific staff from UCT Prague in the media will be supported, and the results of their work will also be presented through various communication channels. It will support the prestige of Czech scientists, universities and science and research in general in the context of the Czech Presidency of the Council of the EU, as well as raise awareness of the activities and potential of public universities in the field of implementing the UN Sustainable Development Goals.

Funding sources: SMSP (*funding implemented within the framework of the so-called Other Priority Objectives of uni SI*), own resources, sponsor donations, CDP.

Priority objective 5: Capacity building for strategic management of higher education

Operational objective: Implementation of strategic priorities at UCT Prague (MEYS SI2021+: 5A)

Measure: Evaluation of the Implementation of the Strategic Plan of UCT Prague (O_35)

An evaluation of the implementation of the Strategic Plan for the year 2022 will be carried out on the basis of the evaluation of the fulfilment of the values of indicators set at the level of individual operational objectives. This evaluation will be annexed to the Internal Quality Assessment Report. An external entity will be selected to carry out an evaluation of the implementation of the Strategic Plan of UCT Prague for the period from 2021 to 2024 or 2025.

Sources of funding: own resources, SMSP.

Operational objective: Strengthening of strategic management at UCT Prague (MEYS SI2021+: 5B)

Measure: Developing internal capacity for strategic management (O_36)

- Relevant documents for international university rankings (QS, THE) will be prepared on an ongoing basis in order to maintain and strengthen the university's position in selected world rankings, both general (ranking among the world's top 500 universities) and sector-specific, focusing in particular on chemical, material and food sciences.

- The Strategy and Development Department will develop activities related to the extraction of data from internal information systems and public data sources for the purpose of reporting and preparation of underlying analyses for the management and decision-making of the University and its units.
- Rectorate and faculty managers and members of academic senates will be offered the opportunity to develop their management and decision-making competencies through specialised training courses focused on the specific needs of the academic environment.

Sources of funding: own resources, SMSP.

Measure: Implementation of the Responsible Purchasing Strategy at UCT Prague (O_37)

Work will continue on the preparation of the implementation of the responsible purchasing strategy at UCT Prague, which is associated with the setting of basic rules and internal processes in the organization to ensure the gradual implementation of public procurement in a socially responsible manner. UCT Prague will use the shared knowledge and experience from the cooperation of HEIs to continue the joint project for the use of good practice and setting voluntary standards for HEIs in different areas of Sustainable Development Goals (SDGs).

Sources of funding: own resources, CDP.

Measure: Development of internal mechanisms for the distribution of funds and remuneration of academic staff (O_38)

Data and other documents containing information will be prepared for a comprehensive analysis of the mechanisms of distribution of funds to the individual units of the university. The results of the analysis will then be used for possible adjustment of the system of division of payroll, operating and investment funds within the UCT Prague in response to external and economic conditions, taking into account strategic priorities.

Sources of funding: own resources, SMSP.

Measure: Support for self-governing academic bodies (O_39)

Continuous updating of the software support for the electronic form of elections to academic senates (faculty and school-wide) and voting in the bodies of UCT Prague and during the defence of qualification theses will be carried out according to the requirements of the academic community. Discussion will continue on the topic of the rules for remuneration of members and officers of Academic Senates so that they are ready for implementation for the forthcoming period.

An electronic information platform will be created for the needs of the Board of Trustees and other self-governing bodies, which will enable the sharing of documents, simplify agenda preparation and also facilitate communication between Trustees among themselves and between the Board of Trustees and the University management.

Sources of funding: own resources, SMSP.

Measure: Development of cooperation, coordination and common identity within UCT Prague (O_40)

- In order to support the development of cooperation, strengthen the common identity and coordinate the implementation of the planned process changes at the level of the institution and individual units of UCT Prague, opportunities will be created for **meetings of staff from different departments** across the university.
- The **current internal communication channels** will continue to be developed to effectively inform

the academic community, other employees and alumni about the University's operations, management intentions and activities to fulfil the intentions. As part of the internationalisation of the university environment, the **development of English versions of internal communication channels** will continue.

- The Alumni Club will continue to be supported.

Sources of funding: own resources, SMSP.

Operational objective: Promoting cooperation and exchange of experience between universities and capacity development for strategic management at national level (MEYS SI2021+: 5C)

Measure: Strengthening cooperation and sharing of good practice between HEIs (O_41)

The potential for collaboration and sharing of good practice among public universities will be exploited in addressing a number of thematic areas supported under the 2023 Centralised Development Programme projects, by engaging in both "small" projects and collaborative projects involving 18 or more HEIs. UCT Prague will continue to actively participate in the implementation of the strategy and policy of open science and open data at a national level.

Funding sources: CDP, own resources, Cesnet Development Fund.

Operational objective: Strengthening of strategic human resources management at UCT Prague (MEYS SI2021+: 5D)

Measure: Strengthening human resources capacities (O_42)

Psychological counselling services for staff will be further provided. Preparatory work for the implementation of the adaptation process for incoming staff will be initiated.

Sources of funding: own resources, SMSP.

Measure: Preventing academic "inbreeding" (O_43)

A broad **discussion** will continue in the academic community **about the introduction of the obligation to obtain at least minimum foreign professional experience** for those graduates of UCT Prague who wish to develop their professional career at UCT Prague and apply for employment. The selection procedures for selected positions of academic and research staff will be published in an appropriate manner on respected web portals, including foreign language ones, so as to reach as many potential internal and external candidates as possible, including from abroad.

Sources of funding: own resources.

Measure: Remuneration of academic staff in relation to results and quality of activities for the university (O_44)

The "Employee Profile" module will be further optimised on an ongoing basis. Output reports of aggregated data from the module will be produced for managers as a basis for staff appraisal and management. Within the framework of employee remuneration, the extraordinary **contribution** of specific **employees** to the work results and development of UCT Prague **in various areas of their professional life** will be **recognised** by the awarding of the Rector's Prize and the Julia Hamáčková Prize for the consideration of gender aspects in professional activities at UCT Prague. Students are

awarded the Julia Hamáčková Prize for incorporating gender and/or gender identification analysis into their studies.

Funding sources: PSR.

Measure: Implementation of HRS4R principles - obtaining and maintaining the HR Award (O_45)

A revised HR Award application was sent in September 2022 addressing the European Commission's comments on the 2021 submission in preparation for the HR Award, which is awarded by the European Commission to research institutions implementing HRS4R (The Human Resources Strategy for Researchers). In 2023, activities related to the implementation of the HR Award Action Plan will be carried out according to the proposed schedule. The action plan of UCT Prague contains 43 actions falling under agendas across several rectorate departments for the time period 2023-2026. Actions are focused on ethical and professional aspects of work in R&D&I, improvement of the working environment, improvement of the recruitment strategy and development of human resources in the form of staff training; *synergy with O_28 of the operational objective "Completion of a comprehensive transformation of the environment and setting up of R&D&I processes at UCT Prague" (PC4).*

Funding sources: SMSP, own resources.

Priority objective 6: Reduce the administrative burden on university staff so that they can focus on their vocation

Operational objective: Simplifying the transfer of information to public administration and improving the availability and circulation of information through the continued digitisation of agendas (MEYS SI2021+: 6A)

Measure: Development of information systems, digitisation of agendas (O_46)

In line with legislative requirements, existing internal information systems will be further developed to reduce the administrative burden and improve functionality and user-friendliness. Once the acceptance tests of the first stage are completed, the second stage of the implementation of the **new Identity Management System (IDM)**, which was acquired in 2021, will begin by setting up the technical framework for data exchange between the Personnel System (PIS) and the IDM. The **support of electronic processes in the Economic Information System (EIS) will be extended to** electronic approval of invoices and orders, generational renewal of the SPS module (File Service) and its integration with other information systems, in particular SIS and Tender Arena, and the computerisation of the business travel agenda, where activities will be continued in connection with the outputs from 2022. Within the **Personnel Information System (PIS)**, the development of the workflow application will continue, ensuring the electronic circulation of personnel documents, possible optimization of functionalities in relation to user requirements, and the offer of forms will be expanded. On the basis of the analysis prepared in 2022, a new application will be deployed for the completion and recording of statements of work. Further development of the **Grants and Projects (GaP)** system will continue, based on the requirements of system users and the technological possibilities of obtaining data from external sources. Within the **Financial Information System (FIS)**, modifications will be made to the administration module, particularly with regard to its modernisation and the requirements arising from the Cyber Security Act. Another module that will be upgraded is the Property module, which does not allow to fulfil some requirements resulting from

normal operation, especially with regard to the bulk handling of some changes, and will thus lead to an improvement and streamlining of the work of users using this module. In the framework of the development of the **Student Information System (SIS)**, attention will be further paid to the system's modifications / linking to other systems and registers, which will gradually ensure the full computerization of student files.

In cooperation with other public universities, selected tools and security policies in the area of information security management and cyber security will be implemented. Awareness-raising and educational courses in the field of cyber security will be organized for target groups at UCT Prague. Safety documentation will be created/updated to ensure all requirements arising from legislation are met.

Funding sources: CDP, own sources, SMSP, NRP.

Operational objective: Support for the development of professional apparatuses providing support services for academic staff and school operations (MEYS SI2021+: 6C)

Measure: Promoting capacity sharing in the framework of university cooperation to reduce administration (O_48)

UCT Prague will actively participate in the activities of the Association of Research Universities (ARU) and the Association of Technical Universities, of which it is a member. It will share examples of good practice aimed at reducing internal administration and bureaucracy and supporting the digitization and computerization of agendas related to the management of not only educational and scientific research activities, but also other supporting activities (economics, HR). Within the ARU, UCT Prague will be actively involved in individual thematic working groups focused on:

- The higher education and research environment (the responsibility of Charles University).
- Evaluation of research and research infrastructures (the responsibility of Masaryk University).
- Development programmes and knowledge and technology transfer (the responsibility of CTU Prague).
- Development and improvement of doctoral studies (the responsibility of UCT Prague).
- International cooperation (the responsibility of Palacký University Olomouc).

Sources of funding: own resources.

Internationalisation strategy

Priority objective I1: Developing global competencies of students and staff in higher education

Operational objective: Support for language and intercultural training of students and staff of higher education institutions (MEYS SI2021+: I1A)

Measure: Foreign Language as an Integral Part of Study and Work at UCT Prague (O_49)

- The **hosting of foreign experts** (especially from partner institutions) at UCT Prague will be financially and organizationally supported. Thanks to this activity, students and employees will have a unique opportunity to participate in classes led by renowned foreign experts without having to leave the campus of UCT Prague, i.e. there will be "internationalisation at home". This measure also benefits the development of existing and the creation of new contacts for future cooperation in various areas of teaching and scientific research.
- In order to **support the interest of students of Czech-language study programmes in taking courses taught in English**, rules will be implemented for the provision of a bonus on successful completion of English-taught courses in selection procedures for students' mobility abroad.
- The preparation of rules for the compulsory completion of part of the courses in English in selected Czech-language master's degree programmes will continue.

Funding sources: SMSP, own resources.

Measure: Development of intercultural competencies (O_50)

The intercultural competences of students and staff are expanded through the participation of students and staff in international mobility. As part of pre-departure preparation, students going on study stays are offered optional intercultural skills training.

Funding sources: Erasmus+.

Operational objective: Development of international mobility of students and staff (MEYS SI2021+: I1B)

Measure: Targeted offer of international mobility for students and staff (O_51)

- **Two-way mobility of students and staff** will be **encouraged** under Erasmus+ and other programmes. The aim of the mobility is to develop international experience and build contacts for the future involvement of students, academic and non-academic staff in international projects and partnerships; designing and adapting study programmes, teaching in a foreign language or providing support for the institution's activities at different levels and strengthening internationalisation. Both short and long-term stays will be supported. A quality information service will be provided to students and staff, including the use of electronic tools. The mobility offer will be adequately promoted among both students and staff.

Funding sources: Erasmus+, SMSP, earmarked funding of the MEYS, own resources, EU funds.

Measure: Mobility support for recipients of state benefits and the socio-economically disadvantaged (O_52)

Students with social benefits from disadvantaged socio-economic backgrounds or with other barriers to participation in mobility abroad are offered increased financial support using the opportunities offered by the Erasmus+ programme and the MOBI mobility programme.

Funding sources: Erasmus+, SMSP.

Measure: Improving the quality of activities related to the organisation and digitisation of mobility (O_53)

- In cooperation with other Czech and foreign universities, the issue of ensuring the possibility of virtual mobility at universities will be addressed and examples of good practice will be shared.
- The possibilities of further development of the computerisation of the administration of mobility processes with a link to existing university information systems and the transfer of information with partner institutions, for example using the EWP - Erasmus Without Paper platform, will be analysed. Sharing experiences and examples of good practice with other Czech and foreign universities will be used to address the issue.

Sources of funding: own resources, CDP, SMSP, Erasmus+, NRP.

Operational objective: Development of professional competencies of UCT Prague staff in the field of internationalisation (MEYS SI2021+: I1C)

Measure: Systematic development of employees' competencies in the field of internationalisation and their motivation to participate in mobility (O_54)

Internationalization will be further promoted by spreading awareness through internal communication channels of UCT Prague among employees. Employees will be able to participate in educational events (training), job shadowing, conferences and projects to strengthen their competences in this area. The development of the department of international relations website and the computerisation of agendas related to internationalisation activities will continue.

Sources of funding: own resources, SMSP, Erasmus+

Priority objective I2: Internationalisation of university study programmes

Operational objective: Increasing the number and quality of study programmes offered in foreign languages and joint study programmes (MEYS SI2021+: I2A)

Measure: Offer of study programmes responding to the demand of international students (O_55)

Negotiations will be held with partner institutions regarding the possibility of establishing new double/joint degree programmes and ensuring the implementation of existing programmes (joint defences) and their continuous evaluation and changes based on the experience gained so far.

Sources of funding: own resources, SMSP.

Measure: Quality assurance of study programmes and courses taught in English(O_56)

The promotion of the subject survey among students will be strengthened, including in subjects taught in English. For selected subjects taught in English, a feedback form will be used to focus on quality verification of English-taught subjects in comparison with their Czech equivalents.

Sources of funding: own resources.

Operational objective: Inclusion of the international dimension in the structure of study programmes, including mobility windows (MEYS SI2021+: I2B)

Measure: Incorporating international student mobility as an integral part of the curriculum (O_57)

- In relation to the current financial resources and study programmes, organisational and financial support will continue to ensure **compliance with the obligation to complete some form of foreign cooperation**, with a preference for outgoing mobility, within doctoral study programmes, in accordance with their accreditation, will continue; *synergy with the operational objective "Strengthening the quality, openness and internationalisation of doctoral studies", PC3*. For Master's degree programmes, the organisation of semester-long study stays at partner universities with an appropriate choice of subjects to guarantee the recognition of learning outcomes achieved during the stay abroad will be preferred.
- When designing new follow-up Master's degree programmes, it will be taken into account that they allow students to participate in foreign mobility without the need to extend their studies by introducing so-called mobility windows, or contain a larger number of elective courses (20 ECTS) that can be taken at foreign partner institutions.

Sources of funding: own resources, SMSP (MOBI programme), Erasmus+.

Priority objective I3: Simplifying the process of recognition of foreign education

Operational objective: Implementation of automatic recognition of education and study results abroad (MEYS SI2021+: I3A)

Measure: Unification of the Process and Criteria for Automatic Mutual Recognition of Results from Study Abroad at UCT Prague (O_58)

At UCT Prague, the digitalization of **the process of automatic recognition of education from abroad** will be launched; *synergy with the operational objective "Improving the recognition of prior learning results in further studies", PC2*.

Steps will be taken at the level of UCT Prague to develop rules for the recognition of study results from foreign mobility, especially with regard to the use of the concept of "Learning Outcomes". As part of the ongoing digitalization of processes and simplification of the administration of foreign mobility, the possibilities of automatic recognition and recording of achieved study results on the basis of the pre-approved study plan of the student before departure abroad will be explored.

Sources of funding: own resources, Erasmus+, SMSP.

Priority objective I4: Creating an international environment at universities and promotion abroad

Operational objective: Support for the development of international marketing of universities and the Czech Republic (MEYS SI2021+: I4A)

Measure: Provision of comprehensive information services to prospective foreign students (O_59)

The web pages of UCT Prague will be further developed to contain up-to-date, engaging and easy-to-find information about studying at UCT Prague for those interested in studying here from abroad and in English. There will be an analysis of the possibility of deploying technologies that will enable a better understanding of applicants' interest in studying and the deployment of more advanced metrics to measure their user behaviour leading to an increase in the number of applicants and their successful conversion. The possibilities of using social media to present the possibility of studying at UCT Prague to those interested in studying from abroad and in English will be analysed. Special care will be taken to provide individualised counselling services to applicants using all available communication channels. The possibility of deploying more advanced systems that will computerize and simplify work with prospective students will be analyzed, e.g. the possibility of deploying a CRM system.

Sources of funding: own resources, SMSP.

Measure: Institutional Scholarship Programme for International Students (O_60)

Motivationally, in the form of scholarships, the recruitment of talented foreign students to study programmes taught in English will be supported and their excellent academic achievements will also be rewarded. The scholarships will support the voluntary initiative of students beyond the basic study obligations and their participation in **improving the study conditions for foreign students** at UCT Prague, to improve the integration of foreign students into the life of the school while promoting studies at UCT Prague.

Funding sources: SMSP, Erasmus+, own resources.

Measure: Presentation of UCT Prague abroad using joint national initiatives (O_61)

Marketing activities related to the **promotion of UCT Prague abroad** will be implemented **to attract students** to study programmes taught in English and **academics, scientists and other staff** to fill vacant positions, using proven marketing tools such as participation in foreign higher education fairs, by using agencies recruiting foreign students, promoting study programmes on portals aggregating study offers, and by actively engaging in social media and other forms of online promotion reaching specific target groups. The preparation of printed promotional materials and other items will also be important. Involvement in the platforms "Study in the Czech Republic", coordinated by the Czech National Agency for International Education and Research, and "Study in Prague", based on the previous successful cooperation of Prague public universities, will continue, and the "Study in Prague" website will be continuously updated.

Funding sources: CDP, SMSP, own sources.

Operational objective: Development of services offered to international students and staff (MEYS SI2021+: I4B)

Measure: UCTP Welcome Centre (O_62)

It will continue to develop the activities of the Welcome Centre of UCT Prague (hereinafter the "Welcome Centre"), providing services to students and staff in the area of relocation to life in the Czech Republic. This mainly involves providing assistance in obtaining visas and residence permits for living in the Czech Republic, including for any family members. For this purpose, it cooperates with other entities, such as EURAXESS, organisations and associations providing counselling and assistance services to foreigners living in the Czech Republic or preparing for life in the Czech Republic, and other Czech universities. The Welcome Centre also helps with the integration of foreigners into life at UCT Prague and in Prague/the Czech Republic. To this end, it organises activities on its own or in cooperation with other entities. It also provides assistance to foreigners at UCT Prague in dealing with various life situations related to their relocation to the Czech Republic. The provision of services is digitalized by further development of the MobIS system, which the Welcome Centre uses to manage its agendas, including its interconnection to the IT infrastructure of UCT Prague. The Welcome Centre cooperates with other units of UCT Prague and provides assistance in securing employment of foreign nationals; for this purpose it monitors legislation, and participates in related training and demonstrations of good practice in the field of work with foreigners in the Czech Republic and abroad. It prepares information events and methodological guidelines for UCT Prague in the field of the admission of foreigners.

Funding sources: SMSP, own resources.

Measure: Development of cooperation with international student clubs (O_63)

Traditional forms of active cooperation with the international student associations IAESTE UCT Prague and Erasmus Student Network ESN UCT Prague will be developed in organizing and providing services for outgoing and incoming students. Both associations are provided with infrastructural facilities, targeted financial support and the cooperation necessary for their activities.

Funding sources: Erasmus+, own resources.

Operational objective: Work with foreign students and graduates (MEYS SI2021+: I4C)

Measure: Setting up a system of cooperation with foreign students and graduates (O_64)

Various forms of cooperation with foreign students and graduates will be further supported and developed to promote outward mobility to their home countries. Efforts will be made to involve more foreign graduates in the Alumni Club of UCT Prague and alumni of the Study in the Czech Republic programme and to use their ties to their "alma mater" to promote university studies at UCT Prague among potential applicants for study, in the form of various communication and promotional activities and other activities strengthening the internal internationalization of UCT Prague.

Sources of funding: own resources.

Priority objective I5: Strengthen the strategic management of internationalisation

Operational objective: Support for comprehensive internationalisation at institutional level (MEYS SI2021+: I5A)

Measure: Institutional strategies for internationalisation (O_65)

UCT Prague will continuously use the updated Action Plan resulting from the results of the MICHE (Monitoring Internationalization of Czech Higher Education) evaluation organized under the auspices of the Czech National Agency for International Education and Research, MEYS and EC. The action plan will be updated and developed to strengthen the internationalisation of UCT Prague.

Sources of funding: own resources, SMSP, Erasmus+

Measure: External quality assessment of activities (O_66)

The composition of the external advisory panel, whose members can professionally assess the quality of the activities implemented at UCT Prague, will be updated. This panel, composed primarily of renowned foreign experts, will be complemented by other experts from foreign universities and selected members of the Board of Trustees of the UCT Prague. In the following period, this panel will be used for external evaluation of the quality of activities and assessment of strategies developed for individual areas of activities of UCT Prague; *synergy with the operational objective "Building capacity for strategic management at UCT Prague", PC5).*

Sources of funding: own resources, SMSP.

Operational objective: Support for international cooperation of strategic partnerships and membership in international networks/organisations (MEYS SI2021+: I5B)

Measure: Connection of UCT Prague to international networks (O_67)

Cooperation with foreign (mainly European) related institutions in the field of research and education, in the organisation of summer schools and in the implementation of programmes to support student and staff mobility will continue to be supported and developed. For participation in international networks such as European Universities, Erasmus+ Strategic Partnerships, etc, central support will be provided at the level of the institution through the services of the Rectorate support offices.

Funding sources: SMSP, own resources, Erasmus+,

Measure: Active use of synergistic funding opportunities for European universities' projects from European Community programmes to support education and science and research (O_68)

The support provided by the Project Centre will continuously analyse the possibilities of synergistic financing of educational and scientific research projects from EU Community programmes and will provide administrative and technical support in individual phases of the life cycle of scientific research projects.

Sources of funding: own resources.

Conclusion

In the Plan of Implementation of the Strategic Plan of Educational and Creative Activities for 2023, UCT Prague lists a number of measures whose implementation will contribute to the fulfilment of its mission, i.e. the education of high quality university-educated professionals for industry, public and state administration, as well as top researchers and scientists contributing to the increase of the country's competitiveness and the development of an economy based on knowledge and innovation. An integral and permanent part of the mission of UCT Prague is also the active public promotion and popularization of technical and natural science disciplines, including their latest trends. All planned activities implemented within the framework of the individual priority objectives of the strategic plan of UCT Prague, including the priority objectives in the area of internationalization, are aimed at fulfilling the set objectives of SI2021+ and thus fulfilling our vision.

In 2023, the implementation of projects funded by the EU Operational Programmes for the period 2014-2020 will be gradually completed and the sustainability phase of some of these projects will run or be initiated, including strategic school-wide projects within the framework of the OP RDE, the solution and administration of which involved all parts of the university, including the rectorate departments. In parallel, applications for support will be prepared for the newly announced relevant calls for domestic and foreign providers of special-purpose (grant) support and the preparation of strategic projects for the announced and announced calls for the 2021-2027 programme period (OP JAK, OP TAC, Horizon Europe) will be launched in order to obtain funds for the development and improvement of the main and supporting activities of the university in the coming years. The implementation of projects for which UCT Prague has received financial support from various components of the National Renewal Plan will take place.

In 2023, the preparation and gradual implementation of investment projects related to the general renovation and reconstruction of premises for the provision of teaching, scientific research and other activities of UCT Prague will continue. There will also be a gradual renewal of the instrumental infrastructure needed to ensure quality laboratory teaching and scientific research activities. The limiting factor for all investment projects will be the amount of available funds.

Given the expected unfavourable development of the national economy in the context of the war conflict between Ukraine and Russia and the global economic impact of the covid-19 pandemic, the austerity measures already adopted in 2022 will continue. In order to finance the planned activities of the IPSI 2023, UCT Prague will make effective use of all available public financial resources, institutional and earmarked, as well as its own resources obtained from cooperation with industry.

Abbreviations used:

CDP	Centralised development programme
LLE	Lifelong education
LCDRO	Long-term conceptual development of the research organisation
DSP	Doctoral study programme
EU	European Union
FIS:	Financial Information System
JTF	Just Transformation Fund
FDP	Dagmar Procházková Fund
HRS4R	Human Resources Strategy for Researchers
IT	Information Technology
JIGA	Junior Internal Grant Agency of UCT Prague
MEYS	Ministry of Education, Youth and Sports
NRP	National Renewal Plan
PBD	Personal bibliographic database
OP	Operational programmes
OP JAK	Operational Programme Jan Amos Komenský
OP EIC	Operational Programme Enterprise and Innovation for Competitiveness
OP TAC	Operational Programme Technologies and Applications for Competitiveness
OP RDE	Operational Programme Research, Development and Education
PIGA	Pedagogical internal grant agency of UCT Prague
PIS	Personnel information system
CCC	Counselling and Career Centre
IPSI	Implementation Plan of the Strategic Planion
SSUR	Support for specific university research
SIS	Student Information System
SI	Strategic Plan
SIGA	Scientific internal grant agency of UCT Prague
HVS	Higher vocational school
UCT Prague	The University of Chemistry and Technology, Prague

Annex 1: Plan of investment activities of UCT Prague for 2023

1. Summary of investment activities for 2023

In accordance with the Strategic Plan of UCT Prague for the period from 2021, UCT Prague plans to implement investment actions in 2023 to ensure the development and renewal of construction, mechanical and instrumental and IT infrastructure associated with the implementation of the planned measures presented in the Implementation Plan of the Strategic Plan of UCT Prague for 2023.

On the basis of the "Development Master Plan", UCT Prague plans to implement several construction and investment projects in 2023 related to the construction of buildings A and B in Dejvice, the continuation of the reconstruction of student dormitories in the Prague 4 - Kunratice campus, and the reconstruction of the Běstvína Student Learning Centre. Due to delays in preparatory or implementation work or difficulties in securing enough funding for construction, the commencement of some projects has been postponed from the originally planned earlier years to 2023+.

The planned building modifications in Buildings A and B are mainly connected with optimizing the use of space capacity and also take into account the development requirements of individual departments of the faculties and the Rector's Office for the next period. In 2022, the dean's offices, most of the rector's offices and part of the school's management moved to a newly renovated office space in Building B (Zikova Street). In 2023, work will continue on the preparation of project documentation for construction modifications to the premises primarily for the purposes of laboratory activities in Building B (Studentská and Šolínova Streets) and reconstruction works in the relocated and existing premises in Buildings A and B (Technická Street).

An integral part of the reconstructions and building modifications of the university campus in Dejvice will be the continuous implementation of measures resulting from the fire safety solution.

The preparation of project documentation for the construction in the courtyard of Building B is postponed until 2024.

As part of the reconstruction of the Běstvína student learning centre (district of Chrudim), the construction of a medical infirmary and a roofed outdoor teaching area is planned for 2023.

In 2023, it is also planned to continue the gradual reconstruction of the university dormitories in Jižní Město, which is managed by the SÚZ UCT Prague.

A total of 7 investment sub-projects related to teaching are planned for 2023 at UCT Prague (Dejvice Campus, Běstvína Teaching Centre).

In addition to construction activities, in 2023, partial development and renewal of mechanical and instrumental infrastructure for the educational and research activities of UCT Prague is also planned, according to the needs of the individual parts of the school.

The main limiting factor that will fundamentally affect the implementation of the planned investment projects in 2023 will undoubtedly be the amount of financial resources that UCT Prague will be able to secure under institutional or earmarked funding.

From February 2021, UCT Prague, as the sole owner of the company Jankovcova 23, s.r.o., has the opportunity to use additional high-quality administrative premises with a total area of 4,000 m² (net office area of 2,500 m²), which are currently occupied by the Institute of Management and Economics and the Institute of Sustainability and Product Ecology, FET. The building capacity (max. 418 persons) is currently limited by fire-safety considerations and its increase is conditioned by a complete reconstruction of the building and a change of its use approved by the building department (change of administrative use to teaching and research use). In 2023, the preparation of project

documentation for the reconstruction of the building is planned (approx. CZK 5 mil.), with implementation in the following years, depending on the available financial resources (estimated at CZK 50 - 100 million). The reconstruction will be financed from the own resources of the company Jankovcova 23, s.r.o.

2. List of individual investment projects to be implemented in 2023

I. Commencement of design work for the comprehensive reconstruction of the premises vacated from the lease in building no. p. 1903 (Building B), Studentská and Šolínova Streets, Prague 6 - laboratory part

Brief description: a comprehensive reconstruction of parts of the building of UCT Prague No. 1903, Prague 6 - Dejvice, situated in Šolínova and Studentská streets, which were long-term used by CTU until the end of 2017 (in the form of a lease) and are now in a completely unsatisfactory technical condition. The aim is not only to adapt them to modern premises for the needs of UCT Prague, but also to meet all fire-technical, safety and hygiene regulations and standards.

The project will include a general reconstruction and conversion of unusable and non-functional office space into modern chemical laboratories designed for practical teaching of students in all types of study programmes (bachelor, master, doctoral), as well as for high-quality basic and applied research. In total, 960 m² of new laboratory space will be built, meeting all OHS and fire safety requirements, and equipped with efficient air conditioning, new media distribution and new IT infrastructure. The reconstruction of the laboratory space is synergistically connected with the reconstruction of the office space - workrooms for academic staff and students (approximately 1,270 m²). In total, this will create 2,230 m² of quality space for the needs of faculty institutes, Central Laboratories and other university-wide research facilities. Within the framework of the project, the office space will also be adapted for the needs of the central rectorate workplaces (320 m²). In addition, 510 m² of space for student lecture halls and rooms will be reconstructed. The project will also include a general reconstruction of sanitary facilities (120 m²) and communication areas (1,820 m²), and a small part of the premises will be adapted for IT needs (15 m²). A building permit will be required for the reconstruction of these premises with a total usable area of 4,700 m² (or a net usable area of 2,870 m²), as part of the premises are being changed from office to laboratory use.)

Estimated date of the implementation: 2023 - 2026; preceded by the preparation of a project design for the reconstruction of the building and the preparation of tender documentation for the selection of the contractor for project documentation, and the launch of a tender for the contractor for project documentation by the end of 2022. The design documentation is expected to be completed by the end of 2023. The construction will be completed between 2024 and 2026.

Estimated cost of the investment activity excluding VAT: The total projected cost of the entire project is CZK 480 million excluding VAT (of which CZK 330 million for construction works and design documentation, CZK 150 million for interior equipment), programme financing, EU funds (OP JAK), National Investment Plan, own resources (note: the scale of the planned investment project is so large that it cannot be implemented only from UCT Prague's own resources).

Link to SI 2021+ and IPSI:2023: Due to the long-term critical shortage of quality laboratory space as well as adequate administrative facilities in the historic buildings of the UCT Prague campus in Dejvice, the reconstruction of the vacant premises is absolutely necessary to remedy the current unsatisfactory state. The project is part of the Development Master Plan of UCT Prague. Its implementation will enable the launch of further follow-up stages of the spatial development of the school (reconstruction of the vacant space throughout the administrative offices in other buildings of the university campus, construction into the courtyard of Building B), operational optimization of the buildings, expansion of teaching and research spaces, solving the unsatisfactory level of fire safety, increasing the level of occupational health and safety, and meeting current hygiene regulations (e.g. efficient air conditioning). The implementation of this project will significantly

improve the working and teaching conditions for all faculties of the University and some of the Rector's offices. Selected departments from Building A and B (part of Technical Street) will be relocated to the newly renovated premises; *PC1 - measures for modernization and renewal of educational infrastructure (O_15)*, *PC3 - measures for space, social facilities, instrumentation and services for PhD students (O_27)*, *PC4 - measures for taking into account societal needs at national and global level in research priorities and allocation of resources within the institution (O_30)*.

Synergistic links to other investment projects: continuity with the reconstruction of the administrative premises in Building B released from long-term lease, which will be completed in 2022

Description of the current status of the investment project in 2023: basic consideration of the use of space within the Master Plan of UCT Prague

Work plan for 2023: commencement of the processing of construction documentation (building permit and implementation documentation).

Expected expenditure in 2023 and sources of financing: costs related to the preparation of tender documentation for the contractor of the design documentation in the amount of up to CZK 10 million ; own resources.

II. Start of the reconstruction of moved and existing premises (phase I) in building no. 1903, Technická Street, Prague 6 - laboratory part

Brief description: the project concerns the reconstruction of a part of the building of UCT Prague No. 1903, Prague 6 - Dejvice, situated in Technická Street, which will be vacated as part of the dislocation of some faculty and rectorate departments to the newly renovated premises after their return from the long-term lease of CTU.

The vacated premises will require a complete reconstruction, the purpose of which is not only to adapt to modern premises for the needs of UCT Prague, but also to meet existing safety and hygiene regulations and standards.

The project will include a general reconstruction and rebuilding (including media distribution and building new IT infrastructure) of the existing, long intensively used mainly office and laboratory space into modern chemical laboratories designed for practical teaching of students in all types of study programmes (bachelor, master, doctoral), as well as for quality basic and applied research. In total, 960 m² of new laboratory space will be reconstructed, meeting all OHS and fire safety requirements (equipped with efficient air conditioning). The reconstruction of the laboratory space is synergistically connected with the reconstruction of the office space - the offices of academic staff and students (180 m²). In total, this will create 1140 m² of quality space for the needs of the faculty departments. As part of the project, the rest areas for students (60 m²) will be further modified. The project will also include a general reconstruction of sanitary facilities (70 m²) and communication areas (250 m²). No building permit will be required for the reconstruction of these premises (total floor area of 1,520 m², of which the net floor area is 1,270 m²).

Estimated implementation date: 2022 – 2026.

Estimated cost of the investment activity excluding VAT: CZK 770 million (of which CZK 520 million is for construction works and design documentation and CZK 250 million for interior equipment).

Link to SI 2021+ and IPSI 2023: Due to the long-term critical shortage of quality laboratory space as well as adequate administrative facilities in the historic buildings of the UCT Prague campus in Dejvice, the reconstruction of the vacant premises is absolutely necessary to remedy the current unsatisfactory state. The project is part of the Development Master Plan of UCT Prague. The project is linked to the gradual relocation of the workplaces to the newly reconstructed premises in Building B (Zikova Street, Šolínova Street, (Studentská Street). The implementation of this project will significantly improve the spatial, working and teaching conditions at the workplaces of all faculties

of UCT Prague. This project is part of the Development Master Plan of UCT Prague. *PC1 - measure for Building infrastructure for education, PC3 - measure for Space, social facilities, instrumentation and services for PhD students (O_27), PC4 - measure for Taking into account societal needs at national and global level in research priorities and allocation of resources within the institution (O_30).*

Synergistic links to other investment projects: continuity with the reconstruction of administrative premises completed in 2022 and with investment project III.

Description of the current status of the investment project in 2023: the prepared construction documentation for the reconstruction of the laboratories for teaching biochemistry and microbiology allows the reconstruction work to commence.

Work plan for 2023: implementation of construction works and interior equipment of student laboratories for teaching biochemistry and microbiology; preparation of construction documentation for the reconstruction of the former dean's office of the FCT (Building A) into refreshment facilities.

Estimated expenditure in 2023 and sources of funding: costs related to the reconstruction and interior equipment of the biochemistry teaching laboratories in the amount of CZK 18 million excluding VAT, as well as the costs associated with the reconstruction of the refreshment area in Building A in the amount of approximately CZK 4 million ; Programme funding, own resources.

III. Implementation of fire-safety solutions within the reconstruction of buildings no. 1903 and 1905 (buildings A and B), Prague 6

Brief Description: As part of the planned extensive general reconstruction in historic Buildings A and B, the following system measures will be continuously implemented in the fire safety solution of these buildings:

- installation of electrical fire alarm detectors in all areas of both buildings with the potential for occurrence of gases and vapours that may endanger the health and life of persons. In logical continuity with the electrical fire alarm system, the installation also of a gas detection system;
- construction of protected escape routes with forced ventilation, with a phased solution (addition of resistant elements of the building structure, subsequent replacement of existing doors with fire-resistant doors);
- construction of new safe storage facilities for pressurised gas cylinders (inner courtyard of Building A).

Estimated implementation date: 2021 - 2025 (continuous implementation of the fire safety measures in the framework of the ongoing reconstruction works in buildings A and B)

Estimated cost of the investment activity excluding VAT: CZK 30 million excluding VAT.

Relationship to the SI 2021+ and IPSI:2023: the project is a very important part of the Development Master Plan of UCT Prague. Its implementation will allow to solve the unsatisfactory level of fire safety and significantly increase the standard of OSH; *PC1 - measures for modernization and renewal of infrastructure for education (O_15), PC3 - measures for space, social facilities, instrumentation and services for PhD students (O_27), PC4 - measures taking into account societal needs at national and global level in research priorities and allocation of resources within the institution (O_30).*

Synergistic links to other investment projects: interdependence with investment projects I and II.

Description of the current status of the investment project solution in 2023: technical solution of fire safety equipment for investment actions I and II developed; documents prepared for the processing of project documentation for the storage of pressure cylinders.

Work plan for 2023: preparation of project documentation and implementation of the construction of the pressure cylinder warehouse; implementation of the modification of the side entrance on

Building A to Thákurova Street.

Estimated expenditure in 2023 and sources of financing: construction costs of the pressure cylinder warehouse of CZK 8 million excluding VAT; modification of the entrance to Thákurova street in the amount of CZK 1 million excluding VAT; Programme financing, own resources.

IV. Courtyard extension in building no. 1903 (Building B), Prague 6

Brief description: the building in the courtyard of Building B will connect the spaces on the side of Studentska, Zikova and Technicka Streets. The design envisages the construction of technology halls, a social centre with quality refreshment facilities and a number of new modern laboratories located over five floors. The area of laboratories and technical premises is planned to be 5,500 m², office space should occupy an area of 750 m². An area of 2,690 m² will be set aside for social and catering purposes. The building will also include underground car parks with a capacity of about 300 parking spaces. For the construction of the new premises with a total useful area of 17,700 m², or a net useful area of 14,900 m², it will be necessary to prepare relatively extensive construction documentation.

Estimated implementation date: 2025 - 2030 (2025 - 2027 design documentation, 2028 - 2030 construction implementation).

Estimated cost: CZK 1,030 million excluding VAT (CZK 80 million excluding VAT for design documentation, CZK 630 million excluding VAT for construction, CZK 320 Million excluding VAT for interior equipment)

Link to SI 2021+ and IPSI:2023: this project is part of the Development Master Plan of UCT Prague. The construction of a modern courtyard technology building in the courtyard of Building B will lead to a significant increase in available space capacity with a positive impact on the increase in the space needs satisfaction index identified in the Master Plan by 15-20% to 85%; *PC1 - measures for modernisation and renewal of infrastructure for education (O_15)*, *PC3 - measures for space, social facilities, instrumentation and services for PhD students (O_27)*, *PC4 - measures for taking into account societal needs at national and global level in research priorities and resource allocation within the institution (O_30)*.

Synergistic links to other investment projects: continuity with investment projects I and II.

Description of the current status of the investment project in 2023: basic architectural study.

Work plan for 2023: preparation of documents for the implementation of the tender procedure for the contractor of the project documentation so that the implementation of the tender procedure can start in 2024 and the work on its preparation can begin.

Estimated expenditure in 2023 and sources of funding: no funding required.

V. Reconstruction of the Běstvína Student Learning Centre - infirmary, roofed outdoor teaching area

Brief description: another part of the reconstruction works aimed at the commissioning of the infirmary, the outdoor roofed teaching area and the ongoing improvement of the outdoor sports fields.

Estimated implementation date: 2023-2024 (preparation of design documentation and actual implementation of the construction).

Estimated cost: CZK 4 million excluding VAT.

Link to SI 2021+ and IPSI:2023: this project is part of the Development Master Plan of UCT Prague. Modernization of the infrastructure of the student learning centre will allow to significantly improve the quality of practical field teaching, increase the standard of familiarization courses for the first year of undergraduate studies, sports courses, popularization events for primary and secondary school

students and preparatory courses for the Chemistry Olympiad; *PC1 - measures for modernization and renewal of infrastructure for education (O_15).*

Synergistic links to other investment projects: no direct links to other investment projects.

Description of the current status of the investment project in 2023: the construction documentation for the implementation of the construction has been prepared.

Work plan for 2023: implementation of the construction of an infirmary and an outdoor roofed teaching area.

Estimated expenditure in 2023 and sources of funding: CZK 4 million without VAT; own resources.

VI. Exchange and purchase of land under the dormitory buildings in Prague 4 - Kunratice from the Prague City Hall to the ownership of UCT Prague

Brief description: exchange or purchase of land (6,000 m²) under the student dormitory buildings in Prague 4 - Kunratice from the City of Prague to the ownership of UCT Prague for other land owned by UCT Prague.

Estimated implementation date: 2022 - 2023.

Estimated costs: in case of exchange 0 CZK, in case of exchange connected with land purchase max. CZK 8.5 million excluding VAT.

Relationship to SI 2021+ and IPSI:2022: this project is part of the overall master development plan of the University of UCT Prague.

Synergistic links to other investment projects: no direct links to other investment projects.

Description of the current status of the investment project in 2023: on the basis of negotiations with the City of Prague, the financial aspects of the transaction have been resolved (expert opinions on the land to be exchanged have been prepared.)

Work plan for 2023: exchange, possible purchase of part of the land.

Estimated expenditure in 2023 and sources of funding: max CZK 8.5 million excluding VAT; own resources.

VII. New construction of the buildings of UCT Prague, Vítězné nám., Prague 6

Brief Description: A new academic building with 5 floors above ground, 3 underground floors, with a floor plan of approximately 2,000 m², gross floor area of 15,000 m² and net floor area of 12,000 m², built on part of the land on Vítězné náměstí, Prague 6, owned by UCT Prague (land situated along Šolínova Street). It will be a modern building of office and teaching character, where no laboratory teaching is expected (only offices, seminar rooms, lecture halls and theatres, facilities for student activities, doctor). An essential part of the academic building will be underground parking spaces (2 floors) for the use of staff and students. V 1. The ground floor is planned to be a commercially used retail space, with the proceeds from the lease will fund the operation of the building. The Rector's administrative offices, the dean's offices of the faculties and institutes providing only theoretical teaching and scientific research activities will be moved to the new administrative building. The spaces vacated in the historical buildings A and B will be dislocated to the institutes of the individual faculties.

Estimated implementation date: 2023 - 2029 (2023 - 2026 project documentation, 2027 - 2029 construction implementation).

Estimated cost: CZK 790 million excluding VAT (CZK 40 million excluding VAT for design documentation, CZK 750 million for construction and interior equipment).

Relationship to SI 2021+ and IPSI:2023: this project is part of the overall Development Master Plan of UCT Prague.

Synergistic links to other investment projects: interdependence with investment projects I, II and III.

Description of the current status of the investment project in 2023: architectural concept developed as a result of an international architectural competition

Work plan for 2023: commencement of work on the preparation of documents for building permits (EIA, DSP).

Estimated expenditure in 2023 and sources of funding: CZK 15 million excluding VAT; own resources.

VIII. Acquisition of machinery and equipment for the renovation and modernisation of workplaces

Within the faculties and central departments of UCT Prague, it is planned to purchase instrumentation with a total value of CZK 310.6 million excluding VAT, and within the Technopark Kralupy, which focuses on applied marketable research, another CZK 9.2 million excluding VAT. The acquisition of equipment in 2023 depends on securing sufficient financial resources.

The following text gives an overview of the plans for the acquisition of machinery and equipment for individual units of UCT Prague:

Faculty of Chemical Technology (FCHT)

Instrumentation and technological equipment will be acquired to ensure teaching and research in the fields of the faculty (inorganic chemistry and inorganic technology, metallic materials and corrosion engineering, glass and ceramics, chemistry of solids, organic chemistry and organic technology, polymers).

Estimated INV funds: CZK 88.9 million excluding VAT.

Sources of funding: EU funds (OP JAK) and other public sources, own resources.

The most expensive instruments purchased (\geq CZK 5 million excluding VAT):

- STA-MS with ultra-precise thermogravimetry (CZK 7 million excluding VAT),
- nuclear magnetic resonance (NMR) (CZK 8 million excluding VAT),
- docking station with an assembly of augers, heads, sensors and accessories (CZK 7.9 mil. excluding VAT).

Faculty of Environmental Protection Technology (FET)

Instrumentation and technological equipment will be acquired to ensure teaching and research in the faculty's fields of competence (petroleum and alternative fuels technology, gaseous and solid fuels and air protection, water and environmental technology, energy).

Estimated INV funds: CZK 12.3 million excluding VAT.

Sources of funding: EU funds (OP JAK) and other public sources, own resources.

The most expensive instruments purchased (\geq CZK 2 million excluding VAT):

- FTIR measuring cell for the study of adsorption on catalysts (CZK 2 mil. excluding VAT)
- packed bed reactor - autoclave with accessories (CZK 2 mil. excluding VAT),
- ion chromatograph (CZK 4 mil. excluding VAT).

Faculty of Food and Biochemical Technology (FFBT)

Instrumentation and technological equipment will be acquired to support teaching and research in the faculty's fields of competence (biotechnology, biochemistry and microbiology, carbohydrates and cereals, milk, fats and cosmetics, food and nutrition analysis, food preservation).

Estimated INV funds: CZK 87.7 million excluding VAT.

Sources of funding: EU funds (OP JAK) and other public sources, own resources.

The most expensive instruments purchased (\geq CZK 5 million excluding VAT):

- microcalorimeter (CZK 5 mil. excluding VAT),
- set of equipment for the virology and bacterial pathogens laboratory (CZK 10 excluding VAT),
- thermal desorption + gas chromatograph with mass spectrometry (CZK 5 mil. excluding VAT),
- mass spectrometer (QTOF TIMS) (CZK 23 excluding VAT),
- two-dimensional gas chromatograph and high-resolution, mass-spectrometric detector and SPME unit (CZK 16 mil. excluding VAT).

Faculty of Chemical Engineering (FCI)

Instrumentation and technological equipment will be acquired to ensure teaching and research in the fields of the Faculty's competence (analytical chemistry, physical chemistry, chemical engineering, physics and measurement technology, computer and control technology).

Estimated INV funds: CZK 85.4 million excluding VAT.

Sources of funding: EU funds (OP JAK) and other public sources, own resources.

The most expensive instruments purchased (\geq CZK 5 million excluding VAT):

- complex two-dimensional gas chromatography (GCxGC-MS) (CZK 13 mil. excluding VAT),
- liquid chromatograph - mass spectrometer (LC-MS) with high resolution (CZK 14 mil. excluding VAT),
- instrumentation of the specialisation and PhD laboratories of the Institute of Analytical Chemistry (e.g. THz, GC-MS, LC-MS, ITP, CV, NIR) (CZK 7 mil. excluding VAT).

Technopark Kralupy

Instrumentation and technological equipment will be acquired to provide equipment for the scientific research workplaces operating in the Technopark in the fields of construction chemistry and related material fields.

Estimated INV funds: CZK 9.2 million excluding VAT.

Sources of funding: own resources, EU funds (OP EIC) and other public sources.

The most expensive purchased devices ($>$ CZK 1 million excluding VAT):

- constant load test equipment battery 5 pcs (CZK 6.5 mil. excluding VAT),
- impact and notch toughness of the Charpy (CZK 1.5 mil. excluding VAT).

Within the framework of the joint **rectorate workplaces**, UCT Prague plans to invest approximately CZK 36.3 million excluding VAT in machinery and instrumentation. Funding will be provided mainly from own resources or from the programme funding of the Ministry of Education.

Central laboratories of UCT Prague

Testing, measuring and laboratory instruments for the analysis of chemicals and materials will be renewed in the amount of CZK 29.1 million excluding VAT. The most expensive instruments purchased (\geq CZK 2 million excluding VAT):

- dispersive Raman spectrometer with a cell for temperature measurements, variable excitation wavelength and measurements in the Stokes and anti-Stokes region and polarization) (CZK 4 mil. excluding VAT)
- LC-HRMS Orbitrap-HPLC assembly (CZK 19 mil. excluding VAT).

Computer Centre of UCT Prague

It plans to purchase or renew basic IT infrastructure in the amount of CZK 7.2 mil. excluding VAT. The most costly investments (\geq CZK 2 million excluding VAT):

- replacement of servers whose support is ending (CZK 3.9 mil. excluding VAT),
- replacement of back-up devices for which support is ending (CZK 2.5 mill. excluding VAT).