

University of Chemistry and Technology, Prague

A public higher education institution

# Annual Activity Report 2022

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Rector

Reviewed by the Scientific Board of UCT Prague

Date: 14 May 2023

Approved by the Academic Senate of UCT Prague

Date: 30 May 2023

Reviewed by the Board of Trustees of UCT Prague

Date: 9 June 2023

Prague, June 2023

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## A. Annual Activity Report – Main Section



### Rector's Statement

**The University of Chemistry and Technology, Prague presents its Annual Report on activities carried out in the calendar year 2022 in accordance with Section 21 of Act No. 111/1998 Coll. on Higher Education Institutions.**

Originally, UCT Prague planned to dedicate 2022 to autumn celebrations of the 70th anniversary of the university's establishment as an independent institution. The plans, however, had to be considerably reviewed as early as in February, due to Russia's military aggression against Ukraine. Despite the fact that the act itself was, and regrettably continues to be, unacceptable in modern democratic society and contradictory to fundamental human values, I am proud that UCT was able to rapidly complete the necessary administration and provide Ukraine with effective assistance. That included financial aid, relief shipped to the shelled city of Mykolaiv, accommodation for refugees at our student residence, and language courses. I sincerely hope that Russia's military actions will end soon, and life in Ukraine, and elsewhere in the world, will continue to unfold in accordance with the principles of freedom, harmonious social development, nature conservation, and cultural heritage protection.

Another factor that affected life at the university in the reported year was a double-digit inflation and sharply rising energy prices. Thanks to effective, timely savings, we managed to cope with the challenge, and UCT concluded the past year in a good financial condition without having to reduce in-house tuition and research, impose home office arrangements, or, worse still, resort to layoffs.

Despite the numerous complications, 2022 was a successful year, as UCT met or came close to fulfilling a large number of the targets constituting the university's mission and vision. September saw the launch of UCT's new International Advisory Board, which includes academics and entrepreneurs from Austria, France, Germany, Hungary, and United Kingdom. Its main task will be to intensify internationalization and improve UCT's attractiveness to both domestic and international employees and students. We completed extensive reconstruction of Building B, which allowed relocating the Rector's Office and freeing much needed space for research teams and new laboratories. In the academic sphere, our profession-oriented industrial chemistry programs were successfully accredited. We began offering courses providing expertise and competence in the field of sustainability and circular economy. Another major achievement was the accreditation of a master's program aimed at chemistry education, because educated secondary school teachers are a prerequisite for increasing the number of motivated, successful applicants for university enrollment. In this context, I must mention the opening of UCT's 10 new Chemistry Centers, where the best teachers share good education practice with their counterparts from the regions.

Being a research university, our lasting objective is to improve the conditions for our doctoral students. Accordingly, we joined PRIDE in July 2022, an association dedicated to the professional growth of academics and administrative staff in the context of doctoral study programs. An important step forward was UCT's joining of the EUA Council for Doctoral Education (CDE), an international network of universities and institutions dedicated to doctoral education and training for specialized research.

Our overall performance in science, research, development, and innovations was similar to the preceding year – 283 research and development projects and 34 international ventures represent a slight decrease and increase, respectively. Strategically important was the fact that UCT Prague became part of a new platform for excellent research, the National Institute of Virology and Bacteriology, which brings together leading Czech experts for the purpose of conducting basic and clinical research into viruses and pathogenic bacteria. We must use to the maximum every opportunity to develop research in fields with widespread societal impact in the Czech Republic and beyond.

I am very pleased about the achievements of four of our young scientists in Junior Star GACR, a highly competitive challenge that provides researchers with a unique opportunity to pursue independent research and establish scientific teams dedicated to novel progressive topics. Likewise, I am happy to report that UCT was joined in 2022 by Andrea Brancale, a leading international expert from the Cardiff University who specializes in medicinal chemistry. Also promising in that vein is a joint project of Professor Karel Friess and Professor Mircea Dincă from the prestigious Massachusetts Institute of Technology (MIT). Among other indicators, UCT's rise in the international science community is evidenced by a conference of Hydrogen Europe Research hosted last May on our premises, and participation in PARC, an extensive multinational project aimed at effecting a major reduction in the impact of chemicals on human health and the environment.

Despite various obstacles, UCT is gradually succeeding in attracting international students, as witnessed by a 33% increase in self-paying students and high interest among exchange students to complete the Erasmus+ program in our institution. Helping international students and employees adapt to a new environment and academic life is the task of the Welcome Office run by the Department of International Relations.

In contrast, improvement is needed in one of UCT's traditional fortes – partnerships with the industrial sector. UCT's revenues from contract research and development in 2022 amounted to CZK 56.13 million, an 11.5% year-over-year decrease. Likewise, one new patent and one license for a spin-off firm can be considered below-par performance. In the future, UCT must strive to preserve its exceptional status in partnerships with the commercial sector, and develop technologies and solutions at a rate corresponding to its resources and expertise. Accordingly, we will pay closer attention to this area in formulating our strategic plans for the forthcoming year.

To conclude, I want to come back to the September celebrations of the 70th anniversary of UCT's existence as an independent institution. The award of honorary doctorates to Professor Zažímalová, Professor Seeberger, and Doctor Hostomský, and the Emil Votočka Medal to Professor Hof and Professor Procházka together with a new book about UCT's history, a culture festival, and a scientific conference were a dignified reminder of not only the respectable anniversary, but also the values on which our university relies – openness, fairness, and moral integrity. Let's together continue defending these values in 2023 and beyond to make sure that UCT Prague remains a place where it is a delight to work and study.

Prof. Dr. RNDr. Pavel Matějka

Rector

# 1 Developing Expertise Directly Relevant for Life and Work in the 21st Century

## Support for the Development of Staff Competencies for Teaching and Degree Programme Design (MEYS SP2021+: 1A)

### PIGA and the Pedagogical Conference

In 2022, the Internal Grant Agency of UCT Prague announced Category C – a competition involving Pedagogical Projects of Students and Academics (**PIGA**). The submitted **Innovative Pedagogical Projects** (Type C1) primarily focused on creating and innovating teaching and study support materials, in both text and multimedia formats, increasing the number of subjects taught in English, and implementing new teaching formats (workshops, projects, etc.). The university-wide grant committee for pedagogical projects selected 47 entries from 54 submitted, based on the extent to which their subject and quality met the competition requirements. PIGA 2022 was fully financed using UCT's resources in the amount of CZK 6.4 million.

In mid-December, the Department of Lifelong Learning organized the second edition of the **Pedagogical Conference**. Financed under the Program of Support for Strategic Management of Higher Education Institutions for the Years 2022-2025, the event followed up on last year's inaugural edition funded in the framework of the 2021 UCT Prague Institutional Plan. Held on an in-person basis, the conference was simultaneously live streamed. There were 12 presentations followed by a discussion. The presentations were structured into three blocks and three single-topic lectures. The block presentations focused on sharing experience from the preparation of tasks for student (self-)testing in the Moodle (e-learning) system, creating training videos for laboratory work, and new teaching styles. The lectures targeted experience with project-based teaching and the current activities of UCT's Counselling and Career Center. A new feature was a student presentation comparing teaching formats and methods at UCT Prague and universities in other countries.

### Students Awarded the Vitriol Prize for Academic Activity

Student choice awards bestowed on professors have a long tradition at UCT Prague. The reported year saw the second edition of the Vitriol Prize awards, which took place at the UCT Prague Dance Party in November 2022. The awardees in the Best Professor Category included Ing. Petra Ménová, Ph.D. (FCT), Dr. Ing. Pavla Šmejkalová (FET), Doc. Ing. Jan Staněk, CSc. (FFBT), PhDr. Pavel Galář, Ph.D. (FCE), and Ing. Roman Thomas Sedlar, MBA, Msc. who received the award for university-wide activities. The award in the Non-Academic Staff Category went to Tomáš Filous.

The Vitriol Award is given by students to the most popular faculty members and non-academic staff of UCT Prague. Its objective is to reward individuals who walk the extra mile in innovating teaching methods, use their enthusiasm and expertise to motivate students, provide students with support, and act as mentors when necessary. UCT students can nominate candidates for the

award throughout the year. Nominations are reviewed in September by a committee consisting of student representatives elected to academic senates.

## Strengthening the Link between Study and Practice, and Preparation for Future Employment (MEYS SP2021+: 1C)

### Implementation of Educational Projects in the framework of the Research, Development, and Education Operational Program (RDE OP)

The year 2022 was to be the last year of **UCT Prague Priorities**, a strategic university-wide project executed under the ESF Call for Universities under the RDE OP, which UCT Prague launched in mid-2017. In 2022, about 50 individuals from the ranks of faculty employees and the Rector's Office staff took part in the project. With CZK 146 million in total eligible costs, the project aims to improve the quality and effectiveness of education at UCT Prague through such interventions as promoting bachelor's and master's study programs focused on real-world needs, strengthening internationalization, using teaching methods conforming to the latest academic trends, defining minimum standards for services for students with special needs, reducing academic failure, supporting cooperation with the Alumni Club, and establishing and developing the transparent internal quality assurance systems. The project is implemented through nine key activities. The project has been extended until the spring of 2023 due to delays in the accreditation of a study program which is required for meeting the project indicators and which is directly linked to infrastructure procured under a complementary project executed under the ERDF Call for Universities issued as part of RDE OP *Infrastructure for UCT Prague Priority*, which was completed in the spring of 2022, whereupon a five-year sustainability began in November 2022.

Last fall saw the completion of the **CHEMPRAX** project, executed under the ESF Call for Universities II under the RDE OP. Total eligible project expenses amounted to CZK 19 million. The objective was to improve the quality and effectiveness of practicum training at UCT Prague through developing bachelor's and follow-up master's programs that reflect real-world needs and respond to current economic and societal conditions, strengthening and deepening UCT's internal internationalization, using modern teaching trends, and expanding services for students with special needs. At the same time, the complementary OP RDE project *Infrastructure for Chemprax* ended, which was executed under the ERDF Call for Universities II to create appropriate infrastructure. Following the review of the final reports, the project will enter the five-year sustainability phase at the beginning of 2023.



### NRP for Higher Education Institutions

At the beginning of the year, UCT Prague submitted a **project proposal under the NRP for Higher Education Institutions for the Years 2022-2024** to the Ministry of Education, Youth, and Sports.



The proposal includes several projects that respond to the **specific targets of Calls A to C**. In the framework of Call A, the presented project aims to reinforce the digitization of student affairs and to support online and distance learning at UCT. Other goals include enlarging the portfolio of certified lifelong learning courses and creating study programs aimed at responding to real-world needs, including the procurement of necessary hardware and software for the conduct of relevant activities. Projects presented as part of Call B included the preparation of two bachelor's and one doctoral study program, where aid was granted to only one of the former and to the latter. In the framework of Call C, UCT Prague joined three shared university projects aimed at improving the availability of tertiary education through micro-certificates, the security of distance learning formats, and the digitization of tasks directly related to teaching and the administration of student affairs. UCT Prague received **CZK 89.3 million** in a government subsidy to execute a project involving the staff of the Rector's Office and individual faculties. The project will be executed until June 2024, after which a five-year sustainability period will follow.

### 2022 Student Science Conference

As every September, UCT Prague held the **Student Science Conference (SSC)**, where students enrolled in bachelor's and master's programs presented the results of their research. As many as 570 entries were divided into 73 sections, according to the specialization, at individual faculties, the UCT Prague – Unipetrol University Center in Litvínov, and at the School of Business. All competitors presented their entries in a short exposition before the evaluation board. As every year, apart from being assessed by boards composed of UCT's professors, student entries were reviewed and rewarded by in-kind and financial prizes from representatives of the industrial sector. The competition included an introduction of members of the evaluation board and presentations of the sponsors, who used the event to present students with the prospects of future employment. Hence, the conference also provides an opportunity for coordinating interests and fostering partnerships between the academic and industrial sectors.

### Awards Granted to UCT Prague Students

Every year, the high quality of papers presented by UCT students at all academic levels is evidenced by numerous awards given for bachelor's, master's, and doctoral theses and for presentations of their involvement in research in the form of poster presentations at international conferences.



#### STEM AWARD

**Anastasia Polách**, a graduate from the Faculty of Food and Biochemical Technology placed first in the Czech part of the **SHE STEM Award** competition for the best bachelor's thesis in a technical field submitted by a female student organized by the Brno branch of the international nonprofit organization Society of Women Engineers in cooperation with Honeywell spol. s r. o. She won thanks to her bachelor's thesis

titled *Characterization and Classification of a Novel Bacterial Isolate of the Family Cellulomonadaceae Using a Polyphasic Approach*. She received a fully paid participation at the

international WE Local Conference in Barcelona. **Markéta Hudcová** from the Faculty of Chemical Technology placed third among 23 entrants with her bachelor's thesis entitled *Imidazolinium-Based Catalysts for Styrene Carbonate Preparation*.

The ninth edition of the **Crytur Awards** in 2022 featured 56 registered theses from students of 10 universities; 11 theses were submitted by UCT Prague students. The winner was **Ing. Adam Baláž** from UCT Prague (FCE) who presented a thesis titled *Study of Drug Delivery to Tumors Using Advanced Liposomal Formulations*. The jury praised the formal aspects of the work, its up-to-date character, and usability in practical applications. The competition for the best thesis in materials sciences aims to support the further growth of talented researchers in technical fields. The award was presented to the winner and his supervisor **Ing. Denisa Lizoňová, Ph.D.** (Department of Chemical Engineering, FCE) by representatives of the Turnov-based Crytur at the company's head office. Further, the jury awarded two **honorable mentions**, one to **Ing. Alžběta Zemánková** (FCE) for a thesis titled *Investigation of Phase Behavior and Physical Stability of Co-Amorphous Systems for Drug Delivery Systems*. Her thesis supervisor was **Doc. Mgr. Fatima Hassouna, Ph.D.** (Department of Mathematics, Informatics and Cybernetics, FCE).



In May 2022, the Czech Chemical Society and the Czech Society for Biochemistry and Molecular Biology teamed up with the main partner, Merck Life Science spol. s r.o., and other sponsors to organize the annual **Interdisciplinary Meeting of Young Researchers and Students in the Field of Chemistry, Biochemistry, Molecular Biology, and Biomaterials**. The event is open to young researchers and students aged up to 35 years, who are employed in the Czech Republic or in Slovakia. Entries are submitted in English. Held in Milovy, the conference included rewarding the best presentations delivered in the framework of four specialized sections. The winner in the Organic Chemistry and Catalysis Section was **Ing. Tereza Černá** (Department of Organic Chemistry, FCT) who delivered a presentation titled *Design and Synthesis of Easily Tunable Optically Pure Spiropyrans*. She received two awards for her entry – the prizes for the best presentation based on ratings given both by the expert jury and by participants attending the conference. The first place in the Advanced Analytics in the Natural Sciences section went to **Ing. Markéta Šimková** (Department of Chemistry of Natural Compounds, FFBT) who delivered a presentation titled *Steroid Profiling in Human Plasma, Prostate, and Testicular Tissue*.

**Students enrolled in the Sectoral Management master's program** (School of Business) **won the national stage of the student competition** Project Management Championship organized by the international organization IPMA and held on home turf of the Holešovice Campus. The **IPMA Project Management Championship** is a three-stage competition consisting of the qualification round, national finals, and the international final. Targeted at university students specializing in project management, the event's core objectives include enhancing students' interest in professional project management at the national and international levels as well as sharing know-how between the research and business worlds. The assignment consisted of organizing

an event showcasing luxury electric cars using project management tools and staging a presentation before the expert evaluation panel. The best result was produced by the winning team composed of UCT Prague students **Kateřina Kleinová, Lenka Filipiaková, Marina Gončarova, and Timotej Pitakov**. The students won a free-of-charge test for Level D IPMA certification together with the opportunity to represent the Czech Republic at the June final in Berlin.

At the beginning of the year, the Pharmaceutical Applied Research Center (The PARC), founded by Zentiva Corporation in partnership with UCT Prague, Faculty of Science of Charles University, and the Institute of Organic Chemistry and Biochemistry of the Academy of Sciences of the Czech Republic, presented doctoral students with **The PARC Awards** for excellent academic achievements in applied research and development of pharmaceuticals. Doctoral students received awards in two categories. For a second time, the **Student Choice Award** went to **Ing. Vojtěch Klimša** (Department of Chemical Engineering, FCE) for a project titled *High-Throughput Screening of Spray-Dried Formulations*. **Ing. Dita Spálovská** (Department of Analytical Chemistry, FCE) placed second with a project titled *Vibrational and Chiroptical Spectroscopy as an Advanced Tool for Studying the Structure and Identification of Pharmaceutically Important and Psychoactive Substances*. **Ing. Nikita Marinko** (Department of Organic Technology, FCT) placed third with a project titled *Combined In-Silico and Experimental Approach to Efficient Scaling Up of Processes in the Pharmaceutical Industry*. The **Expert Choice Award** was bestowed on **Ing. Erik Sonntag** (Department of Chemical Engineering, FCE) for a project titled *Robotic Line For Continuous Production of Personalized Formulations*. The PARC Center brings together young talents and leading pharmaceutical experts and academics with the aim of accelerating innovation in the research and development of medicinal products. The facility is headed by Scientific Director Prof. Ing. František Štěpánek, Ph.D. (Department of Chemical Engineering, FCE).

### Sustainable Life

In the framework of the European Sustainable Development Week, a **symposium** titled **Sustainable Life** was held at the Department of Sustainability and Product Ecology (FET) in September. The event was launched by officials from the Norwegian and Finnish embassies, who also opened an exhibition titled Sustainable Nordic Cities. The program of the symposium included unveiling the freshly accredited master's study program Sustainability and Circular Economy as well as numerous lectures aimed at current sustainability topics researched at UCT Prague. The participants included students, experts from enterprises, industrial associations, nonprofit organizations, and the public administration. They praised the expertise



exhibited at the symposium and its atmosphere, and expressed interest in another edition of the event.

The FET's approach to sustainability is comprehensive and includes raw material security, water management, climate protection, reduction of toxic substances in the environment, remediation of environmental pollution, eco-design, carbon footprint, and social and economic aspects of environmental protection. All these topics are included in UCT's study programs as part of its dedication to introducing novel solutions to real-world applications.

### Memorandum of Cooperation between UCT Prague and the Czech Anti-Doping Committee

In February 2022, Prof. Pavel Matějka, Rector of **UCT Prague**, and JUDr. Jiří Janák, Director of the **Czech Antidoping Committee**, signed a **memorandum of cooperation** between the two organizations. The purpose is to forge a partnership providing mutual support in regard to antidoping issues. The cooperation will focus on preparing methodological, educational, and awareness-raising activities, organizing joint seminars and training events, analyzing prohibited substances and their abuse, and identifying suitable candidates from the ranks of UCT Prague students and academics for future affiliation with the Czech Antidoping Committee.

### Facilitating the Transition between Secondary and Tertiary Education

UCT's **cooperation with secondary schools** focuses on both students and teachers. Activities are aimed at enriching and improving chemistry programs in secondary schools, presenting UCT's study programs to prospective students, assisting them with selecting a suitable course of study, and, no less importantly, ensuring that they possess the knowledge and skills needed for university enrollment. These activities are continually developed and fine-tuned. They are partly funded from the Program of Support for Strategic Management of Higher Education Institutions.

An example is the **Modern Chemistry Lessons (MCL)**, where UCT's staff use an interactive format to teach a chemistry lesson at a secondary school, during which they perform numerous experiments, present the latest chemistry trends, demonstrate chemistry in practical applications that are indispensable in everyday life, and answer questions asked by students. Thanks to this long-established program, UCT Prague is able to assist prospective students with the selection of a suitable course of study. In 2022, as many as 130 Modern Chemistry Lessons were given to no fewer than 7,800 secondary school students.

The purpose of the **Open University Program** is to facilitate the transition from secondary school to the university level. It allows secondary school students to obtain a first-hand experience of life in the actual university setting, with active guidance from students enrolled at UCT. Prospective students choose their guide based on their bio on the UCT website, and subsequently spend a day at the university in their company. That includes a visit to the laboratories, classrooms, cafeteria, and other parts of the university campus. During the day, the guests experience the university's atmosphere and learn large amounts of facts and information about the reality of studying at UCT Prague. Thus gained knowledge helps applicants to make the right decision in choosing their university and academic program. In 2022, **an individual visit offered**

**under the Open University Program** was taken advantage of by 63 prospective students, who chose from 14 guides from the ranks of UCT's students.

As every year, 2022 saw UCT Prague attend the **Gaudeamus post-secondary and lifelong education fairs**. Our representatives provided prospective university students and other individuals interested in improving their qualifications in the fields taught at UCT Prague with a plethora of useful facts, offered information brochures and promotional materials, and shared their experience with student life at the university. There was a lecture about academic issues and other topics. Our attendance at Gaudeamus fairs included the 25th edition of the event in Bratislava in October, the 28th edition of the event in Brno in November, and an education fair in Nitra structured into days of lectures and consultations. The most popular is the Gaudeamus Fair in Brno, the oldest incarnation of the event attended by over 30,000 visitors every year.

The UCT Prague School of Business executed a project titled **MAM in Education!** under the Prague Growth Pole Operational Program (Introduction of modern activation methods into elementary school education with focus on developing student competencies for sustainable development, CZ.07.4.68/0.0/0.0/20\_079/0002072). The purpose of the project is to introduce into elementary education modern activation methods aimed at developing student competencies for the social pillar of sustainable development through the creation and execution of training programs for teachers. The project is executed in cooperation with the National Museum of Agriculture.

## **Reinforcement of the Professional Profile of Study Programs and Improvement of Its Prestige (MEYS SP2021+: 1D)**

**UCT Prague** and **ORLEN Unipetrol**, a strategic partner of UCT Prague, signed in March a **new cooperation agreement for the years 2022-2024**. The partnership consists of a financial grant and support for education. During the past 20 years, ORLEN Unipetrol's collaboration with UCT Prague underwent several changes. At present, it revolves around popularizing and raising awareness of chemistry, education, research, and development.

The most remarkable joint academic achievement was the founding in 2015 of the UCT – FME CTU – ORLEN Unipetrol University Center in Chempark, Litvínov, the only facility in the Czech Republic where a part of a public university is located directly inside a production complex. Currently, as many as 50 students are pursuing studies in the heart of the biggest chemical factory in the country. *"The specific settings of a chemical production plant allows students to test their theoretical knowledge in a real-world setting throughout their studies. They can take part in a number of research and educational activities the University Center offers and organizes. This allows them to focus on one of the many industrial issues in the preparation of their theses,"* explained **Tomáš Herink**, ORLEN Unipetrol Member of the Board of Directors in charge of research, development, and production.

Additionally, the partnership with ORLEN Unipetrol includes assistance for elementary and secondary schools through excursions to the production complex, lectures about current developments in the chemical industry, and other educational activities. Thanks to the ORLEN Unipetrol Foundation, secondary school students have access to scholarships and grant programs.

In conformity to UCT's strategic plan for 2021 and subsequent years, **two professionally oriented study programs** taught in the Czech language were accredited at the end of November as part of institutional accreditation for chemistry education at UCT Prague. The programs were created **in the framework of project executed** under Call A of the **NRP for Higher Education Institutions**. They include the **Industrial Chemistry bachelor's program** and the **Chemical Technology Engineer follow-up master's program**. The two programs will be delivered at the UCT – FME CTU – ORLEN Unipetrol University Center in Litvínov, starting in the 2023/2024 academic year. Thanks to the participation of industry specialists in the teaching process and the use of the Unipetrol Training Center, students will acquire expertise in the traditional branches of the chemical industry as well as knowledge of such new fields as decarbonization, hydrogen economy, circular economy, sustainability, and safety, thus improving their competitiveness on the labor market.

#### Memorandum of Cooperation with the Karlovy Vary Region

June saw the signature of a **memorandum of cooperation on research, development, education, and implementation of chemical industry applications in the Karlovy Vary Region**. The memorandum lays down the terms for mutual cooperation and support to facilitate the development of a partnership in the area of chemical production, the use of the results of research in practical applications, and joint action in the development of the chemical industry in the Karlovy Vary Region. The objective is to promote and deploy modern technologies conducive to the transformation of the region, to support research involving such technologies, and to promote technology transfers to industrial applications through specific projects. The partnership will have the form of joint and correlated activities. The memorandum was signed by Patrik Pizinger, Councilor for Regional Development and Project Management, on behalf of the Karlovy Vary Region, Rector Pavel Matějka for UCT Prague, David Najvar, Deputy Chairman of the Board of Directors, and Pavel Poč, Member of the Board of Directors, on behalf of SUAS GROUP, and Executive Director Milan Brejchal on behalf of Synthomer a.s. *"I consider signing this memorandum a fundamentally important act that commits us not only to pursuing this partnership, but also to providing widespread support for the chemical industry, which is, and will continue to be, of significant importance for our region, especially during the post-carbon transformation era. It is because the chemical industry contributes significantly to employment and competitiveness in the Karlovy Vary Region, particularly in such traditional fields as the manufacture of glass, porcelain, and ceramic products. For that reason, I consider it essential to ensure its further development, including research and innovation. I am convinced that we have the best partners for this purpose,"* said Patrik Pizinger.



## Sustainability and Circular Economy Study Program Undergoes Accreditation

In 2022, UCT's **Sustainability and Circular Economy follow-up master's program** underwent accreditation. *"We decided to establish a clear framework for this topic in order to train students who will have the key competencies to implement sustainability principles in both the private and public sectors. Among other benefits, the program is our contribution to the fight against greenwashing,"* explained Prof. Ing. Vladimír Kočí, Ph.D., MBA (Department of Sustainability and Product Ecology, FET), who acts as the guarantor of the newly accredited study program.

Sustainability and Circular Economy will include the following core subjects: product ecology and eco-design, circular economy, sustainability management, raw material security, industrial symbiosis, urban mining, material flow analysis, water footprint, and carbon footprint. The first students will graduate in 2025.



The official launch of the program took place in mid-October at the UCT Prague Department of Sustainability and Product Ecology on Jankovcova Street in Prague 7 with the participation of delegates from the Confederation of Industry, the Ministry of Environment, the Ministry of Industry and Trade, and the Ambassador of Finland to the Czech Republic.

The importance of the program to Czech industry was underscored by Ing. Bohuslav Čížek, Ph.D., MBA, Director of Economic Affairs, Confederation of Industry of the Czech Republic: *"On behalf of the corporate sector, I*

*want to express thanks and offer support for the creation of this program. It is aimed in the right direction, as evidenced by our recent survey in which 87% of the responding enterprises confirmed their dedication to sustainability, and 60% stated that sustainability is perceived as highly important for their competitiveness. A lack of workers possessing the necessary qualifications is an everyday problem already today. We have to look to the future to be able to respond to forthcoming needs and challenges, including those related to the green transformation of which circular economy is integral part."*

## Support for Building Infrastructure for Interactive Methods of Education and Integration of Students (MEYS SP2021+: 1E)

### Infrastructure Development Projects in the Framework of OP

The reported year saw the final part of two infrastructure projects executed under the RDE OP. As of the end of 2022, **three projects were in the five-year sustainability phase**. They include ***POSTUP***, a project executed under the RDE OP Call titled Support for the Development of the Academic Environment at Universities, which entered the third year of the sustainability phase in mid-May. With a budget of CZK 50.8 million, the project consists of upgrading the infrastructure and acquiring additional equipment, hardware, software, and electronic information resources in English for bachelor's and master's programs taught at UCT Prague. The ***INMODOS*** project executed under the RDE OP Call Research Infrastructure for Educational Purposes – Building and Modernization went through a larger part of the first year of the sustainability phase. Infrastructure worth CZK 199 million was procured as part of a project aimed at improving the infrastructure for new and modernized study programs in the framework of the ***MOST DSP*** project. At the end of 2022, a project titled ***Infrastructure for UCT Prague Priority*** advanced to the sustainability phase. The project has secured and improved material and technical resources for soft activities carried out under the complementary project ***UCT Prague Priority***, which focuses on bachelor's and master's programs and on improving strategic management and quality control systems at UCT Prague. The project has a budget of CZK 141.2 million.



The execution of the project ***Infrastructure for CHEMPRAX*** executed under the ERDF Call for Universities II as part of the RDE OP was completed toward the end of the reported year. Total eligible project expenses amounted to CZK 45.1 million. The objective was to improve the quality and effectiveness of education at UCT Prague with focus on real-world needs by providing modern laboratory equipment for new academic centers for bachelor's and master's study programs under the complementary project ***CHEMPRAX***, so as to better respond to current needs of the production sector. Following the administrative review of the final report, the project will advance to a five-year sustainability phase at the beginning of next year.

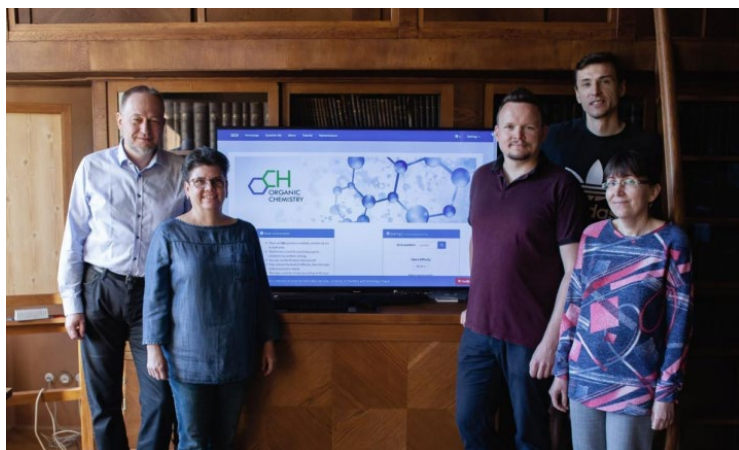


## 2 Improvement of the Quality and Relevance of Flexible Education Formats

### Increasing the Use of Distance Learning Methods in Full-Time Study Programmes (MEYS SP2021+: 2A)

#### Electronic Organic Chemistry Workbook Receives European Award

The Department of Organic Chemistry (FCT) has joined forces with the Center for Information Services to produce the **Electronic Organic Chemistry Workbook**. Its main authors include Prof. Ing. Radek Cibulka, Ph.D., Ing. Hana Kotoučová, Ph.D., Ing. Ondřej Kunderát, Ph.D., Ing. Markéta Rybáčková, Ph.D., (all from the Department of Organic Chemistry, FCT), and Ing. Martin Mastný (CIS). A number of master's and doctoral students took part in the process, mainly by testing assignments contained in the workbook. The original version of the workbook was programmed by Bedřich Košata.



The Electronic Organic Chemistry Workbook allows learning using the 'language of formulae', a prerequisite for understanding the principles of organic chemistry. Every assignment is not only presented in a graphic format, but it also requires the answer to be in the form of a chemical formula actively entered by the user. Responses are assessed

instantaneously. If the wrong answer is given, the workbook offers help. The system can be used either for learning or for testing the user's knowledge. Tests are configured by the user, including the number of tasks and the tested field, such as alkenes or electrophilic aromatic substitution. Apart from online testing, users can prepare their own custom workbooks by compiling selected assignments into PDF documents. Moreover, entering formulae into the computer acquaints users with one of the most common drawing programs incorporated in numerous databases (Marvin JS Editor). The electronic workbook is part of a portal that allows assignments to be entered by additional co-authors.

The Electronic Organic Chemistry Workbook was selected as the **best project in the Czech Republic in the International Higher Education Teacher Award** competition organized by the Profformance Consortium, which specializes in the development of teaching methods for higher education. The award was presented at the consortium's conference in Budapest last June.

## Electronic Textbooks for Economics

Nine new electronic textbooks and a methodological guide for teaching economics subjects were created in the framework of **Virtual Visiting Professors**, an Erasmus+ international project coordinated by the UTC's School of Business with the participation of Lithuanian and Croatian universities. The textbooks where the main authors were from UCT Prague included the following publications: **Managerial Decision-Making** (Doc. Ing. Lenka Švecová, Ph.D.), **Financial Markets and Risk Management** (Doc. Ing. Jan Vlachý, Ph.D.), **Principles of Marketing** (Ing. Petra Králová, Ph.D.). Specialists from the School of Business co-authored six additional publications where the principal authors were from partner organizations: **Financial Derivatives**, **Supply Chain Management**, **Pricing**, **Regional Economics**, **International Trade Operations**, and **International Logistics**. All of the textbooks are available for free use under Creative Commons License BY-SA 4.0.

## Development of the Portfolio and Innovation of Flexible Learning Methods, including Education Provided Online (MEYS SP2021+: 2B)

### Circular Economy Course

Last September marked the launch of the fifth edition of a **lifelong learning course** titled **Circular Economy** at the Faculty of Environmental Technology. The partners who took part in creating and delivering the course include SUEZ Využití zdrojů, a.s., Veolia Česká republika, a.s., and the WASTEN Cluster. Lasting from September to May of next year, the course comprises 11 daylong learning blocks and a two-day excursion. As many as 40 experienced experts and lecturers take part in the program. *"The purpose of the course is to acquire specific knowledge in a new, rapidly developing discipline, which is supported by the European Commission and which will affect a broad spectrum of activities in the forthcoming years, from the development and manufacture of products to recycling, waste management, marketing, environmental protection, and corporate social responsibility,"* explains Prof. Ing. Vladimír Kočí, Ph.D., MBA (Department of Sustainability and Product Ecology, FET), the course's expert guarantor. The course is intended for specialists in such areas as waste management, development management, environmental protection, CSR, and corporate ecology. Likewise, it is suitable for executives in key positions who are responsible for formulating strategies for corporate resilience and identifying new opportunities. Students who successfully complete the course receive a lifelong learning certificate.

### Sustainability Management Course

The second year of a **lifelong learning course** titled **Sustainability Management** began in September. The course objective is to acquaint students with current information and knowledge regarding sustainable development and ways of implementing the relevant topics into real-world applications. Presently, sustainable development is the fundamental principle and priority of the European Union's policies. The concept of the Sustainability Management course conforms to the 17 sustainable development goals (SDGs) defined by the UN for the upcoming 15 years.

Acquired knowledge will allow students to devise and integrate internal corporate strategies, values, and principles with a view to ensuring responsible conduct in all three pillars of sustainable development – environmental, social, and economic.



The Sustainability Management curriculum focuses on cross-sectional topics and policies that promote sustainable development as well as on issues concerning the individual SDGs. The course provides latest information and knowledge from

the sustainable development field and presents sustainable business in view of new opportunities and the various factors involved.

Designed for specialists in charge of strategic development, CRS, sustainability, environmental protection, marketing, and PR, the course is also suitable for individuals interested in integrating sustainability concepts in their personal lives and private activities.

The course is offered under the auspices of the Ministry of Environment, the Ministry of Industry and Trade, the Ministry of Labor and Social Affairs, and the Ministry of Foreign Affairs. Students who successfully complete the course receive a lifelong learning certificate.

The first year of the Sustainability Management inaugurated in September 2021 was completed by 30 students from leading corporations and organizations last May. After completing 11 daylong learning days and a two-day excursion, they prepared and successfully presented their final projects.

### Executive Education Academy

A lifelong learning course titled **Executive Education Academy** was offered from February to June 2022 for managers and top executives of medium and large enterprises. Consisting of 44 lessons and delivered in English in an in-house format, the course focused on improving knowledge of business, presenting and sharing the latest strategic management trends, and reinforcing managerial competencies. At the end of the course, the 10 participants received a certificate of completion.

### New Book – The Practice of Beer Brewing

June 2022 saw the launch of a book authored by **Ing. Tomáš Kinčl** (Department of Biotechnology, FFBT) titled **The Practice of Beer Brewing in Microbreweries and Beyond**. During the event, speeches were delivered by UCT Prague Rector prof. Dr. RNDr. Pavel Matějka, FFBT Dean Prof. Ing. Jan Masák, CSc., and Prof. Ing. Pavel Dostálek, CSc. (both from the Department of Biotechnology, FFBT).

The publication offers a practical view of beer brewing in microbreweries with focus on the pitfalls presented by real-world brewery operations. The book can be used as a beer brewing textbook, a basic guide for planning work in a brewery, and a manual for solving process-related problems in beer production. Centered on the beer brewing practice in the Czech Republic, the technologies described in the text mainly focus on the most popular Czech beer – the pale lager. Modern and specific kinds of beer are discussed marginally. Brewery professionals will appreciate chapters dedicated to the various essential aspects of beer production, such as distribution, applicable laws and regulations, and financial factors.

Ing. Tomáš Kinčl is an expert at UCT's Department of Biotechnology, where he is responsible for the operation of the university brewery. The brewery mainly serves for teaching students enrolled in specialized brewing and malting study programs. In addition, the facility offers courses for beer makers, conducts research, and produces beer for UCT's promotional purposes.

### Erasmus+ KA2 Projects: Cooperation with Organizations and Institutions

In 2022, the UCT Prague School of Business executed several Erasmus+ projects. April 2022 saw the completion of the **BioComp** multi-year Erasmus+ project (**Teaching Materials to Support the Missing Competences in Bio-Based Economy**) executed under the oversight of Ing. Marek Botek, Ph.D. The final assessment of the project was highly favorable. The main objective of the international consortium of participating institutions from Belgium, Bulgaria, Denmark, Germany, Greece, the Netherlands, and Romania was to identify, and sort according to their importance, competencies needed for working in selected areas of bioeconomics and to create supplementary teaching materials.

July 2022 saw the successful completion of **CORALL (Coaching-Oriented Online Resources for the Autonomous Learning of LSP)**, another Erasmus+ project directed by PhDr. Monika Hřebačková.

In the framework of Erasmus+ project **Learn to Change – Collaborative Digital Storytelling for Sustainable Change**, the School of Business organized **Learn to Change, an international symposium** held in Prague and attended by experts from Finland, Germany, Hungary, Ireland, the Netherlands, Poland, Portugal, Slovakia, and the Czech Republic.

Created in response to the pandemic period, the Erasmus+ project **Virtual Visiting Professors**, coordinated by Doc. Ing. Jan Vlachý, Ph.D., focuses on expanding the international dimension of university education and preparing courses for international students. Among other deliverables, the project has provided electronic learning aids for nine subjects taught in three countries (Croatia, Lithuania, and the Czech Republic).

Ing. Marek Botek, Ph.D. (School of Business) coordinates two additional Erasmus+ projects – **DigiDozent (The Way to a Universal Digital Lecturer and Organizer of Educational Activities)** and **Digital Wellbeing (Digital Wellbeing for Higher Education Lecturers)**. UCT Prague takes part in the projects as a partner.

### 3 Improving the Efficiency and Quality of Doctoral Studies

#### Enhancing the Quality, Openness, and Internationalization of Doctoral Studies (MEYS SP2021+: 3C)

##### RDE OP Funded Internal DSP Grants

December saw the completion of 14 grant projects financed during a term of 20 months with a subsidy granted to UCT Prague for the project **IGRA@UCTP** under RDE OP Call titled Improvement of the Quality of Internal Grant Schemes at Universities. Each of the grants was handled by a team composed of two to five doctoral students. The total budget amounted to CZK 34 million, of which CZK 26 million was allocated to student grants. IGRA@UCTP aims to implement systemic measures promoting student science competitions at UCT Prague, a key factor in academic programs focused on research. Student grant projects included participation in offered educational events and the conduct of a mandatory international activity to the minimum extent of 120 hours. One of the project's deliverables will be an updated definition of the parameters of the internal grant competition for doctoral students at UCT Prague carried out based on constructive suggestions produced by the assessment of the pilot round of the IGRA@UCTP internal grant competition. The project is planned to be completed in mid-2023.

##### Postgraduate Mentoring



UCT Prague offers mentoring to its students, employees, and graduates with the aim of assisting young scientists in their professional career. This development program allows participating mentees to expand their horizons and discover new opportunities through acquiring intimate knowledge in their field of interest. Guidance from an

experienced mentor provides inspiration, support, and valuable contacts. Owing to fine-tuned methodology, communication campaign, and the group of mentors, the offer of mentoring for doctoral students was met with above-average interest in 2022, and mentor-mentee pairs were formed within a record-short time. The initial stage was followed by training sessions, information workshops for mentors and mentees, and their individual meetings. A networking event was organized at the end of the year, where all participants in the mentoring program were able to get to know their counterparts. The pregraduate and postgraduate mentoring program is part of the portfolio of services offered by the UCT Prague Counselling and Career Center. Mentoring also received high praises during dissemination, where it was presented at several conferences. Participating universities appreciated the shared knowledge that allowed them to use the experience with mentoring at UCT Prague in their own projects.

## UCT Strengthens Its International Prestige in Doctoral Education

In accordance with its Strategic Plan, UCT Prague has since 2021 paid close attention to improving the conditions for doctoral students. As a member of Research Universities Association (RUA), UCT Prague places emphasis on the quality of its doctoral programs with a view to improving education delivered at this level. One of the objectives stated in the RUA Charter is "promoting the quality and international dimension of doctoral study programs". The dedication to the continuing improvement of quality and international competitiveness prompted UCT Prague in 2022 to join leading international associations that focus on the development of education at the doctoral level.

In June, **UCT Prague** joined **PRIDE**, an organization dedicated to the professional development of administrative staff and faculty members who support or deliver doctoral education in Europe and beyond. Following Charles University, UCT has become the association's second member from the Czech Republic.

In October, **UCT Prague** joined Palacký University Olomouc, University of Economics, Masaryk University, and Brno Technical University to become the Czech Republic's fifth official **member of the EUA Council for Doctoral Education** (EUA-CDE). EUA-CDE is an integral part of the European University Association and presently the largest European network that groups more than 260 universities and institutions specializing in doctoral education and research training in 36 countries. Its main task is to promote cooperation and transfer of good practices among its members and to distribute the outcomes of specialized training and research in Europe. EUA-CDE members are provided with numerous opportunities to debate issues of shared interest and take part in formulating the future of doctoral education in Europe.

## Prague-Weizmann School on Drug Discovery

The eight edition of the **Prague-Weizmann Summer School on Drug Discovery** was held on UCT's premises in Prague during the first week of September. Dedicated to **medicinal chemistry** and mainly intended for doctoral students and post-doctoral researchers, the event was organized by the **Department of Organic Chemistry** (FCT) in collaboration with IOCB, IOCB Tech, and the Israeli Weizmann Institute of Science. The summer school was launched in a ceremony attended by Minister of Education, Youth, and Sports Vladimír Balaš and Israeli Ambassador Anna Azari. Attended by close to 150 participants from all parts of the world, the event mainly consisted of lectures aimed at research and development of pharmaceuticals. The lecturers included scientists from the academic world, startup representatives, and experts from major pharmaceutical companies. As part of a program of extras, the participants visited the university brewery, took a sightseeing tour of Prague, and attended an organ concert in Karolinum.



## Improving Conditions for Successful Study, including Support for Reconciling Study and Family Life, and Strengthening the Social Integration of Doctoral Students (MEYS SP2021+: 3D)

### Definition of the Status of Doctoral Students

Relying on financial assistance from the Higher Education Institutions Strategic Management Support Programme, UCT Prague has established the **Committee for Doctoral Studies PGS2022+** to function as the university's advisory body. A list of key topics relating to doctoral education has been compiled, and staff nominated to the individual working groups assigned to specific topics. The committee will debate and recommend solutions to problems that are functional and attractive to doctoral students, help eliminate deficiencies identified by the MEP, and guarantee a superior quality of doctoral studies at UCT Prague in the future. The introductory meetings of some of the working groups took place before the end of the year.

At the **Doctoral School**, a Doctoral Office with the position of Doctoral Support was set up in the Research and Technology Transfer Office to harmonize transferable skills courses and provide ad hoc counselling to doctoral students. In the forthcoming period, the Doctoral School plans to offer Supervision courses for lecturers, is negotiating an Ethics course offered by Charles University, and intends to incorporate the Data Stewardship course into the doctoral curriculum at the beginning of the program.

A Survival Guide was created with the assistance of doctoral students, information seminars were held for individuals interested in doctoral studies and novice doctoral students, and reconstruction began of the website for doctoral students. Modifications were proposed in the doctoral grading system, the methodology and rating system was simplified, and the parameters of the new IS for grading doctoral students were designed.

### Programme Johannes Amos Comenius (P JAC)



In the fall, the Project Center began preparing a project application under a call issued under the P JAC titled Development of Infrastructure Resources for Doctoral Study Programs. The

subject of the call is securing material and infrastructure resources with the aim of improving the quality and international competitiveness of doctoral education. In the framework of a planned project titled **Equipment for Ph.D. Students at UCT Prague (Equip PhD)**, UCT Prague intends to replace, supplement, and acquire modern equipment for scientific laboratories used by doctoral students at its four faculties that provide education in accredited doctoral study programs. Expenditures will total CZK 175 million, and the project application will be completed and submitted to the subsidy provider at the beginning of 2023. If the subsidy is approved, the project will be executed during 2023 to 2025.

## 4 Strengthening Strategic Management and Effective Use of Capacities in Research and Development at Universities

### Finalize Complex Transformation of the Environment and Setting Up Processes in RDI at UCT Prague (MEYS SP2021: 4A)

#### Initiation Grant at UCT Prague

As is the tradition, UCT Prague issued an invitation to submit proposals for two-year **initiation grants supported from the Dagmar Procházková Fund**. The competition allows disbursing the maximum of two initiation grants. An initiation grant allows the grantee to create an independent research area at UCT Prague. To be eligible, the applicant must be a researcher with international experience who received a PhD in the past eight years, has not been formerly employed at UCT Prague for more than one year, and has not received an initiation grant in the past. In 2022, an initiation grant from the **Dagmar Procházková Fund** was awarded to **Ing. Jiří Tůma, Ph.D.** (Department of Organic Chemistry, FCT), who received CZK 2.4 million for a project titled *SALSA – Spiropyran Assisted Light-Stimulated Analysis of D-Amino Acids*.

#### Execution of Science and Research Projects in the Framework of EU Operational Programmes

In 2022, UCT Prague executed two projects under RDE OP calls aimed at researcher mobility. The **CHEMFELLS IV** project continued (International Researcher Mobility – MSCA-IF IV), supporting the arrival of nine foreign researchers and the stay of one expert abroad. Total eligible expenditures amounted to CZK 39 million. Likewise, **ChemJets2** (International Mobility of Researchers, Technical Staff, and Administrative Staff of Research Organizations) supported eight cases of incoming mobility with CZK 21.5 million in total eligible costs. The two projects will end in mid-2023.



The **NANOROBOTS** project completed its sixth year, receiving CZK 219.5 million in financial assistance under the RDE OP call Excellent Research Teams. Led by leading foreign scientist **Prof. RNDr. Martin Pumera, Ph.D.**, the international team of researchers has been provided with the necessary equipment and infrastructure to conduct top-level research into autonomous nanobots, a new nanotechnology class used primarily in medicine and environmental remediation. The research team works together with strategic foreign partners in carrying research that has produced a host of high-quality publications. The execution stage of the project was extended until mid-2023 to allow some of the project's deliverables to be completed, considering the negative effect of the COVID-19 pandemic in previous years.

Following a four-year period, UCT Prague concluded at the end of December 2022 three projects executed under an RDE OP call titled Pre-Application Research. **ORGBAT** (FCE), a project consisting of the development of energy accumulation technologies for both traditional and



renewable energy sources, was managed by UCT Prague, the subsidy beneficiary, in cooperation with University of Pardubice and Centrum organické chemie s.r.o. Eligible project expenditures totaled CZK 54.5 million; the share of UCT Prague amounted to CZK 26.9 million. UCT Prague acted as a partner in two other subsidized projects. They included **PaC-NG** (FCT), where the subsidy recipient was the Faculty of Mathematics and Physics, Charles University, and eligible expenditures of UCT Prague amounted to CZK 32.3 million. The goal of PaC-NG was to conduct basic research into advanced thin-film nanocatalysts with low precious metal content and their corrosion-resistant carriers for packs of hydrogen fuel cells with a polymer membrane. The grant beneficiary for **CEREBIT** (FFBT) is the Palacký University Olomouc. The project is aimed at the use and development of modern technologies for the preparation of recombinant high-affinity protein binders for the development of vaccines, immunotherapeutics, and theranostics. The total eligible costs of UCT Prague amount to CZK 6.4 million. Following the administrative closure of the execution stage, the projects will enter a five-year sustainability phase.

Twelve projects were executed in 2022 under the auspices of Technopark Kralupy, mostly financed under calls issued under the Entrepreneurship and Innovations for Competitiveness Operational Program (EIC OP) as part of the Application assistance program, where UCT Prague acts as a partner. Funding for Technopark Kralupy under these projects totals CZK 55.7 million.

#### UCT Prague Has a New Spinoff: MarbleMat Company



One of the first cases of transfer of research outcomes to a spinoff company established at UCT Prague involves a technology for encapsulating liquid oil globules used in food and pharmaceutical production. **MarbleMat s.r.o.** was founded by **Ing. Ondřej Rychecký** (Department of Chemical Engineering, FCE). In October 2022, the company and UCT Prague signed a licensing agreement on the transfer of patent rights. *"In this transaction, our establishment fulfills its goals in support for the transfer of know-how developed at the university into real-world*

*applications. Likewise, the project allows us to gain experience for future instances of technology commercialization through the establishment of spinoff companies,"* explained Rector Pavel Matějka. The technology at the core of MarbleMat's operations consists of the encapsulation of liquid oil globules for use in food and pharmaceutical production. The globule production machine was built in the framework of the TAČR Zéta project in cooperation with VÚTS Liberec. An alumnus of the doctoral program at the PARC, Ing. Rychecký, who invented the technology, works at UCT Prague in the research team headed by Prof. Ing. František Štěpánek, Ph.D., (Department of Chemical Engineering, FCE).

## Support to Research Excellence and Social Relevance (MEYS SP2021+: 4C)

### Delegation from Germany Visited UCT to Examine Hydrogen Technologies

In January, UCT Prague was visited by a **delegation from the German Federal Ministry for Education and Research and the German Embassy in Prague**. The visit focused on a **research program carried out by a team headed by Prof. Dr. Ing. Karel Bouzek** (Department of Inorganic Technology, FCT) **focused on hydrogen technologies**. Dr. Stefan Kaufmann, Innovation Commissioner for Green Hydrogen, and Dr. Alexander Puk, Head of Economy and Science Department at the German Embassy, joined UCT's representatives to debate ways of supporting the development of hydrogen technologies in the Czech Republic and cooperation with German partners. *"Dr. Kaufmann praised the scope and quality of our research activities in the field of hydrogen technologies as well as the intensity of international cooperation,"* described the visit Prof. Bouzek, who has a long record of working together with German experts.

### UCT Prague Patents a Robotic Line for Production of Personalized Pharmaceuticals



During the past four years, a research team headed by **Prof. Ing. František Štěpánek, Ph.D.**, (Department of Chemical Engineering, FCE) has pursued a project titled ***Robotic Nano-Pharmacist: Future Production Processes for Personalized Therapeutics*** funded with an **EXPRO grant** from the Czech Science Foundation. The project focuses on personalized medicine, where the objective is to prepare personalized pharmaceuticals for the specific needs of individual patients, including combinations of multiple active ingredients. One of the prerequisites for fulfilling this ambitious vision is designing and

building a robotic line for the production of personalized formulae. *"We have built a prototype of a dosing unit, we have completed blueprints for the entire line, and we applied for a Czech patent a month ago,"* reported Ing. Erik Sonntag (Department of Chemical Engineering, FCE), the person in charge of developing the line, who has recently received The PARC Award for excellent academic achievements in applied research and development of pharmaceuticals. *"The principal advantage of our solution is that it allows configuring the quantity of the active substance within an infinite range, in multiples of the smallest unit of the active substance, which is something no one has done before. Consequently, we will be able to produce medications for a specific patient who needs a specific quantity of an active substance in his or her prescription, and immediately afterward produce medication with a different content of the active ingredients for someone else. Naturally, the combined addictive substances must be from a predefined subset, but that is a common practice in most countries, for example in the case of cardiovascular diseases."* František Štěpánek's team has discussed its concept with Zentiva, a pharmaceutical company with which

it has a long-term partnership, and with the American FDA (Food and Drug Administration, the equivalent of the Czech State Institute for Drug Control). The response has been in all instances favorable as regards the concept of the project. Detailed feasibility studies, however, will need to be conducted to ensure production profitability.

### UCT Joins the National Institute of Virology and Bacteriology

Last June marked the launch of the new **National Institute of Virology and Bacteriology (NIVB)**. With a budget of close to CZK 1.5 billion, the institute was founded thanks to financial assistance from the EXCELES program administered under the National Recovery Plan. Administered by the Czech Ministry of Education, Youth, and Sports, the program aims to support large research projects in the field of medicine. The NIVB's primary task is to conduct basic and clinical research into viruses and pathogenic bacteria that cause diseases with major health and economic impacts. The institute's members are research teams from the Institute of



Organic Chemistry and Biochemistry CAS, Biology Center CAS, Institute of Microbiology CAS, Institute of Molecular Genetics CAS, Charles University, Palacký University Olomouc, Masaryk University, and UCT Prague. Headed by biochemistry expert RNDr. PhDr. Zdeněk Hostomský, CSc., the NIVB operates as a formal association of research teams from various parts of the Czech Republic that possess state-of-the-art equipment and resources.

UCT's representative on the NIVB's Coordination Board is **Prof. Dr. Ing. Michaela Rumlová** (Department of Biotechnology, FFBT). *"The institute's principal scientific endeavors will center on understanding processes and mechanisms through which viruses and pathogenic bacteria cause both known and novel communicable diseases, evade the immune system, and resist treatment. In the framework of NIVB's activities, we will therefore focus on describing interactions between viruses and bacteria and the host, understanding pathogenic molecular mechanisms, developing antiviral and antibacterial agents, and identifying target molecules for vaccination,"* described Professor Rumlová. Research will focus on SARS-CoV-2, HIV-1, viruses causing influenza, tick-borne encephalitis, Hepatitis B, enteroviruses, and such bacteria as Bordetella pertussis, Staphylococcus aureus, and Treponema pallidum. Thanks to the project, UCT will receive CZK 80 million in funding, a half of which is earmarked for investments into equipment.

In connection with the establishment of the NIVB, UCT Prague plans to create a new bachelor's program focused on the natural sciences in relation to virology. At the master's level, the FFBT already offers programs incorporating virology, specifically Biochemistry and Molecular Biology, Microbiology and Genetic Engineering, and Biotechnology of Pharmaceuticals.

## UCT Prague Joins the Czech Society for Applied Photocatalysis

In the middle of the year, **UCT Prague joined the Czech Society for Applied Photocatalysis (CSAP)**. UCT's membership in CSAP, an interest group of organizations specializing in the research and application of photocatalytic processes, will facilitate effective cooperation among researchers and industrial partners, particularly as regards the identification of new research topics. UCT's research team headed by **Prof. Dr. Ing. Josef Krýsa**, operating at the Department of Inorganic Technology (FCT) and Technopark Kralupy, offers standardized methods for measuring photocatalytic activity. Together with CSAP's certification program, the methodology will allow identifying ineffective or hazardous photocatalytic products and processes with a view to protecting end customers. Photocatalytic processes serve for eliminating pollutants from the environment, including air pollutants and stable substances in wastewater that are difficult to decompose. The method relies on the absorption of UV radiation on the surface of a photocatalyzer with the production of reactive radicals. This way, UV radiation allows breaking down organic substances to water and carbon dioxide without the need to add supplementary processing agents. Examples of the final product include various types of self-cleaning coating, which resist soiling and preserve its original appearance.

## Technopark Kralupy Visited by Czech Minister of Industry and Trade

In September, UCT Prague Technopark Kralupy hosted a meeting attended by Minister of Industry and Trade Jozef Síkela, Senator Jiří Drahoš, municipal officials from the Kralupy District, and representatives of the chemical industry – Jaroslav Pantůček, Chairman of the Board of Directors of MERO, David Pohl, Chairman of the Board of Directors of Synthos Kralupy, Ivan Souček, Director of the Chemical Industry Association, Mayor of Nelahozeves Jakub Brynda, Mayor of Kralupy nad Vltavou Marek Czechmann, and his deputy Vojtěch Pohl. UCT's delegates included Rector Pavel Matějka, Vice Rector for Strategy and Development Milan Pospíšil, and Technopark Kralupy of UCT Prague Director Milan Petrák. Minister Síkela was acquainted with applied research conducted by UCT Prague and Technopark Kralupy and its partnerships with the industrial sector. The discussion included energy prices and economic assistance for the Czech chemical industry. In addition, the minister inquired about research into the processing of lithium ore from Cínovec using the InCeMeTs unique patented technology developed by UCT Prague.

## Four UCT Prague Projects Receive JUNIOR STAR Grant

At the end of the year, the **Czech Science Foundation (GACR)** published the results of the **JUNIOR STAR grant** competition, a program intended for excellent up-and-coming scientists who have held the Ph.D. title for no more than eight years, have already published articles in prestigious international journals and possess significant international experience. Thanks to five-year projects offering as much as CZK 25 million, grantees have the opportunity to embark on a career as independent researchers or to set up their own research teams to infuse the Czech scientific community with new research topics. Project financing will be available starting in 2023. The 23 selected projects include **four from UCT Prague**, specifically *High-Strength Water-Resistant MOC Composites with Secondary Fillers: Contribution of 2D Carbon Nanomaterials and Their*



Combinations proposed by **Doc. Ing. Ondřej Jankovský, Ph.D.** (Department of Organic Chemistry, FCT), *Development of Actin Polymerization Inhibitors as Potential Migrastatics* proposed by **Mgr. et Mgr. Pavla Perlíková, Ph.D.** (Department of Organic Chemistry, FCT), *Development of Ab Initio Modelling for Disordered Molecular Semiconductors* proposed by **Ing. Ctirad Červinka, Ph.D.** (Department of Physical Chemistry, FCE), and *Custom Low-Dimensional Layered Materials beyond Graphene and Their Use in Basic Research into Heterogeneous Catalysts* proposed by **Ing. Martin Veselý, Ph.D.** (Department of Organic Technology, FCT).

### Successful Long-Term Cooperation

During a ribbon-cutting ceremony held in October 2022, a **brand-new dicyclopentadiene (DCPD) production unit** was unveiled in the presence of Polish Ambassador Mateusz Gniazdowski, top executives of ORLEN Unipetrol, delegates from PKN ORLEN, Mayor of Litvínov Kamila Bláhová, executives of INTECHA design company, and top UCT Prague officials. Isolated from light pyrolysis gasoline in four rectification columns, dicyclopentadiene is a hydrocarbon with numerous applications in electronics, medicine, pharmacology, and the automotive and construction industries. The new unit will produce as much as 25% of Europe's production of this sought-after substance. UCT's experts have performed simulations and detailed analyses of all components of the mixture, mainly to identify compounds causing undesirable product discoloration.

*"The unit is unique in the sense that we did not need to purchase a license because our researchers together with UCT's scientists have developed a proprietary technology,"* explained during the inaugural ceremony Tomasz Wiatrak, Chairman of the Board of Directors of ORLEN Unipetrol. UCT Prague Vice Rector for Strategy and Development **Prof. Ing. Milan Pospíšil, CSc.** added, *"UCT regards the successful completion of the project as a highly favorable achievement."* UCT's contribution to the development of the technology was made by the highly esteemed industrial chemistry expert **Prof. Ing. Josef Pašek, DrSc.**



Another person who contributed to the development of the DCPD unit, carrying a price tag of CZK 821 million, is **Doc. Ing. Tomáš Herink, Ph.D.**, Member of the Board of Directors of ORLEN Unipetrol and associate professor at UCT Prague. Professor Herink first undertook research into simulations in 2008, but was unable to successfully complete the process due to the financial crisis and other factors. After a hiatus of several years, the project was brought back on track. The construction began last fall, and the summer of 2022 saw the first tests of the unit.

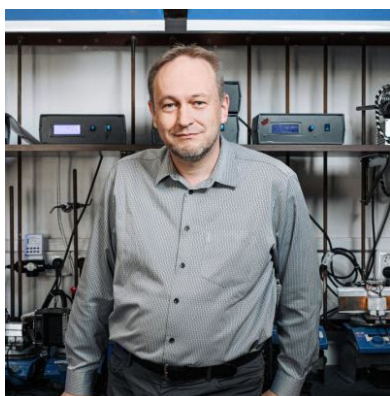
### Awards and Achievements in Research and Science

In February 2022, Major General Mgr. Jan Švejdar awarded the **Class I Medal of the Chief of Police** to **Prof. RNDr. Štěpán Urban, CSc.** (Department of Analytical Chemistry, FCE) for lasting,

active cooperation with the Czech Police in instrument-based examination of scent traces, the discovery of human scent signature molecules, the digitization of scent signatures, the creation of olphatronics as a forensic field, and extraordinary contribution to the development of forensic science.

At a plenary session of members of the Czech Academy of Agricultural Sciences (CAAS) held at the Assembly Hall of the Czech University of Life Sciences in Prague in May, **Prof. Ing. Kateřina Demnerová, CSc.** (Department of Biochemistry and Microbiology, FFBT) received the highest award – **Golden Medal** bestowed by the CAAS for extraordinary contribution to the development of research and science in the agricultural sector and for major contribution to the Czech Journal of Food Sciences published by the CAAS, where she has held the position of editor-in-chief for the past four years.

In June, **the French Embassy Science Awards** were presented on the embassy's premises in the Buquoy Palace in Prague. The awards are bestowed on an annual basis to young talented scientists in seven categories. The ceremony was chaired by the Ambassador of France to the Czech Republic and Jean-Marie Lehn, the winner of the Nobel Prize in Chemistry in 1987 who has initiated the event. UCT Prague representatives were successful in three of the categories. **Ing. Jaroslav Aubrecht, Ph.D.** (Department of Petroleum Technology and Alternative Fuels, FET) **placed first in the Environmental and Climate Research category** with a paper titled *Development of Cr-Free Environmentally-Friendly Hydrogenolysis Catalysts to Make Ester Hydrogenolysis Sustainable.* **Ing. Filip Antončík** (Department of Inorganic Chemistry, FCT) **placed second in the Chemistry category** owing to a paper titled *Next-Generation High-Temperature Superconductors*, and **Ing. Bronislav Jurásek, Ph.D.** (Department of Chemistry of Natural Compounds, FFBT) **placed third in the Pharmacology category** with a paper titled *Analogues and Metabolites of New Psychoactive Substances*. The winners received a financial prize from the sponsoring companies. In addition, the first two winners received a bursary from the French Embassy in the Czech Republic to complete a month-long internship at a French laboratory of their choice.



**Chemistry Europe** is an organization of 16 chemical societies from 15 European countries, representing over 75,000 chemists. It publishes a family of prestigious scientific journals, covering a broad range of chemistry disciplines. The organization nominates a **Fellows Class** on a bi-annual basis. In the reported year, 27 prominent scientists were appointed, including **Prof. Ing. Radek Cibulka, Ph.D.** (Department of Organic Chemistry, FCT). Inclusion in the Fellows Class is the highest award bestowed by Chemistry Europe to reward the contribution of exceptional European scientists to the organization and its journals. *"I value very highly the award and understand it as a reward for the entire team, all colleagues and students, and all my associates from many European countries,"* said Professor Cibulka. The Chemistry Europe Fellows

ceremony took place at a reception during the EuChemS Eighth Chemistry Congress held in Lisbon last August.

**Prof. Radek Cibulka, Ph.D.** (Department of Organic Chemistry, FCT) won the **Rudolf Lukeš Medal**, bestowed by the Czech Chemical Society in cooperation with the Experientia Foundation, for an excellent compilation of original papers in the field of organic chemistry published in the past five years in prestigious international journals. The medal was presented at a conference titled Advances in Organic, Bioorganic, and Pharmaceutical Chemistry held in Liblice in November. As every year, the winner was selected by an independent international board composed of the world's leading chemistry experts. *"I highly appreciate the medal. I am aware of the fierce competition in the field of organic chemistry in the Czech Republic as well as of the great Czech chemists who won the prize in the past. Likewise, the medal is valuable because of Rudolf Lukeš himself, a person who has made immense contribution to the establishment of the Department of Organic Chemistry at UCT Prague, the institution where I conduct research. No less importantly, I am happy for all my students and colleagues because scientific work is a joint effort, and our achievements could never be accomplished without the contribution of every single one of them,"* said Professor Cibulka.

In October, the Neuron Endowment Fund awarded the Neuron Prize for a science transfer project concentrated on energy storage. Neuron's Administration and Science Board rewarded the best application of basic research by awarding the **2022 Neuron Prize for bridging science and business to Pinflow Energy Storage**, a company specializing in energy storage in redox flow batteries. The scientific know-how originates from the cooperation of UCT Prague and the University of West Bohemia, Pilsen, which has resulted in the establishment of a commercial undertaking. From the four Pinflow Energy Storage awardees, **Prof. Dr. Ing. Juraj Kosek** and **Ing. Petr Mazúr, Ph.D.** are currently on the UCT faculty, both at the Department of Chemical Engineering, FCE. The remaining two, Ing. Jaromír Pocedič, Ph.D., and Ing. Jiří Vrána, Ph.D., are the university's alumni.

At a ceremony held in Brussels in October, **the H2020 Newly** project (Next Generation Water Electrolyzer) received the **Best Innovation Award** as part of the **2022 Clean Hydrogen Awards** presented in the framework of the European Hydrogen Week. Newly is a joint venture of the Department of Inorganic Technology (FCT) and partners from four countries in various parts of the world. The project is aimed at the development and testing of new components for water electrolyzers. Thanks to innovations in such areas as membranes, electrodes, and the overall system concept, a highly efficient and competitive prototype will be built by the year 2023. The project has the potential to provide solutions to hydrogen energy storage in Europe and elsewhere in the world, thus contributing to the transition to ecological and sustainable energy systems. Accordingly, the venture is co-financed by European Union grants.

In mid-October 2022, a project titled **H2Ospodař** was rewarded in **Hello Země**, a program organized by Hello bank! Among 10 nominated **sustainability ventures**, the **project placed second** in a vote held among the bank's employees and clients, and received a CZK 300,000 financial prize for further development. Symbolic cheques were presented to the three winning

projects of the Hello Země program at the 2022 SDG Awards Ceremony. Hello bank! is a member of the Association of Corporate Social Responsibility (A-CSR) and a partner to the SDG Awards organized by A-CSR. With A-CSR's consent, the bank nominated for the Hello Země program 15 projects that had already registered for the 2022 SDG Awards. The H2Ospodař project is an initiative of a team of young researchers, mostly UCT Prague graduates, who are dedicated to issues concerning drinking water management. Accordingly, they decided to popularize water by presenting various water-related issues to the general public with a view to fostering appreciation for this valuable resource. The project offers diverse educational activities, such as seminars, workshops, lectures, interactive exhibitions, and counselling regarding drinking water management.

On the occasion of the Evening with Czech Chemistry, an annual event held in October, the Czech Chemical Industry Association awarded the title **2022 Personality of Czech Chemistry** to **Prof. Ing. Mojmír Rychtera, CSc.** (Department of Biotechnology, FFBT). Professor Rychtera is an experienced academic and researcher at the Department of Biotechnology, formerly known as the Department of Fermentation Chemistry and Bioengineering, where he has worked since 1960. His contribution has been instrumental in establishing Bioengineering as a field of study at UCT Prague, and his profound expertise in this field continues to benefit students and other faculty members alike. His scientific career has been focused on the development and management of biotechnology processes for domestic and foreign industrial clients either directly or under international projects executed in close cooperation with partners from other countries. Professor Rychtera has authored no fewer than 200 scientific publications, eight chapters in various treatises, and several translations of technical literature. He has delivered no fewer than 80 lectures at science symposiums. Apart from research, he has supervised dozens of theses at each of the three levels of tertiary education. He has prepared and personally taught several subjects at all university levels, focusing on bioengineering and industrial biotechnologies, both in Czech and in English. During several months in 1993, Professor Rychtera lectured at the University of Birmingham as a visiting professor. From 1992 to 1998, he served as Vice Dean of the Faculty of Food and Biochemical Technology, where he was in charge of international affairs and communication with the industrial sector.

Every year, Czech Mind (*Česká hlava*) and the Office of the Government award the Czech Mind Prizes, the most prestigious award bestowed for science and research in the Czech Republic. The **Czech Mind Prizes for 2022** were presented in Prague in December. The awardees were selected from dozens of nominated researchers by a jury composed of leading Czech scientists, including Rector Emeritus of University of Economics Richard Hindls, psychiatrist Cyril Höschl, neurosurgeon Vladimír Beneš, and others. The **Veolia Doctorandus Prize for Natural Sciences** went to **Ing. Alžběta Dostálková, Ph.D.** (Department of Biotechnology, FFBT). The prize is awarded for an innovative approach, outstanding achievement, expert or scientific work of a doctoral student, particularly in mathematics, physics, chemistry, biology, and medicine. Ing. Alžběta Dostálková, Ph.D. received the prize for research into interactions resulting in the





assembly of retrovirus particles. Her work focuses on retroviruses, the best known example of which is the HIV-1 virus causing AIDS. Even though numerous antiviral drugs have been approved for HIV-1, efforts continue to find new targets of antiretroviral therapy in consideration of growing resistance. One of such targets are assemblies of retroviral particles and the stability of the inner protein capsule that protects genetic information.

In December, CzechInno announced the winner of the 12th edition of the Visionaries competition, which rewards Czech businesses, entrepreneurs, research organizations, and individual authors of innovative products, processes, and services. An important facet of CzechInno's activities is providing information on innovations to the general public and ensuring that innovative solutions find their way into real-world applications. The 2022 Visionary title went to six awardees. In addition, the jury handed honorary mentions for 11 innovative projects. **The awardees in the 2022 Visionary contest** included **Ing. Milan Petrák**, Director of Technopark Kralupy of UCT Prague, **who was rewarded for lifelong contribution to the transfer of chemistry research to industrial practice**, and Prof. Martin Fusek, CEO of IOCB TECH, s.r.o., who received an award for lifelong contribution to support for technology transfer. Prof. Fusek regularly delivers lectures about technology transfer for doctoral students at UCT Prague.

#### Czech-UNDP Partnership for the SDGs

The UCT Prague School of Business has been awarded a Czech-UNDP Partnership Modality Challenge Fund project titled **Biogas for Sustainable Livelihoods and Green Youth Entrepreneurship**. The purpose of the project is to build a functional business model for biogas production in Zambia, including the construction of the facility. Apart from significant economic impact and providing employment opportunities for young individuals and women, the project will help alleviate deforestation. Executed in cooperation with a local partner, Hysper Enterprise, the project is funded under the UN Development Program (UNDP) with financial assistance from the Czech Ministry of Foreign Affairs. The main grantee is **Ing. Patrick Francis Kapila, Ph.D.** (School of Business).

## Development of International Cooperation in RDI (MEYS SP2021+: 4D)

#### International Scientific Research Grants

In 2022, a total of 34 international science and research projects funded by foreign organizations were executed at UCT Prague. That included 18 projects executed under the Horizon 2020 program, three projects carried out under the Research Fund for Coal and Steel (RFCS) program, two projects carried out under a collaborative program titled 2014-2020 Czech Republic – Free State of Saxony, and two projects financed by Norwegian funds, and seven projects funded by other international providers.

### Professor Friess Collaborates with the MIT

Relying on funding from the MIT-Czech Republic Seed Fund, **Prof. Ing. Karel Friess, Ph.D.** (Department of Physical Chemistry, FCE) and his research team began in May 2022 cooperation with a team conducting research into functional inorganic and organic materials at the Massachusetts Institute of Technology (MIT) as part of a project titled ***Clean Energy Applications with Mixed-Matrix Membranes of 2D MOFs***. The project consists of developing multipurpose 2D structured MOFs (metal-organic frameworks) of nanomaterials for applications in energy storage and gas separation. In addition to scientific cooperation, the project includes an exchange program for students from both institutions. The venture is intended to serve as a first step for establishing long-term partnerships of research teams from the MIT and UCT Prague. With a budget of USD 23,250, the project will be launched in January 2024 under the administration of the foreign partner. The MIT-Czech Republic Seed Fund is a new joint venture of MISTI (MIT International Science and Technology Initiatives), the Czech Academy of Sciences, and the Institute of Organic Chemistry and Biochemistry of the Czech Academy of Sciences. The fund provides financing for exchanges between MIT students and faculty members, CAS scientists, and researchers from Czech universities.

### UCT Partners with the PARC International Project

May 2022 marked the launch of PARC (*European Partnership for the Assessment of Risks from Chemicals*), a project funded under Horizon Europe, a new framework program for research and innovation (2021–2027). The multinational European project, executed in collaboration with UCT Prague experts, is closely related to the European Green Deal, which aims to significantly reduce the impact of chemicals on human health and the environment. The project includes nearly 200 organizations from 28 countries and three bodies of the European Union. UCT Prague researchers from the **Department of Food Analysis and Nutrition (FFBT)** will be part of a team focused on the development of new approaches to targeted and non-targeted screening of harmful substances in the environment and in biological materials. They will take part in activities aimed at the development of new analytical methods and their use in biological and environmental monitoring of chemicals whose negative impact on human health raises concerns among scientists. *"In the framework of the Monitoring and Exposure working bundle, we will put into use our previous experience from the HBM4EU project (European Human Biomonitoring Initiative), and we will focus on ensuring the quality and comparability of data collected in biomonitoring studies. In addition, we will take part in environmental and multi-source monitoring of per- and polyfluoroalkyl substances (PFAS) and substances interfering with the endocrine system in various parts of the environment, particularly water, food, and air,"* examined **Prof. Ing. Jana Pulkrabová, Ph.D.**, Director of the Department of Food Analysis and Nutrition.

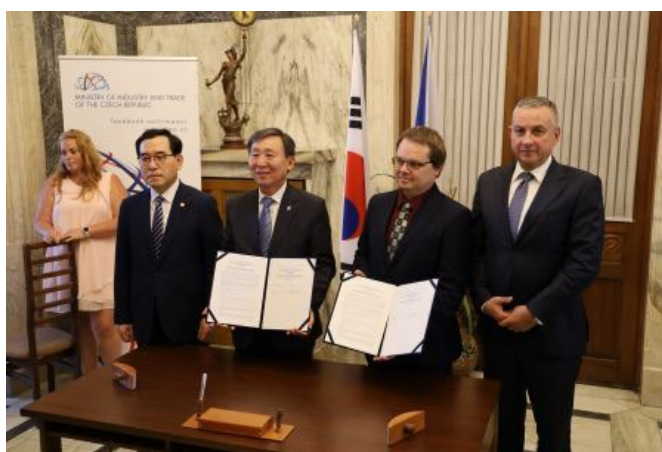
### General Assembly of Hydrogen Europe Research

In May, the **General Assembly of Hydrogen Europe Research** was held on the premises of UCT Prague. This important organization brings together European research institutions active in the research and development of hydrogen technologies. Moreover, together with the European

Union and Hydrogen Europe Industry, Hydrogen Europe Research is one of three organizations forming the Clean Hydrogen Partnership, a public-private partnership responsible for formulating the European strategy for research, development, and demonstration activities in the area of hydrogen technologies, including the funding of selected projects using subsidies at the EU level. *"The event was already the third General Assembly of this organization held in Prague and organized by UCT Prague. Apart from Brussels, the General Assembly has been held in no European city more often than in Prague,"* said **Prof. Dr. Ing. Karel Bouzek** (Department of Inorganic Technology, FCT), the person under whose supervision the event took place. The General Assembly was preceded by a meeting of the organization's board of directors and a working meeting with government officials, delegates from selected Czech regions, and representatives from major industrial enterprises and research centers specializing in hydrogen technologies.

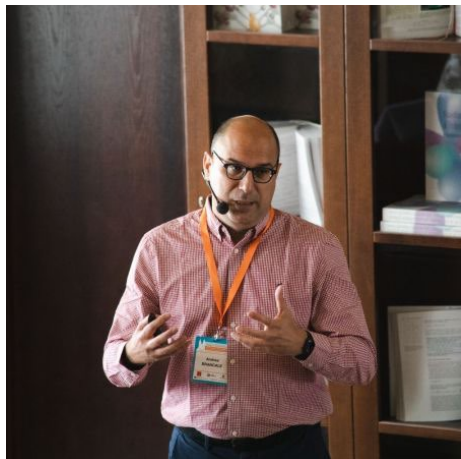
### Czech-Korean Cooperation on Hydrogen Mobility

In June 2022, the **Czech Hydrogen Technology Platform (HYTEP)** signed a **memorandum of cooperation with H2Korea**, an association responsible for the development of hydrogen economy in Korea. The signing ceremony was attended by Czech Minister of Industry and Trade Jozef Síkela and Korean Minister of Industry Chang Yang Lee. The Czech representative who signed the memorandum was Deputy Chairman of the Board of Directors of



HYTEP, **Doc. Ing. Martin Paidar, PhD.** (Department of Inorganic Technology, FCT). On the Korean side, the parties to the memorandum include Hyundai Motor Company and Hyundai Glovis. The cooperation established under the memorandum is open to other companies. The objective of the document is to promote the development of hydrogen mobility in the Czech Republic through demonstration pilot projects concentrated on the manufacture of equipment and vehicles on the one hand, and their operation on Czech roads on the other hand. Furthermore, cooperation on the part of Czech companies will allow hydrogen filling stations to be built and related operations organized. The memorandum's main goal is to promote hydrogen mobility, trucks and buses in particular. *"The memorandum is the first step toward closer cooperation between Czech and Korean corporations in the field of hydrogen mobility and related infrastructure. Hydrogen is the fuel of emission-free transportation. Its undisputable benefits, particularly in the segment of long-distance freight and public transport, include a greater driving range and rapid fill-up that takes no more than 20 minutes in the case of trucks, which is considerably less compared to other technologies,"* mentioned Aleš Doucek, Chairman of the Board of Directors of HYTEP.

## Medicinal Chemistry Research Team Established at UCT



In September, UCT Prague was joined by **Andrea Brancale, Ph.D.** (Department of Organic Chemistry, FCT) from the Cardiff University, a widely recognized international expert who was selected as **Medicinal Chemistry Chair** and tasked with setting up a new excellent research team with a view to conducting state-of-the-art research in the field of medicinal chemistry. The new, prestigious position was established for an initial term of five years, funded by IOCB Tech in cooperation with the Institute of Organic Chemistry and Biochemistry CAS (IOCB). In April, the Scientific Board approved the appointment of Andrea Brancale, Ph.D. as an

associate professor in the field of Chemistry. Professor Brancale will head the Department of Medicinal Chemistry established by UCT Prague in connection with his arrival. The department will use laboratories recently built by UCT Prague for new cutting-edge research teams. Professor Brancale has an extensive portfolio of international partnerships. His research focuses on computer-based design of pharmaceuticals and synthesis of bioactive molecules, particularly substances with anticancer and antiviral properties. As part of pursuing cooperation in the Czech and pan-European context, he plans to promote the use of pharmaceuticals in other therapeutic fields. In this regard, Brancale is already preparing projects through international consortiums, such as an NIH grant, as well as in the Czech Republic, such as involvement in the Programme Johannes Amos Comenius under a call titled Excellent Research.

*"I believe that the rapid application of the outcome of basic research in clinical practice hinges on cooperation among chemists, pharmacologists, biologists, structural biologists, and medical specialists. It is especially important to allow experts with diverse specializations to work together from the initial stages of projects,"* explained Prof. Brancale, adding that creating such a research environment is one of the objectives of his work at UCT Prague. Furthermore, Prof. Brancale will take part in teaching, particularly in the framework of the Pharmaceuticals and Biomaterials doctoral study program for which he has created the concept for a new subject titled Drug Design and Discovery. Likewise, he will teach students at the bachelor's and master's levels as part of the subjects Chemistry and Synthesis and Production of Pharmaceuticals. No less important will be his role as a mentor for junior medicinal chemistry teams at UCT Prague. As a member of the UCT faculty, Brancale delivered a presentation at the International Summer School of Medicinal Chemistry in September, an annual event organized by UCT Prague in cooperation with the IOCB and the Israeli Weizmann Institute of Science.

## RAFA 2022

UCT Prague is the main organizer of the **International Symposium on Recent Advances in Food Analysis (RAFA)**, a prestigious event held on a bi-annual basis in cooperation with Wageningen Food Safety Research, a department of Wageningen University & Research (Netherlands). September saw the 10th edition of the conference – **RAFA 2022**. UCT Prague was represented by

**Prof. Ing. Jana Hajšlová, CSc.** (Department of Food Analysis and Nutrition, FFBT) who chaired the event.

Leading experts, including delegates from the European Commission's institutions, presented the latest trends in research into analytical and bioanalytical techniques, and demonstrated their applications in the framework of strategies developed for monitoring the quality, safety, and authenticity of foods and natural products. RAFA 2022 was attended by 520 scientists, academics, industry representatives, supervisory bodies, and public and private laboratories from 40 countries, who participated in 93 lectures and viewed 355 poster presentations delivered as part of the program. The accompanying exhibition and seminars featured presentations of 26 leading global corporations that introduced attendees to the latest trends in modern technologies for instruments and devices used in food analysis. In addition, RAFA 2022 offered various presentation opportunities to young researchers in the lecture and poster presentation formats, the best of which were rewarded.

### ICPG 2022

The **Department of Carbohydrates and Cereals** (FFBT) at UCT Prague is the main organizer of the **International Conference on Polysaccharide – Glycoscience (ICPG)**, an annual event organized in collaboration with the Czech Chemical Society. The 18th edition of the conference was held at Novotného Lávk in Prague last November. Experts from various parts of the world presented the latest trends in research into carbohydrates and polysaccharides, including their derivatives. As every year, young researchers were rewarded for their lectures and poster presentations, and sponsoring corporations presented their business operations.

## Popularization of Natural Sciences and Outcomes of Creative Activities at UCT Prague (MEYS SP2021+: Other Priority Goals II. 10)

### Priorities of Czech Presidency at VědaFest (ScienceFest)

In June, more than 15,000 guests visited the Dejvice Campus in Prague where an event titled **Priorities of Czech Presidency** was held together with the 10th edition of the annual **VědaFest 2022** festival. Thanks to financial assistance from the Czech Ministry of Education, Youth, and Sports disbursed for a centralized development project titled *Communication of the Priorities and Topics of Czech Presidency of the Council of Europe with Focus on Universities and Higher Education*, Charles University, Czech Technical University, University of Chemistry and Technology, Czech University of Life Sciences, Academy of Performing Arts, and Academy of Arts, Architecture, and Design prepared exhibitions that used a format accessible to the general public to present selected topics of the Czech Presidency of the Council of Europe. The program included a ceremony in which Véronique Debord-Lazaro, Scientific and Higher Education Attaché at the French Embassy in the Czech Republic, symbolically handed over the presidency in the field of higher education to Prof. Ing. Milan Pospíšil, CSc., Chairman of the Council of Higher Education Institutions.



The 10th edition of VědaFest aimed to show visitors that science is a ubiquitous, integral part of their daily activities, where they routinely use its fruits without being aware of it. Outdoor stands allowed visiting students from all educational levels and members of the general public to try experiments, interactive games, quizzes aimed at digitization, cybersecurity, energy security, climate change, and freedoms and responsibility of the media. The Office of the Government of the Czech Republic staged an exhibition titled Europe as a Task. More than 300 guests attended science popularization lectures delivered by leading experts at the Czech Technical University, focusing on energy sector soft skills, cyberspace crime, the power of disinformation, and climate change in relation to water retention in the landscape.

### Researchers' Night

As every year, the **2022 Researchers' Night** took place at the end of September. Its motto was With All The Senses. Held on UCT's premises in Prague, the event was attended by 2,596 visitors who had the opportunity to experience science with all of their senses. The program was prepared by 140 enthusiastic researchers from UCT Prague, secondary-school students from the Chemistry Circle, Fénix Summer Camp, and Běstvinka Summer Training Camp, participating organizations, and booster club members. People visiting the Researchers' Night at UCT Prague were treated to 71 program items in Czech, 28 program items in English, 12 specialized guided checkpoints, seven workshops, five online programs available until the end of the year, and three sensory tours through the UCT Prague labyrinth. The 2022 edition of the Researchers' Night was organized with financial assistance disbursed by the Ministry of Education, Youth, and Sports to public universities under a subsidy for centralized development projects.

## 5 Development of Resources for Strategic Management in Higher Education

### Strengthening Strategic Management at UCT Prague (MEYS SP2021+: 5B)

#### UCT Prague in University Rankings

The Times Higher Education Impact Rankings (**THE Impact Rankings**) are global performance tables that assess universities based on their activities in the framework of the 17 sustainable development goals defined by the UN (SDGs). The rankings rely on carefully calibrated indicators to provide a comprehensive and balanced comparison across four broad areas: research, stewardship, outreach, and teaching. The 2022 Impact Rankings were the fourth edition published by the Times Higher Education Journal, an endeavor in which UCT Prague has actively participated since its launch. Overall, THE Impact Rankings 2022 include 1,406 universities from 106 countries. Unlike other rankings that assess universities based on performance in research and education, THE Impact Rankings focus on the third role of higher education establishments.

While UCT Prague is engaged in multiple SDGs, our best rated are SDG 13 Climate Action and SDG 14 Life Below Water in the 301–400 range, SDG 15 Life on Land in the 401+ range, and SDG 5 Gender Equality in the 601–800 range. Reflecting challenges of sustainable development in academic activities is an integral part of the vision of UCT Prague (See Part C, Chapter 10 c) for additional information).

### UCT Prague Celebrates 70th Anniversary of Independent Existence

Every year, meetings with the university's governing bodies, strengthening the shared identity of staff, students, and alumni, and pursuing UCT's vision and development plans are reflected in various formal and informal events where communication flows in both directions. Selected events were organized with the aid of a grant received under the Program of Support for Strategic Management of Higher Education Institutions for the Year 2022. One of such occasions was the **celebration of the 70th anniversary of the existence of UCT Prague as an independent organization**. Several events were held to celebrate the anniversary; the two most important ones took place on 23 September 2022. A ceremony in the Strahov Monastery saw the presentation of **honorary doctorates**, an award only bestowed in exceptional cases on prominent representatives of the Czech and European scientific community. *"Celebrations of important anniversaries present a suitable occasion for rewarding luminary personalities. In the case of the three honorary doctorates and the Emil Votoček Medals, this applies to exceptional members of the Czech and European scientific community who have made a major contribution to the good reputation of UCT Prague. They will continue to be our associates, and we wish to boost their enthusiasm for the further development of the European research space,"* said UCT Prague Rector Pavel Matějka. The **Doctor Honoris Causa** title was presented by the Rector of UCT Prague to **Prof. RNDr. Eva Zažímalová, CSc.**, President of the Czech Academy of Sciences, to **Prof. Dr. Dr. h.c. Peter H. Seeberger**, Managing Director of the Max Planck Institute for Colloids and Interfaces, and to **RNDr. PhDr. Zdeněk Hostomský, CSc.**, longtime Director of the Institute of Organic Chemistry and Biochemistry CAS and current Director of the National Institute of Virology and Bacteriology. The Rector presented the **Emil Votoček Medal** to **Prof. Ing. Aleš Procházka, CSc.** (Department of Mathematics, Informatics and Cybernetics, FCE) and to **Prof. Martin Hof, Dr. DSc.** (J. Heyrovský Institute of Physical Chemistry CAS). In the afternoon, the celebrations continued with the **KampusFest** culture festival held in Dejvice, which consisted of concerts and performances staged by student associations, including the University Orchestra and Choir. In addition, a tour of the university and two chemistry shows were organized for members of the general public. The celebrations included the unveiling of **a new publication dedicated to the history of UCT Prague** titled **Focused on Chemistry**. The book was launched at a ceremony held in the NTK Gallery. The events were promoted by means of presentation materials, posts on the university's social media, and information published in newsletters distributed by the Alumni Club.

## Support for Cooperation and Experience Sharing among Universities and Development of Resources for Strategic Management at the National Level (MEYS SP2021+: 5C)

### Participation in Projects under the Centralized Development Program

Every year, UCT Prague takes part in the Centralized Development Program (CDP) for universities administered by the Ministry of Education, Youth, and Sports to promote efforts aimed at sharing resources and forming university networks in the Czech Republic. In 2022, UCT Prague took part in 12 projects executed under the CDP, focusing on the priority topics laid down in the MEYS strategic objectives for higher education institutions. All of the 12 projects were executed jointly by at least 18 universities under the supervision of one of them acting as the coordinator. UCT Prague coordinated a project titled ***Communication of the Priorities and Topics of the Czech Presidency of the Council of Europe with Focus on Universities and Higher Education*** executed in cooperation with 19 other counterparts. The greatest benefit of centralized development projects is the opportunity they provide for meetings of representatives of participating universities, their direct collaboration in fulfilling project targets, sharing produced deliverables, and exchanging good practices. In accordance with MEYS requirements, the final reports for executed centralized development projects are published on the websites of participating universities.

## Strengthening Strategic Management of Human Resources at UCT Prague (MEYS SP2021+: 5D)

### Appointment of New UCT Prague Professors

In June and November, Czech President Miloš Zeman appointed five new UCT Prague professors. **Prof. Ing. Jan Merna, Ph.D.** (Department of Polymers, FCT) was appointed professor in the field of macromolecular chemistry, **Prof. Ing. Pavel Novák, Ph.D.** (Department of Metals and Corrosion Engineering, FCT) was appointed professor in the field of metallurgy, and **Prof. Ing. Vojtěch Spiwok, Ph.D.** (Department of Biochemistry and Microbiology, FFBT) was appointed professor in the field of biochemistry.

At the recommendation of the Scientific Board of UCT Prague, **Prof. Ing. Roman Kubec, Ph.D.** was appointed professor in the field of chemistry and analysis of foodstuffs. Prof. Kubec is an FFBT graduate presently serving at the University of South Bohemia.

At the recommendation of the Scientific Board of the University of Pardubice, **Prof. Dr. Ing. Martin Kubal** (Department of Environmental Chemistry, FET) was appointed professor in the field of environmental chemistry and engineering, and **Prof. Ing. Zdeňka Kolská, Ph.D.** (Department of Solid State Engineering, FCT) was appointed professor in the field of surface engineering.



## Rector's Employee Awards

The Julie Hamáčková Award was established at UCT Prague in 2015 in the framework of the 7.RP EU TRIGGER project. The purpose of the award is to promote the incorporation of gender-related aspects in research and academic work and activities beneficial for the development of educational establishments through support for equal opportunities. The award is bestowed every year in three categories. The laureates are selected by the jury from nominated candidates. The awards were presented in December by UCT Prague Rector Prof. Dr. RNDr. Pavel Matějka at a ceremony held during a meeting of the university's top officials. The 2022 Julie Hamáčková Award in Category a) – Public Reward for Extraordinary Contribution by Female UCT Prague Employee to the Advance of Science, Research, Pedagogy, and Innovation, including Work in the Academic Sector was bestowed on **Ing. Petra Ménová, Ph.D.** (Department of Organic Chemistry, FCT). The 2022 Julie Hamáčková Award in Category b) – Public Reward for Extraordinary Contribution by Male and Female UCT Prague Employee in the Promotion of Equal Opportunities in Workplace Relations and Research at UCT Prague was bestowed on **Ing. Hana Štěpánková** (Project Center, Rector's Office). In the category of student achievements, the competition rewards the incorporation of gender issues in student activities, such as theses and student science conferences.

The Rector's Awards have a long tradition at UCT Prague. The Rector's Award for Extraordinary Achievements in Research and Development was established in 2005. In 2013, additional Rector's Awards were introduced to reward major contributions to the development and promotion of UCT Prague. UCT Prague Rector Prof. Dr. RNDr. Pavel Matějka presented the **2022 Rector's Awards** on the occasion of the annual Christmas Advent Concert in Bethlehem Chapel in December. The Rector's Award for Excellent Teaching at UCT Prague was bestowed on **Doc. Ing. Kateřina Rubešová, Ph.D.** (Department of Inorganic Chemistry, FCT), the Rector's Award for Extraordinary Achievements in Research and Effective Promotion of Science was bestowed on **Prof. Ing. Jan Bartáček, Ph.D.** (Department of Water Technology and Environmental Engineering, FET), and the Rector's Award for Extraordinary Independent Creative Achievement went to doctoral student **Ing. Soňa Hříbalová** (Department of Glass and Ceramics, FCT). The Rector's Award for Extraordinary Contribution to the Administrative Development of UCT Prague was bestowed on **Mgr. Petra Kinzlová**. The Rector's Award for Extraordinary Contribution to the Architectural Development of UCT Prague was bestowed on **Ing. arch. Petr Šichtanc** (Department of Operation and Technical Services, Rector's Office). **PhDr. Bc. Věra Dvořáčková, Ph.D.** (Department of Pedagogy and Humanities, Department of School-Wide Education), **RNDr. Ivana Lorencová**, and **Mgr. Dana Husníková** (Center for Information Services, Rector's Office) received the Rector's Award for extraordinary work on a publication for the 70th anniversary of the independent existence of UCT Prague titled *Focused on Chemistry: Chapters from the History of the University of Chemistry and Technology, Prague*.

## 6 Reduction of Administrative Burden on University Employees to Facilitate Their Full Dedication to Their Mission

### Simplifying the Transfer of Information to the Public Administration and Improving the Availability and Circulation of Information through the Ongoing Digitization of Agendas (MEYS SP2021+: 6A)

#### Electronic Approval of Documents in the Staff Information System

In 2022, the functions of the internal staff information system were enhanced by the addition of electronic submission and approval of selected documents pertaining to staff and payroll administration. Following pilot testing at selected worksites in March and April, live operation was launched in May of **the Workflow application for the electronic circulation and approval of staff documents**, an extension of the OKbase human resources information system. Together with the launch of Workflow, online training and a manual for using the application were provided for users. Suggestions and comments were collected during the pilot stage to facilitate fine-tuning of the individual functions. Additional tests were conducted based on user suggestions at the end of the year to ensure that the system would be fully operational from the beginning of 2023.

## 7 Internationalization

### Development of Global Competencies of University Students and Employees (MEYS SI2021+: I1)

#### Visiting Renowned International Experts

One of the key aspects of developing and strengthening the international reputation of UCT Prague as a prestigious technology research university is maintaining regular contacts with leading scientists and academics from prestigious foreign universities and research organizations. Thanks to a financial contribution provided under the Higher Education Institutions Strategic Management Development Support Programme, **visits have been arranged of international experts** from institutions in Europe and elsewhere to contribute their expertise to the various fields of study pursued at UCT Prague. Overall, there were 19 foreign experts, 18 of which visited UCT Prague in person, while one visit consisted of both the online and in-person formats. The visiting experts delivered 33 lectures and 18 seminars that were attended by 867 and 288 students, respectively. A visit by a foreign expert was organized by 14 UCT Prague departments. The experts came from such renowned institutions as the Kyushu Institute of Technology, ETH Zurich, Stockholm University, the Technical University of Munich, and the Lund University.

## Reinforcement of the Strategic Management of Internationalization (MEYS SP2021+: I5)

### UCT Prague International Advisory Board

In September 2022, UCT Prague established a new strategic body – the [International Advisory Board](#) (IAB). The IAB held its first meeting on 22 September 2022 in the framework of the celebrations of the 70th anniversary of the existence of UCT Prague as an independent organization. The nine-member board comprises international academics and corporate sector representatives from Austria, France, Germany, Hungary, and United Kingdom. All IAB members serve with prominent organizations. They are not part of the UCT Prague faculty, and they are appointed and discharged by the Rector. Their term of office is four years. A person may serve as an IAB member for no more than two consecutive terms. The IAB is the Rector's advisory body, mainly for such issues as defining and assessing the main focus of scientific and academic activities, research and education programs, social role, international status, financing scheme, and evaluation methods. The IAB's main task is to intensify UCT's international presence and improve its attractiveness to international employees and students. The IAB will meet regularly, at least once a year. Its language of communication is English. The IAB's resolutions, recommendations, and approved public statements will be published on the UCT Prague website.

*"I have been planning the establishment of the IAB since the beginning of my term of office. While assessing the Methodology 17+, we put together an international evaluation panel. The panel did an excellent job, and most of its members agreed to join our new advisory body. The important thing is that these experts are already familiar with our university and the key issues we are currently dealing with,"* explained UCT Prague Rector Pavel Matějka.

## B. UCT Prague 2022 in Figures

Faculties	4
University-wide institute	1
Submitted admission applications	5,110
Students in accredited SP (enrollments)	4,262
Doctoral students (enrollments)	820
Accredited study programs	218
Joint, double, multiple degree study programs	22
International students (enrollments)	993
First-year academic failure	37.3%
Students in lifelong learning programs (incl. U3A)	1,249
Graduates (enrollments)	1,243
Application sector experts participating in teaching	166
Students receiving scholarship (as per scholarship purpose)	8,466
Employee headcount (full-time equivalent)	1,268.7
Faculty members and researchers – foreign nationals (full-time equivalent)	104,8
Newly appointed associate professors (women)	10 (4)
Newly appointed professors (women)	6 (1)
Student mobility (foreign internships)	132
Submitted accommodation applications	2,233
Student accommodation capacity	1,651
(Co-)organized international conferences	12
Research, consulting, and advisory contract	1,573
Executed international R&D projects	34

C. Tables

Table 2.1: Accredited study programs (number)										
UCT Prague		Bachelor's program		Master's program		Follow-up master's program		Doctoral program		TOTAL
		FT	PT/D	FT	PT/D	FT	PT/D	FT	PT/D	
<b>FCT</b>										
<b>ISCED-F broad fields</b>	<b>Code</b>									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02	1								1
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05	1				3		9	9	22
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	8				6		14	14	42
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FCT total	X	10	0	0	0	9	0	23	23	65
<b>FET</b>										
<b>ISCED-F broad fields</b>	<b>Code</b>									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05									0
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	4				6		10	10	30
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FET total	X	4	0	0	0	6	0	10	10	30
<b>FFBT</b>										
<b>ISCED-F broad fields</b>	<b>Code</b>									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05	3				6		14	14	37
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	3				3		11	11	28
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FFBT total	X	6	0	0	0	9	0	25	25	65
<b>FCE</b>										
<b>ISCED-F broad fields</b>	<b>Code</b>									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05	3				2		8	8	21
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	4				7		10	10	31
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FCE total	X	7	0	0	0	9	0	18	18	52
<b>Study across faculties</b>										
<b>ISCED-F broad fields</b>	<b>Code</b>									
General programs and qualifications	00									0
Education and training	01	1								1
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04	3				2				5
Natural sciences, mathematics, and statistics	05									0
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07									0
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
Total study across faculties	X	4	0	0	0	2	0	0	0	6
<b>UCT Prague</b>										
<b>ISCED-F broad fields</b>	<b>Code</b>									
General programs and qualifications	00	0	0	0	0	0	0	0	0	0
Education and training	01	1	0	0	0	0	0	0	0	1
Arts and humanities	02	1	0	0	0	0	0	0	0	1
Social sciences, journalism, and information sciences	03	0	0	0	0	0	0	0	0	0
Business, administration, and law	04	3	0	0	0	2	0	0	0	5
Natural sciences, mathematics, and statistics	05	7	0	0	0	11	0	31	31	80
Information and communication technologies	06	0	0	0	0	0	0	0	0	0
Technology, manufacturing, and civil engineering	07	19	0	0	0	22	0	45	45	131
Agriculture, forestry, fishing, and veterinary medicine	08	0	0	0	0	0	0	0	0	0
Health and welfare, environmental protection	09	0	0	0	0	0	0	0	0	0
Services	10	0	0	0	0	0	0	0	0	0
UCT TOTAL	X	31	0	0	0	35	0	76	76	218

FT = Full-time PT/D = Part-time / distance  
Note: \* = A faculty or another university unit delivering an accredited study program



Table 2.2: Foreign language study programs (number)										
UCT Prague		Bachelor's program		Master's program		Follow-up master's program		Doctoral program		TOTAL
		FT	PT/D	FT	PT/D	FT	PT/D	FT	PT/D	
FCT										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05					1		4	4	9
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	2				2		7	7	18
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FCT total	X	2	0	0	0	3	0	11	11	27
FET										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05									0
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	2				2		5	5	14
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FET total	X	2	0	0	0	2	0	5	5	14
FFBT										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05							7	7	14
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	2				1		5	5	13
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FFBT total	X	2	0	0	0	1	0	12	12	27
FCE										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05							4	4	8
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	2				2		5	5	14
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FCE total	X	2	0	0	0	2	0	9	9	22
Study across faculties										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04	2				1				3
Natural sciences, mathematics, and statistics	05									0
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07									0
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
Total study across faculties	X	2	0	0	0	1	0	0	0	3
UCT Prague										
ISCED-F broad fields	Code									
General programs and qualifications	00	0	0	0	0	0	0	0	0	0
Education and training	01	0	0	0	0	0	0	0	0	0
Arts and humanities	02	0	0	0	0	0	0	0	0	0
Social sciences, journalism, and information sciences	03	0	0	0	0	0	0	0	0	0
Business, administration, and law	04	2	0	0	0	1	0	0	0	3
Natural sciences, mathematics, and statistics	05	0	0	0	0	1	0	15	15	31
Information and communication technologies	06	0	0	0	0	0	0	0	0	0
Technology, manufacturing, and civil engineering	07	8	0	0	0	7	0	22	22	59
Agriculture, forestry, fishing, and veterinary medicine	08	0	0	0	0	0	0	0	0	0
Health and welfare, environmental protection	09	0	0	0	0	0	0	0	0	0
Services	10	0	0	0	0	0	0	0	0	0
UCT TOTAL	X	10	0	0	0	9	0	37	37	93

FT = Full-time

PT/D = Part-time / distance

Note: \* = A faculty or another university unit delivering an accredited study program

Table 2.3: Joint, double, multiple degree study programs delivered together with a foreign university	
<b>Title of program 1</b>	<b>Chemistry, specialization: Organic Chemistry / Transition Metals in Molecular Chemistry (T2MC)</b>
Partner organizations	Université Bourgogne Franche-Comté
Associated organizations	
Program category (joint, double, multiple degree)	Double
Program type (bachelor's, master's, follow-up master's, doctoral)	Master's
<b>Active enrollments as at December 31</b>	<b>2</b>
<b>Title of program 2</b>	<b>Master of Science in Chemistry and Chemical Technologies / Master GPBP – Génie des Procédés et des Bioprocédés</b>
Partner organizations	ENSIC-Université de Lorraine
Associated organizations	
Program category (joint, double, multiple degree)	Double
Program type (bachelor's, master's, follow-up master's, doctoral)	Master's
<b>Active enrollments as at December 31</b>	<b>1</b>
<b>Title of program 3</b>	<b>Chemistry, specialization: Organic Chemistry / Transition Metals in Molecular Chemistry (T2MC)</b>
Partner organizations	Università di Cagliari
Associated organizations	
Program category (joint, double, multiple degree)	Double
Program type (bachelor's, master's, follow-up master's, doctoral)	Master's
<b>Active enrollments as at December 31</b>	<b>4</b>
<b>Title of program 4</b>	<b>Biotechnology of Pharmaceuticals / Master of Science in Life Sciences</b>
Partner organizations	University of Applied Sciences and Arts Northwestern Switzerland FHNW
Associated organizations	
Program category (joint, double, multiple degree)	Double
Program type (bachelor's, master's, follow-up master's, doctoral)	Master's
<b>Active enrollments as at December 31</b>	<b>2</b>
<b>Title of program 5</b>	<b>Master of Science in Biotechnology and Food Science / and Laurea Magistrale in Molecular and Industrial Biotechnology</b>
Partner organizations	Università degli Studi dell'Insubria
Associated organizations	
Program category (joint, double, multiple degree)	Double
Program type (bachelor's, master's, follow-up master's, doctoral)	Master's
<b>Active enrollments as at December 31</b>	<b>4</b>
<b>Title of program 6</b>	<b>Synthesis and Manufacturing of Pharmaceuticals, Specialization Manufacturing of Pharmaceuticals / Life Sciences, Specialization Pharmatechnology or Chemistry</b>
Partner organizations	University of Applied Sciences and Arts Northwestern Switzerland FHNW
Associated organizations	
Program category (joint, double, multiple degree)	Double
Program type (bachelor's, master's, follow-up master's, doctoral)	Master's
<b>Active enrollments as at December 31</b>	<b>1</b>
<b>Title of program 7, 8</b>	<b>Chemistry and Chemical Technologies (FCT)</b>
Partner organizations	STU Bratislava, KU Leuven
Associated organizations	
Program category (joint, double, multiple degree)	Double degree
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
<b>Active enrollments as at December 31</b>	<b>0</b>
<b>Title of program 9, 10</b>	<b>Chemistry and Technology of Materials (FCT)</b>
Partner organizations	ENSC Lille, Normandie Université, Università Politecnica delle Marche
Associated organizations	
Program category (joint, double, multiple degree)	Double degree
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
<b>Active enrollments as at December 31</b>	<b>1</b>
<b>Title of program 11, 12</b>	<b>Chemistry (FCT)</b>
Partner organizations	Normandie Université, Universität Regensburg, Université Bourgogne Franche-Comté, KU Leuven
Associated organizations	
Program category (joint, double, multiple degree)	Double degree
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
<b>Active enrollments as at December 31</b>	<b>0</b>
<b>Title of program 13, 14</b>	<b>Environmental Chemistry and Technology (FET)</b>
Partner organizations	ENSCR Rennes, KU Leuven
Associated organizations	
Program category (joint, double, multiple degree)	Double degree
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
<b>Active enrollments as at December 31</b>	<b>4</b>
<b>Title of program 15, 16</b>	<b>Biotechnology (FFBT)</b>
Partner organizations	STU Bratislava
Associated organizations	
Program category (joint, double, multiple degree)	Double degree
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
<b>Active enrollments as at December 31</b>	<b>1</b>
<b>Title of program 17, 18</b>	<b>Biochemistry and Bioorganic Chemistry (FFBT)</b>
Partner organizations	ENSCR Rennes; UI Tromsø
Associated organizations	
Program category (joint, double, multiple degree)	Double degree
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
<b>Active enrollments as at December 31</b>	<b>1</b>
<b>Title of program 19, 20</b>	<b>Chemical and Process Engineering (FCE)</b>
Partner organizations	KU Leuven
Associated organizations	
Program category (joint, double, multiple degree)	Double degree
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
<b>Active enrollments as at December 31</b>	<b>3</b>
<b>Title of program 21, 22</b>	<b>Analytical and Physical Chemistry (FCE)</b>
Partner organizations	ENSCR Rennes, Universität Regensburg, Université Bourgogne Franche-Comté, KU Leuven, UI Tromsø
Associated organizations	
Program category (joint, double, multiple degree)	Double degree
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
<b>Active enrollments as at December 31</b>	<b>2</b>

Summary information for Table 2.3					
	Bachelor's program	Master's program	Follow-up master's program	Doctoral program	Total
UCT Prague					
Study programs			6	16	22
Active enrollments in the listed programs			14	12	26

Table 2.4: Accredited study programs delivered jointly with another university or public research institution* based in the Czech Republic	
UCT Prague	
Title of program 1, 2	Chemistry (FCT) P1417
ISCED-F broad field	0531
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	34
Title of program 3, 4	Chemistry P0531D130018 (FCT)
ISCED-F broad field	0531
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	51
Title of program 5, 6	Chemistry and Technology of Materials P2833
ISCED-F broad field	0711
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	26
Title of program 7, 8	Chemistry and Technology of Materials P0711D130008
ISCED-F broad field	0711
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	42
Title of program 9, 10	Chemistry and Chemical Technologies P2832
ISCED-F broad field	0711
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	10
Title of program 11, 12	Chemistry and Chemical Technologies P0711D130006
ISCED-F broad field	0711
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	28
Title of program 13, 14	Synthesis and Production of Drugs (FCT) P2824
ISCED-F broad field	0711
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	45
Title of program 15, 16	Bioinformatics P0588D030002
ISCED-F broad field	0588
Partner university / institution*	CAS,
Program type (bachelor's, master's, follow-up master's, doctoral)	Czech Technical University
Active enrollments as at December 31	Doctoral
	15
Title of program 17	Conservation Sciences in Protection of Tangible Cultural Heritage P0531D130067
ISCED-F broad field	0531
Partner university / institution*	University of Pardubice
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	3
Title of program 18, 19	Chemistry (FFBT) P1417
ISCED-F broad field	0531
Partner university / institution*	CAS,
Program type (bachelor's, master's, follow-up master's, doctoral)	Institute of Hematology and Blood Transfusion of the Ministry of Health of the Czech Republic,
Active enrollments as at December 31	Crop Research Institute
	Doctoral
	52
Title of program 20, 21	Microbiology P1528
ISCED-F broad field	0511
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	23
Title of program 22, 23	Biochemistry and Biotechnology P2836
ISCED-F broad field	0512
Partner university / institution*	CAS,
Program type (bachelor's, master's, follow-up master's, doctoral)	Crop Research Institute
Active enrollments as at December 31	Doctoral
	13
Title of program 24, 25	Food Chemistry and Technology P2906
ISCED-F broad field	0721
Partner university / institution*	CAS,
Program type (bachelor's, master's, follow-up master's, doctoral)	Crop Research Institute,
Active enrollments as at December 31	Food Research Institute Prague
	Doctoral
	37
Title of program 26, 27	Synthesis and Production of Drugs (FFBT) P2824
ISCED-F broad field	0711
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	0
Title of program 28, 29	Microbiology P0511D130022
ISCED-F broad field	0511
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	20
Title of program 30, 31	Biotechnology P0711D130020
ISCED-F broad field	0711
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	26
Title of program 32, 33	Biochemistry and Bioorganic Chemistry P0512D130010
ISCED-F broad field	0512
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	32
Title of program 34, 35	Chemistry (FCE) P1417
ISCED-F broad field	0531
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	40
Title of program 36, 37	Chemical and Process Engineering P2837
ISCED-F broad field	0711
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	48
Title of program 38, 39	Synthesis and Production of Drugs (FCE) P2824
ISCED-F broad field	0711
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	11
Title of program 40, 41	Chemistry P0531D130022
ISCED-F broad field	0531
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	28
Title of program 42, 43	Chemical and Process Engineering P0711D130016
ISCED-F broad field	0711
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	36
Title of program 44, 45	Molecular Chemical Physics and Sensorics P0531D130028
ISCED-F broad field	0531
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	29
Title of program 46	Pharmaceutical Biotechnologies (P0512D130018)
ISCED-F broad field	0512
Partner university / institution*	Czech Academy of Sciences
Program type (bachelor's, master's, follow-up master's, doctoral)	Doctoral
Active enrollments as at December 31	0

Note: \*- For example, accredited study programs delivered together with CAS or other public research institutions based in the Czech Republic

Summary information for Table 2.4					
	Bachelor's program	Master's program	Follow-up master's program	Doctoral program	Total
UCT Prague					
Study programs	0		0	46	46
Active enrollments in the listed programs	0		0	649	649

Table 2.5: Accredited study programs delivered jointly with a tertiary technical school	
UCT Prague	
	Conservation and Restoration of Cultural Heritage Items/Historical Artworks
Title of program 1	
ISCED-F broad field	02
Partner tertiary technical school	Akademie - VOŠ, Gymn. a SOŠUP Světlá nad Sázavou, Vyšší odborná škola textilních řemesel a Střední umělecká škola řemesel, Střední uměleckoprůmyslová škola a Vyšší odborná škola Turnov
Program type (bachelor's, master's, follow-up master's, doctoral)	Bachelor's
Active enrollments as at December 31	1
Title of program 2	Conservation and Restoration of Historical Artworks
ISCED-F broad field	02
Partner tertiary technical school	Akademie - VOŠ, Gymn. a SOŠUP Světlá nad Sázavou, Vyšší odborná škola textilních řemesel a Střední umělecká škola řemesel, Střední uměleckoprůmyslová škola a Vyšší odborná škola Turnov
Program type (bachelor's, master's, follow-up master's, doctoral)	Bachelor's
Active enrollments as at December 31	43

Summary information for Table 2.5					
UCT Prague	Bachelor's program	Master's program	Follow-up master's program	Doctoral program	Total
Study programs	2	0	0	0	2
Active enrollments in the listed programs	44	0	0	0	44

Table 2.6: Lifelong learning (LLL) university courses (number of courses delivered)									
UCT Prague		Professionally oriented courses			Interest-oriented courses			U3A	TOTAL
		Up to 15 lessons	16 to 100 lessons	Over 100 lessons	Up to 15 lessons	16 to 100 lessons	Over 100 lessons		
ISCED-F broad fields	Code								
General programs and qualifications	00								0
Education and training	01				5	38	23		66
Arts and humanities	02								0
Social sciences, journalism, and information sciences	03								0
Business, administration, and law	04								0
Natural sciences, mathematics, and statistics	05	1	9	4				3	17
Information and communication technologies	06							2	2
Technology, manufacturing, and civil engineering	07								0
Agriculture, forestry, fishing, and veterinary medicine	08								0
Health and welfare, environmental protection	09								0
Services	10								0
TOTAL	X	1	9	4	5	38	23	5	85

**Table 2.7: Lifelong learning (LLL) university courses (number of enrolled students)**

UCT Prague		Professionally oriented courses			Interest-oriented courses			U3A	TOTAL*	Including students admitted to study program in accordance with Section 60 of the Higher Education Act
		Up to 15 lessons	16 to 100 lessons	Over 100 lessons	Up to 15 lessons	16 to 100 lessons	Over 100 lessons			
ISCED-F broad fields	Code									
General programs and qualifications	00									
Education and training	01				41	335	529		905	0
Arts and humanities	02									
Social sciences, journalism, and information sciences	03									
Business, administration, and law	04									
Natural sciences, mathematics, and statistics	05	6	141	33				91	271	0
Information and communication technologies	06							73	73	0
Technology, manufacturing, and civil engineering	07									
Agriculture, forestry, fishing, and veterinary medicine	08									
Health and welfare, environmental protection	09									
Services	10									
TOTAL*	X	6	141	33	41	335	529	164	1249	

Note: \* = Because the figure includes students that may be enrolled in multiple courses, the total may not be equal to the sum of the preceding lines or columns. It reflects the actual total number enrolled students, where one person may be included more than once.



**Table 2.8: Lifelong learning (LLL) university courses (number of courses and enrolled students) – microcredentials**

University (name)		Number of courses			TOTAL	Number of enrolled students			TOTAL*
		Professionally oriented courses	Interest-oriented courses	U3A		Professionally oriented courses	Interest-oriented courses	U3A	
<b>ISCED-F broad fields</b>	<b>Code</b>								
General programs and qualifications	00				0				-
Education and training	01		0		0				-
Arts and humanities	02				0				-
Social sciences, journalism, and information sciences	03				0				-
Business, administration, and law	04				0				-
Natural sciences, mathematics, and statistics	05	0	0	0	0				-
Information and communication technologies	06			0	0				-
Technology, manufacturing, and civil engineering	07				0				-
Agriculture, forestry, fishing, and veterinary medicine	08				0				-
Health and welfare, environmental protection	09				0				-
Services	10				0				-
<b>TOTAL*</b>	X	0	0	0	0				

Note: \* = Because the total number of students includes persons who may be enrolled in multiple courses, the total may not be equal to the sum of the preceding lines or columns. It reflects the actual total number enrolled students, where one person may be included more than once.

Table 3.1: Students in accredited study programs (enrollments)										
UCT Prague		Bachelor's program		Master's program		Follow-up master's program		Doctoral program		TOTAL
		FT	PT/D	FT	PT/D	FT	PT/D	FT	PT/D	
FCT										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02	44								44
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05	27				42		66	6	141
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	534				219		142	44	939
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FCT total	X	605	0	0	0	261	0	208	50	1124
Including female students at FCT	X	347				132		102	28	609
Including foreign nationals at FCT	X	124				41		61	9	235
FET										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05									0
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	127				111		68	50	356
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FET total	X	127	0	0	0	111	0	68	50	356
Including female students at FET	X	60				58		34	24	176
Including foreign nationals at FET	X	22				34		22	6	84
FFBT										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05	579				245		109	35	968
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	98				112		58	36	304
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FFBT total	X	677	0	0	0	357	0	167	71	1272
Including female students at FFBT	X	481				268		100	39	888
Including foreign nationals at FFBT	X	130				59		38	17	244
FCE										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05	346				102		83	16	547
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	202				150		84	23	459
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FCE total	X	548	0	0	0	252	0	167	39	1006
Including female students at FCE	X	264				116		58	7	445
Including foreign nationals at FCE	X	101				55		37	8	201
Study across faculties										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01	1								1
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04	359				144				503
Natural sciences, mathematics, and statistics	05									0
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07									0
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
Total study across faculties	X	360	0	0	0	144	0	0	0	504
Including female students	X	216				83				299
Including foreign nationals	X	163				66				229
UCT Prague										
ISCED-F broad fields	Code									
General programs and qualifications	00	0	0	0	0	0	0	0	0	0
Education and training	01	1	0	0	0	0	0	0	0	1
Arts and humanities	02	44	0	0	0	0	0	0	0	44
Social sciences, journalism, and information sciences	03	0	0	0	0	0	0	0	0	0
Business, administration, and law	04	359	0	0	0	144	0	0	0	503
Natural sciences, mathematics, and statistics	05	952	0	0	0	389	0	258	57	1656
Information and communication technologies	06	0	0	0	0	0	0	0	0	0
Technology, manufacturing, and civil engineering	07	961	0	0	0	592	0	352	153	2058
Agriculture, forestry, fishing, and veterinary medicine	08	0	0	0	0	0	0	0	0	0
Health and welfare, environmental protection	09	0	0	0	0	0	0	0	0	0
Services	10	0	0	0	0	0	0	0	0	0
UCT TOTAL	X	2317	0	0	0	1125	0	610	210	4262
Including total female students	X	1368	0	0	0	657	0	294	98	2417
Including total foreign nationals	X	540	0	0	0	255	0	158	40	993

Note: \* = A faculty or another university unit delivering an accredited study program  
 FT = Full-time  
 PT/D = Part-time / distance

Table 3.2: Self-paying students** (enrollments)										
UCT Prague		Bachelor's program		Master's program		Follow-up master's program		Doctoral program		TOTAL
		FT	PT/D	FT	PT/D	FT	PT/D	FT	PT/D	
FCT										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05					1		2		3
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	6				2		2		10
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FCT total	X	6	0	0	0	3	0	4	0	13
FET										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05									0
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	2				5		1		8
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FET total	X	2	0	0	0	5	0	1	0	8
FFBT										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05							1	1	2
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	12				8		1	1	22
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FFBT total	X	12	0	0	0	8	0	2	2	24
FCE										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05							1		1
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	16				5		1	2	24
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
FCE total	X	16	0	0	0	5	0	2	2	25
Study across faculties										
ISCED-F broad fields	Code									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04	41				38				79
Natural sciences, mathematics, and statistics	05									0
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07									0
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
Total study across faculties	X	41	0	0	0	38	0	0	0	79
UCT Prague										
ISCED-F broad fields	Code									
General programs and qualifications	00	0	0	0	0	0	0	0	0	0
Education and training	01	0	0	0	0	0	0	0	0	0
Arts and humanities	02	0	0	0	0	0	0	0	0	0
Social sciences, journalism, and information sciences	03	0	0	0	0	0	0	0	0	0
Business, administration, and law	04	41	0	0	0	38	0	0	0	79
Natural sciences, mathematics, and statistics	05	0	0	0	0	1	0	4	1	6
Information and communication technologies	06	0	0	0	0	0	0	0	0	0
Technology, manufacturing, and civil engineering	07	36	0	0	0	20	0	5	3	64
Agriculture, forestry, fishing, and veterinary medicine	08	0	0	0	0	0	0	0	0	0
Health and welfare, environmental protection	09	0	0	0	0	0	0	0	0	0
Services	10	0	0	0	0	0	0	0	0	0
UCT TOTAL	X	77	0	0	0	59	0	9	4	149

Note: \* = A faculty or another university unit delivering an accredited study program

Note: \*\*= Self-paying students pay the full tuition fees applicable to their course delivered in a foreign language. The university does not include these students in figures

FT = Full-time

PT/D = Part-time / distance

**Table 3.3: First year\*\* academic failure\* (%)**

UCT Prague	Bachelor's program			Master's program			Follow-up master's program			Doctoral program			TOTAL
	FT	PT/D	TOTAL	FT	PT/D	TOTAL	FT	PT/D	TOTAL	FT	PT/D	TOTAL	
<i>FCT</i>	52,9%		52,9%				5,5%		5,5%	6,4%	12,5%	7,1%	35,0%
<i>FET</i>	56,5%		56,5%				18,2%		18,2%	15,3%	28,6%	20,0%	36,8%
<i>FFBT</i>	56,3%		56,3%				8,2%		8,2%	14,0%	33,3%	15,1%	36,6%
<i>FCE</i>	48,8%		48,8%				5,8%		5,8%	7,0%	67,0%	10,8%	33,3%
<i>Study across faculties</i>	55,9%		55,9%				45,1%		45,1%				53,4%
<b>UCT TOTAL</b>	54,2%		54,2%				13,3%		13,3%	9,5%	28,6%	11,6%	37,3%

Note: \* = Academic failure refers to the percentage of students enrolled in calendar year 'n' and the sum of students in this cohort who fail in calendar years 'n' and 'n+1'. See Methodology.

Note: \*\* = Including all students enrolled to study at a given university in calendar year 'n', regardless of whether or not it is their first university enrollment.

Note: \*\*\* = A faculty or another university unit delivering an accredited study program.

FT = Full-time

PT/D = Part-time / distance

The TOTAL is neither a sum nor average of the preceding values (i.e. for FT and PT/D in certain study program). Calculation must to be done separately for each field in the table.

**Example:**

In 2021 (January 1 to December 31), 500 full-time students were enrolled in bachelor's programs at the faculty. In the same and the following years, 180 failed. Academic failure in this cohort in the first year is equal to  $180/500=0.36$ , i.e. 36%.

Table 3.4: Scholarships* according to purpose (number of students)		
UCT Prague		
Purpose of scholarship	Number of students	Average scholarship value**
Outstanding academic performance as per Section 91, Paragraph 2, Subsection a)	775	14 628
Outstanding scientific, research, development, artistic, or other creative achievements as per Section 91, Paragraph 2, Subsection b)	28	52 500
Research, development, and innovation as per specific legislation, Section 91, Paragraph 2, Subsection c)	1 418	28 642
Social need as per Section 91, Paragraph 2, Subsection d)	500	4 824
Social need as per Section 91, Paragraph 3	8	28 238
Special considerations as per Section 91, Paragraph 2, Subsection e)	4 031	7 489
Including accommodation allowance	3 087	5 375
Study abroad as per Section 91, Paragraph 4, Subsection a)	300	37 360
Support for study in the Czech Republic as per Section 91, Paragraph 4, Subsection b)	258	21 915
Doctoral study programs as per Section 91, Paragraph 4, Subsection c)	729	112 503
Other scholarships	419	3 652
<b>TOTAL***</b>	<b>8 466</b>	<b>22 048</b>

Note: \* = Regardless of the source of funding, excluding funds from MEYS.

Note: \*\* = The ratio of the total sum paid for a given scholarship type in a year and the total number of persons who receive at least one scholarship in that year. If a person receives several scholarships, the person is included only once, but the calculation includes the total amount paid to such a person.

Note: \*\*\* = Because the figure includes recipients of more than one scholarship, the total is equal to the actual number of students as opposed to being the sum of the preceding columns.

**Example:** In a given year, the university disburses CZK 15,000 in total scholarships to students for excellent academic achievements in accordance with Section 91, Paragraph 2, Subsection a). Scholarships are awarded to three students; two receive it on one and one on three occasions. The average value of the scholarship is equal to CZK 5,000 (= 15,000/3).

Table 4.1: Graduates from accredited study programs (number of completed programs)										
		Bachelor's program		Master's program		Follow-up master's program		Doctoral program		TOTAL
UCT Prague		FT	PT/D	FT	PT/D	FT	PT/D	FT	PT/D	
<b>FCT</b>										
<b>ISCED-F broad fields</b>	<b>Code</b>									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02	3				23				26
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05	1						2	3	6
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	129				155		8	14	306
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
<b>FCT total</b>	<b>X</b>	<b>133</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>178</b>	<b>0</b>	<b>10</b>	<b>17</b>	<b>338</b>
Including female students at FCT	X	71				110		3	7	191
Including foreign nationals at FCT	X	29				48		2	1	80
<b>FET</b>										
<b>ISCED-F broad fields</b>	<b>Code</b>									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05									0
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	45				93		2	8	148
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
<b>FET total</b>	<b>X</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>93</b>	<b>0</b>	<b>2</b>	<b>8</b>	<b>148</b>
Including female students at FET	X	24				47		1	3	75
Including foreign nationals at FET	X	18				29		1	1	49
<b>FFBT</b>										
<b>ISCED-F broad fields</b>	<b>Code</b>									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05	113				111		8	14	246
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	58				81			6	145
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
<b>FFBT total</b>	<b>X</b>	<b>171</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>192</b>	<b>0</b>	<b>8</b>	<b>20</b>	<b>391</b>
Including female students at FFBT	X	121				149		7	12	289
Including foreign nationals at FFBT	X	30				42		4	1	77
<b>FCE</b>										
<b>ISCED-F broad fields</b>	<b>Code</b>									
General programs and qualifications	00									0
Education and training	01									0
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04									0
Natural sciences, mathematics, and statistics	05	64				39		2	12	117
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07	86				54		4	8	152
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
<b>FCE total</b>	<b>X</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>93</b>	<b>0</b>	<b>6</b>	<b>20</b>	<b>269</b>
Including female students at FCE	X	64				44		1	9	118
Including foreign nationals at FCE	X	34				13			5	52
<b>Study across faculties</b>										
<b>ISCED-F broad fields</b>	<b>Code</b>									
General programs and qualifications	00									0
Education and training	01	2								2
Arts and humanities	02									0
Social sciences, journalism, and information sciences	03									0
Business, administration, and law	04	69				26				95
Natural sciences, mathematics, and statistics	05									0
Information and communication technologies	06									0
Technology, manufacturing, and civil engineering	07									0
Agriculture, forestry, fishing, and veterinary medicine	08									0
Health and welfare, environmental protection	09									0
Services	10									0
<b>Total study across faculties</b>	<b>X</b>	<b>71</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>97</b>
Including female students	X	51				13				64
Including foreign nationals	X	41				7				48
<b>UCT Prague</b>										
<b>ISCED-F broad fields</b>	<b>Code</b>									
General programs and qualifications	00	0	0	0	0	0	0	0	0	0
Education and training	01	2	0	0	0	0	0	0	0	2
Arts and humanities	02	3	0	0	0	23	0	0	0	26
Social sciences, journalism, and information sciences	03	0	0	0	0	0	0	0	0	0
Business, administration, and law	04	69	0	0	0	26	0	0	0	95
Natural sciences, mathematics, and statistics	05	178	0	0	0	150	0	12	29	369
Information and communication technologies	06	0	0	0	0	0	0	0	0	0
Technology, manufacturing, and civil engineering	07	318	0	0	0	383	0	14	36	751
Agriculture, forestry, fishing, and veterinary medicine	08	0	0	0	0	0	0	0	0	0
Health and welfare, environmental protection	09	0	0	0	0	0	0	0	0	0
Services	10	0	0	0	0	0	0	0	0	0
<b>UCT TOTAL</b>	<b>X</b>	<b>570</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>582</b>	<b>0</b>	<b>26</b>	<b>65</b>	<b>1243</b>
<b>Including total female students</b>	<b>X</b>	<b>331</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>363</b>	<b>0</b>	<b>12</b>	<b>31</b>	<b>737</b>
<b>Including total foreign nationals</b>	<b>X</b>	<b>152</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>139</b>	<b>0</b>	<b>7</b>	<b>8</b>	<b>306</b>

FT = Full-time, PT/D = Part-time / distance; the figures refer to successfully completed programs, as opposed to students, during January 1 to December 31.  
Note: \* = A faculty or another university unit delivering an accredited study program.



Table 5.1: Demand for university enrollment																	
		Bachelor's program				Master's program				Follow-up master's program				Doctoral program			
		Applicants (persons)	Applications	Admissions	Registration \$	Applicants (persons)	Applications	Admissions	Registration \$	Applicants (persons)	Applications	Admissions	Registration \$	Applicants (persons)	Applications	Admissions	Registration \$
UCT Prague																	
<b>FCT</b>																	
<b>ISCED-F broad fields</b>	<b>Code</b>																
General programs and qualifications	00																
Education and training	01																
Arts and humanities	02	34	34	24	22												
Social sciences, journalism, and information sciences	03																
Business, administration, and law	04																
Natural sciences, mathematics, and statistics	05	69	69	42	20					43	43	26	21	26	27	25	25
Information and communication technologies	06																
Technology, manufacturing, and civil engineering	07	862	960	711	313					150	172	143	101	32	32	28	21
Agriculture, forestry, fishing, and veterinary medicine	08																
Health and welfare, environmental protection	09																
Services	10																
FCT total	X	945	1 063	777	355		0	0	0	184	215	169	122	57	59	53	46
<b>FET</b>																	
<b>ISCED-F broad fields</b>	<b>Code</b>																
General programs and qualifications	00																
Education and training	01																
Arts and humanities	02																
Social sciences, journalism, and information sciences	03																
Business, administration, and law	04																
Natural sciences, mathematics, and statistics	05																
Information and communication technologies	06																
Technology, manufacturing, and civil engineering	07	186	200	159	71					76	78	58	50	30	30	25	24
Agriculture, forestry, fishing, and veterinary medicine	08																
Health and welfare, environmental protection	09																
Services	10																
FET total	X	186	200	159	71	0	0	0	0	76	78	58	50	30	30	25	24
<b>FFBT</b>																	
<b>ISCED-F broad fields</b>	<b>Code</b>																
General programs and qualifications	00																
Education and training	01																
Arts and humanities	02																
Social sciences, journalism, and information sciences	03																
Business, administration, and law	04																
Natural sciences, mathematics, and statistics	05	987	1 041	779	377					205	304	200	110	36	36	29	24
Information and communication technologies	06																
Technology, manufacturing, and civil engineering	07	126	126	78	39					96	101	72	36	14	14	13	10
Agriculture, forestry, fishing, and veterinary medicine	08																
Health and welfare, environmental protection	09																
Services	10																
FFBT total	X	1 086	1 167	857	416		0	0	0	272	405	272	146	50	50	42	34
<b>FCE</b>																	
<b>ISCED-F broad fields</b>	<b>Code</b>																
General programs and qualifications	00																
Education and training	01																
Arts and humanities	02																
Social sciences, journalism, and information sciences	03																
Business, administration, and law	04																
Natural sciences, mathematics, and statistics	05	474	495	363	184					83	97	84	54	21	21	19	17
Information and communication technologies	06																
Technology, manufacturing, and civil engineering	07	247	264	192	94					77	93	83	55	24	24	18	15
Agriculture, forestry, fishing, and veterinary medicine	08																
Health and welfare, environmental protection	09																
Services	10																
FCE total	X	683	759	555	278	0	0	0	0	151	190	167	109	45	45	37	32
<b>Study across faculties</b>																	
<b>ISCED-F broad fields</b>	<b>Code</b>																
General programs and qualifications	00																
Education and training	01																
Arts and humanities	02																
Social sciences, journalism, and information sciences	03																
Business, administration, and law	04	698	698	354	267					151	151	88	75				
Natural sciences, mathematics, and statistics	05																
Information and communication technologies	06																
Technology, manufacturing, and civil engineering	07																
Agriculture, forestry, fishing, and veterinary medicine	08																
Health and welfare, environmental protection	09																
Services	10																
Total study across faculties	X	698	698	354	267	0	0	0	0	151	151	88	75	0	0	0	0
<b>UCT Prague</b>		<b>- the total for the university is not the sum of individual faculties!</b>															
<b>ISCED-F broad fields</b>	<b>Code</b>																
General programs and qualifications	00																
Education and training	01																
Arts and humanities	02	34	34	24	22												
Social sciences, journalism, and information sciences	03																
Business, administration, and law	04	698	698	354	267					151	151	88	75				
Natural sciences, mathematics, and statistics	05	1 290	1 605	1 184	581					305	444	310	185	83	84	73	66
Information and communication technologies	06																
Technology, manufacturing, and civil engineering	07	1 431	1 550	1 140	517					368	444	356	244	100	100	87	70
Agriculture, forestry, fishing, and veterinary medicine	08																
Health and welfare, environmental protection	09																
Services	10																
<b>TOTAL UCT Prague</b>	<b>X</b>	<b>3 041</b>	<b>3 887</b>	<b>2 702</b>	<b>1 387</b>					<b>718</b>	<b>1 039</b>	<b>754</b>	<b>504</b>	<b>182</b>	<b>184</b>	<b>160</b>	<b>136</b>

Note: \* = A faculty or another university unit delivering an accredited study program  
FT = Full-time

Table 6.1: Total faculty, research, and other staff (full-time equivalent\*)

UCT Prague	Faculty								Researchers and specialists**			Other employees*****	TOTAL employees
	TOTAL faculty	Professors	Associate professors	Assistant professors	Assistants	Lecturers	Scientific, research, and development staff taking part in teaching	Visiting professors	Postdoctoral fellows***	Researchers other than classified in the above categories	Other scientific, research, and development staff****		
<b>FCT*****</b>	199,743	19,791	28,058	49,377	2,000	0,000	100,017	0,500	64,595	8,562	20,154	25,312	318,366
Women at FCT	75,052		7,500	19,127		0,000	48,425	0,000	20,946	4,112	14,425	16,489	131,024
<b>FET*****</b>	69,612	5,550	12,450	30,546	1,600	0,000	19,466	0,000	19,642	0,800	1,412	8,075	99,541
Women at FET	28,800	0,466	2,250	14,295	0,600	0,000	11,189	0,000	5,775	0,800	0,301	6,683	42,359
<b>FFBT*****</b>	147,294	20,820	32,185	33,270	2,225	0,000	58,794	0,000	27,806	2,560	13,652	10,612	201,924
Women at FFBT	82,970	4,500	15,935	23,570	2,225	0,000	36,740	0,000	12,639	1,500	7,425	9,643	114,177
<b>FCE*****</b>	151,153	16,975	23,441	49,882	0,871	0,000	59,984	0,000	20,595	3,340	12,685	10,026	197,799
Women at FCE	44,863	1,633	2,200	21,953	0,425	0,000	18,652	0,000	6,479	1,200	7,798	9,420	69,760
<b>Total in other units</b>	130,384	7,367	11,967	48,277	6,871	0,250	55,652	0,000	14,267	3,024	14,221	289,213	451,109
Women in other units	64,476	1,667	6,417	27,917	2,121	0,250	26,104		4,655	1,410	9,140	170,000	249,681
<b>TOTAL</b>	<b>698,186</b>	<b>70,503</b>	<b>108,101</b>	<b>211,352</b>	<b>13,567</b>	<b>0,250</b>	<b>293,913</b>	<b>0,500</b>	<b>146,905</b>	<b>18,286</b>	<b>62,124</b>	<b>343,238</b>	<b>1 268,739</b>
<b>Total women</b>	<b>296,161</b>	<b>8,266</b>	<b>34,302</b>	<b>106,862</b>	<b>5,371</b>	<b>0,250</b>	<b>141,110</b>	<b>0,000</b>	<b>50,494</b>	<b>9,022</b>	<b>39,089</b>	<b>212,235</b>	<b>607,001</b>

Note: \* = Full-time equivalent refers to the ratio of total number of hours worked from January 1 to December 31 (by all workers in the reported category, including DPČ work performance contracts, excluding DPP casual work contracts) and the

Note: \*\* = Researcher means a scientist other than a faculty member as per Section 70 of Act No. 111/1998 Coll. on Higher Education.

Note: \*\*\* = A person employed by a research institution or a university during five years after award of a Ph.D. or equivalent degree. He/she has a specific assignment in a research team of the institution, usually under the supervision of senior

Note: \*\*\*\* = Other scientific, research, and development staff include technicians and specialists who are not directly involved in research, but are indispensable for research work, such as staff in charge of the research facility's operations.

Note: \*\*\*\*\* = Other employees include all other workers that are not directly involved in teaching and research. They include administrative, maintenance, and other employees.

Note: \*\*\*\*\* = A faculty or another university unit delivering an accredited study program.

Table 6.2: Age structure of faculty, researchers, and other employees (number of persons\*)

UCT Prague	Faculty														Researchers and specialists**								Other employees*****		TOTAL	Including women
	Professors		Associate professors		Assistant professors		Assistants		Lecturers		Scientific, research, and development staff taking part in teaching		Visiting professors		Postdoctoral fellows***		Researchers other than classified in the above categories		Other scientific, research, and development staff****							
	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women				
Aged up to 29 years	0	0	0	0	2	1	7	2	0	0	258	123	0	0	11	5	16	11	12	8	20	10	326	160		
Aged 30-39 years	0	0	10	2	136	62	8	5	1	1	88	47	0	0	120	46	2	2	6	7	32	24	403	196		
Aged 40-49 years	20	1	49	14	133	64	7	1	0	0	57	27	0	0	22	6	1	1	20	14	81	75	390	203		
Aged 50-59 years	21	1	37	15	52	32	2	1	0	0	27	11	1	0	0	0	0	0	24	18	93	78	257	156		
Aged 60-69 years	30	2	25	11	29	12	1	1	1	1	10	3	0	0	1	0	0	0	14	6	80	42	191	78		
Aged over 70 years	25	7	9	2	6	1	0	0	0	0	5	2	0	0	0	0	0	0	8	2	22	7	75	21		
TOTAL	96	11	130	44	358	172	25	10	2	2	445	213	1	0	154	57	19	14	84	55	328	236	1642	814		

Note: \* = Total number of regular employees, both part- and full-time, excluding DPČ work performance contracts, DPP casual work contracts, and other contracts having the nature of purchased services as per the Civil Code.

Note: \*\* = Researcher means a scientist other than a faculty member as per Section 70 of Act No. 111/1998 Coll. on Higher Education.

Note: \*\*\* = A person employed by a research institution or a university during five years after award of a Ph.D. or equivalent degree. He/she has a specific assignment in a research team of the institution, usually under the supervision of senior researchers, and publishes research results both independently and as part of the team. He/she works under an employment agreement for the maximum of three consecutive fixed terms of one to three years. He/she receives a salary as per the remuneration system of the institution, and is eligible for bonuses

Note: \*\*\*\* = Other scientific, research, and development staff include technicians and specialists who are not directly involved in research, but are indispensable for research work, such as staff in charge of the research facility's operations.

Note: \*\*\*\*\* = Other employees include all other workers that are not directly involved in teaching and research. They include administrative, maintenance, and other employees.

Table 6.3: Faculty and researchers by working hours and highest attained education (number of persons by working hours)													
UCT Prague	Faculty								Researchers*		TOTAL	Including women	
FCT**													
	Prof.		Doc.		DrSc., CSc., Dr., Ph.D., Th.D.		Other		TOTAL	Women			
Full-time	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women					
Up to 0.3	1	0	6	0	5	1	0	0	34	19	46	20	
0.31-0.5	3	1	2	1	6	1	0	0	37	27	48	30	
0.51-0.7	2	0	1	0	0	0	0	0	15	8	18	8	
0.71-1	21	0	30	8	79	30	5	2	112	46	247	86	
Over 1	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	27	1	39	9	90	32	5	2	198	100	359	144	
FET**													
	Prof.		Doc.		DrSc., CSc., Dr., Ph.D., Th.D.		Other		TOTAL	Women			
Full-time	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women					
Up to 0.3	1	0	3	1	2	2	0	0	6	2	12	5	
0.31-0.5	1	1	0	0	4	4	0	0	9	3	14	8	
0.51-0.7	0	0	1	0	0	0	0	0	10	5	11	5	
0.71-1	5		11	2	44	18	2	1	17	10	79	31	
Over 1	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	7	1	15	3	50	24	2	1	42	20	116	49	
FFBT**													
	Prof.		Doc.		DrSc., CSc., Dr., Ph.D., Th.D.		Other		TOTAL	Women			
Full-time	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women					
Up to 0.3	3	0	6	3	6	4	0	0	41	25	56	32	
0.31-0.5	7	2	4	2	5	3	0	0	24	13	40	20	
0.51-0.7	2	1	1	0	1	1	2	2	12	5	18	9	
0.71-1	18	4	28	14	49	28	2	2	34	23	131	71	
Over 1	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	30	7	39	19	61	36	4	4	111	66	245	132	
FCE**													
	Prof.		Doc.		DrSc., CSc., Dr., Ph.D., Th.D.		Other		TOTAL	Women			
Full-time	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women					
Up to 0.3	8	0	5	1	13	3	5	1	28	14	59	19	
0.31-0.5	2	1	3	0	10	4	0	0	56	16	71	21	
0.51-0.7	2	1	0	0	6	3	0	0	9	2	17	6	
0.71-1	15	0	21	4	53	22	0	0	28	11	117	37	
Over 1	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	27	2	29	5	82	32	5	1	121	43	264	83	
Total other units**													
	Prof.		Doc.		DrSc., CSc., Dr., Ph.D., Th.D.		Other		TOTAL	Women			
Full-time	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women					
Up to 0.3	0	0	2	0	3	1	1	0	8	2	14	3	
0.31-0.5	3	0	5	3	10	6	4	4	10	6	32	19	
0.51-0.7	0	0	0	0	2	1	1	0	3	2	6	3	
0.71-1	5	1	8	4	31	11	22	11	37	19	103	46	
Over 1	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	8	1	15	7	46	19	28	15	58	29	155	71	
UCT Prague													
	Prof.		Doc.		DrSc., CSc., Dr., Ph.D., Th.D.		Other		TOTAL	Women			
Full-time	TOTAL	Women	TOTAL	Women	TOTAL	Women	TOTAL	Women					
Up to 0.3	13	0	22	5	29	11	6	1	117	62	187	79	
0.31-0.5	16	5	14	6	35	18	4	4	136	65	205	98	
0.51-0.7	6	2	3	0	9	5	3	2	49	22	70	31	
0.71-1	64	5	98	32	256	109	31	16	228	109	677	271	
Over 1	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	99	12	137	43	329	143	44	23	530	258	1139	479	
UCT TOTAL	99	12	137	43	329	143	44	23	530	258	1139	479	

Note: The highest attained academic title.

Note: \* = Researcher means a person other than a faculty member as per Section 70 of Act No. 111/1998 Coll. on Higher Education.

Note: \*\* = A faculty or another university unit delivering an accredited study program.

Table 6.4: Executive staff (persons)

	Rector/D ean	Vice Rector/Vice Dean	Academic Senate	Scientific/Art/Acade mic Board	Bursar/Secr etary**	Board of Trustees	Director of department, university-run farm or forest, and other unit	Head of department/institute/rese arch center****	TOTAL executive staff *****
<b>UCT Prague</b>									
<i>UCT Prague – Data for university/Rector's Office, other units excluded</i>	1	4	24	39	1	9			78
Including women	0	1	6	3	1	2			13
<b>FCT*</b>	1	3	11	35	1			12	63
Including women	0	0	3	2	1			0	6
<b>FET*</b>	1	3	9	34	1			6	54
Including women	0	0	4	5	1			0	10
<b>FFBT*</b>	1	3	11	37	1			7	60
Including women	0	1	6	14	1			2	24
<b>FCE*</b>	1	3	13	31	1			6	55
Including women	0	0	3	1	1			0	5
<b>University institutes and farms or forests</b>					0		1	0	1
Including women				0	0		0	0	0
<b>Total other units***</b>				0	0		0	12	12
Including women				0	0		0	5	5
<b>Faculties*, university departments, and other units</b>	4	12	44	137	4		1	43	245
Including women	0	1	16	22	4		0	7	45
<b>TOTAL UCT Prague*****</b>	5	16	68	176	5	9	1	43	323
Including women	0	2	22	25	5	2	0	7	58

The table includes only university units, units carrying out teaching, research, development, innovation, artistic, and other creative activities, and units responsible for information services or technology transfer. The table excludes data relating to administration, entertainment, sports, accommodation, catering, and operations.

Note: \* = Only faculties and their subordinate units (as per the above description)

Note: \*\* = As per Section 25, Article 2 of the Higher Education Act.

Note: \*\*\* = Units carrying out teaching, research, development, innovation, artistic, and other creative activities and units responsible for information services or technology transfer as per Section 22, Paragraph c) of Act No. 111/1998 Coll.

Note: \*\*\*\* = The listed and other similar units carrying out teaching, research, development, innovation, artistic, and other creative activities and units subordinate to a university department responsible for information services or technology transfer as per Section 22, Paragraph c) of Act No. 111/1998 Coll.

Note: \*\*\*\*\* = The figure is a **simple sum of cells** that may not correspond to the actual headcount (a person may hold multiple positions at UCT or its faculties).

Table 6.5: Faculty and researchers – foreign nationals (full-time equivalent\*\*\*\*\*)

UCT Prague	Faculty						Researchers and specialists**			Other employees*****
	Professors	Associate professors	Assistant professors	Assistants	Lecturers	Scientific, research, and development staff taking part in teaching	Postdoctoral fellows***	Researchers other than classified in the above categories	Other scientific, research, and development staff****	
<b>FCT</b>	<b>0,5</b>	<b>0</b>	<b>3,03</b>	<b>0</b>	<b>0</b>	<b>19,6</b>	<b>12,92</b>	<b>12,4</b>	<b>0</b>	<b>0,9</b>
<i>Including: Germany</i>	0	0	0	0	0	0	0	1	0	0
<i>Poland</i>	0	0	0	0	0	0	0	0	0	0
<i>Austria</i>	0	0	0	0	0	0	0,6	0	0	0
<i>Slovakia</i>	0	0	1	0	0	3,2	0	1,9	0	0
<i>Other EU countries</i>	0,5	0	0	0	0	4,5	1,4	3,1	0	0,9
<i>Other non-EU countries</i>	0	0	2,03	0	0	11,9	10,92	6,4	0	0
<i>Female employees (regardless of nationality)</i>	0	0	3	0	0	12,2	7,35	3,2	0	0
<b>FET</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>4,3</b>	<b>2</b>	<b>0,45</b>	<b>0</b>	<b>0</b>
<i>Including: Germany</i>	0	0	0	0	0	0	0	0	0	0
<i>Poland</i>	0	0	0	0	0	0	0	0	0	0
<i>Austria</i>	0	0	0	0	0	0	0	0	0	0
<i>Slovakia</i>	0	0	2	0	0	0,5	0	0	0	0
<i>Other EU countries</i>	0	0	0	0	0	0	0	0	0	0
<i>Other non-EU countries</i>	0	0	1	0	0	3,8	2	0,45	0	0
<i>Female employees (regardless of nationality)</i>	0	0	1	0	0	2,2	1	0	0	0
<b>FFBT</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>6,9</b>	<b>0</b>	<b>1,15</b>	<b>0</b>	<b>1,02</b>
<i>Including: Germany</i>	0	0	0	0	0	0	0	0	0	0
<i>Poland</i>	0	0	0	0	0	0	0	0	0	0
<i>Austria</i>	0	0	0	0	0	0	0	0	0	0
<i>Slovakia</i>	0	0	1	0	0	1	0	0,3	0	1,02
<i>Other EU countries</i>	0	0	1	0	0	0,7	0	0	0	0
<i>Other non-EU countries</i>	0	0	0	0	0	5,2	0	0,85	0	0
<i>Female employees (regardless of nationality)</i>	0	0	0	0	0	4,9	0	1,15	0	1
<b>FCE</b>	<b>1</b>	<b>2</b>	<b>6,5</b>	<b>0</b>	<b>0</b>	<b>12,6</b>	<b>1,25</b>	<b>0,65</b>	<b>0</b>	<b>1</b>
<i>Including: Germany</i>	0	0	0	0	0	0	0	0	0	0
<i>Poland</i>	0	0	1	0	0	0	0	0	0	0
<i>Austria</i>	0	0	0	0	0	0	0	0	0	0
<i>Slovakia</i>	1	1	3,5	0	0	1,5	0,25	0	0	1
<i>Other EU countries</i>	0	0	0	0	0	2	0	0	0	0
<i>Other non-EU countries</i>	0	1	2	0	0	9,1	1	0,65	0	0
<i>Female employees (regardless of nationality)</i>	0	1	4,5	0	0	6,3	1	0,65	0	1
<b>Total in other units</b>	<b>0,5</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>1,6</b>	<b>0</b>	<b>3,4</b>	<b>0</b>	<b>3,5</b>
<i>Including: Germany</i>	0	0	0	0	0	0	0	0	0	0
<i>Poland</i>	0	0	0	0	0	0	0	0	0	0
<i>Austria</i>	0	0	0	0	0	0	0	0	0	0
<i>Slovakia</i>	0,5	0	2	0	0	0	0	0	0	0
<i>Other EU countries</i>	0	0	0	0	0	0	0	0	0	0
<i>Other non-EU countries</i>	0	0	5	0	0	1,6	0	3,4	0	3,5
<i>Female employees (regardless of nationality)</i>	0	0	1	0	0	0,6	0	3,4	0	2,9
<b>UCT TOTAL</b>	<b>2</b>	<b>2</b>	<b>21,53</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>16,17</b>	<b>18,05</b>	<b>0</b>	<b>6,42</b>
<i>Including: Germany</i>	0	0	0	0	0	0	0	1	0	0
<i>Poland</i>	0	0	1	0	0	0	0	0	0	0
<i>Austria</i>	0	0	0	0	0	0	0,6	0	0	0
<i>Slovakia</i>	1,5	1	9,5	0	0	6,2	0,25	2,2	0	2,02
<i>Other EU countries</i>	0,5	0	1	0	0	7,2	1,4	3,1	0	0,9
<i>Other non-EU countries</i>	0	1	10,03	0	0	31,6	13,92	11,75	0	3,5
<i>Female employees (regardless of nationality)</i>	0	1	9,5	0	0	26,2	9,35	8,4	0	4,9

Note: \* = A faculty or another university unit delivering an accredited study program.

Note: \*\* = Researcher means a scientist other than a faculty member as per Section 70 of Act No. 111/1998 Coll. on Higher Education.

Note: \*\*\* = A person employed by a research institution or a university during five years after award of a Ph.D. or equivalent degree. He/she has a specific assignment in a research team of the institution, usually under the supervision of senior researchers, and publishes research results both independently and as part of the team. He/she works under an employment agreement for the maximum of three consecutive fixed terms of one to three years. He/she receives a salary as per the remuneration system of the institution, and is eligible for bonuses under research grant projects.

Note: \*\*\*\* = Other scientific, research, and development staff include technicians and specialists who are not directly involved in research, but are indispensable for research work, such as staff in charge of the research facility's operations.

Note: \*\*\*\*\* = Other employees include all other workers that are not directly involved in teaching and research. They include administrative, maintenance, and other employees.

Note: \*\*\*\*\* = Full-time equivalent refers to the ratio of total number of hours worked from January 1 to December 31 (by all workers in the reported category, including DPC work performance contracts, excluding DPP casual work contracts) and the total annual working time per full-time employee.



Table 6.6: Newly appointed associate professors and professors (persons)				
UCT Prague	Number of persons			Average age of new appointees***
	UCT Prague*		Core UCT faculty members appointed at another university**	
	Total	Including core UCT faculty		
<i>FCT</i>				
Professors appointed in 2022	2	2	1	47
Including women	0	0	1	53
Associate professors appointed in 2022	2	2	0	41,5
Including women	0	0	0	-
<i>FET</i>				
Professors appointed in 2022	0	0	1	59
Including women	0	0	0	-
Associate professors appointed in 2022	0	0	0	-
Including women	0	0	0	-
<i>FFBT</i>				
Professors appointed in 2022	2	1	0	47,5
Including women	0	0	0	-
Associate professors appointed in 2022	5	3	0	42,3
Including women	4	2	0	46,7
<i>FCE</i>				
Professors appointed in 2022	0	0	0	-
Including women	0	0	0	-
Associate professors appointed in 2022	2	2	0	43,5
Including women	0	0	0	-
<i>Other units other than faculties</i>				
Professors appointed in 2022	0	0	0	-
Including women	0	0	0	-
Associate professors appointed in 2022	1	1	0	49
Including women	0	0	0	-
TOTAL professors	4	3	2	45,7
Including women	0	0	1	53
TOTAL associate professors	10	8	0	44,8
Including women	4	2	0	46,7

Note: \*= Including all habilitations and appointments in the calendar year and at the university, regardless of whether the newly appointed professors and associate professors are core faculty of the university.

Note: \*\*= Number of professors and associate professors constituting core UCT faculty appointed at another university.

Note: \*\*\* = The average age is calculated from the total number of new appointees at UCT Prague (faculty or total number).

Note: \*\*\*\* = A faculty or another university unit delivering an accredited study program.

**Table 7.1: Participation in international cooperation programs (regardless of the source of funding)**

UCT Prague	H2021/ Seventh European Commission Framework Program		Other	TOTAL
	TOTAL	Including Marie-Curie Actions		
Projects*	19	4	15	34
Outgoing students**	5		132	137
Incoming students***	2		338	340
Outgoing faculty members and researchers****	1		635	636
Incoming lecturers and researchers*****	4		192	196
Subsidy in CZK thousands*****	32 056,11	4 190,11	14 725,78	46781,90

Note: \* = Projects active in the reported year.

Note: \*\* = Outgoing students means students who completed a foreign internship in 2022, including students whose internship began in 2021. Only internships lasting more than four weeks (28 days) are included. Where applicable, internships with a different duration are listed in the notes for the table.

Note: \*\*\* = Incoming students means students who completed an internship at UCT in 2022, including students whose internship began in 2021. Only internships lasting more than four weeks (28 days) are included. Where applicable, internships with a different duration are listed in the notes for the table.

Note: \*\*\*\* = Outgoing faculty members means persons who completed a foreign internship in 2022, including faculty members whose internship began in 2021.

Note: \*\*\*\*\* = Incoming lecturers means persons who completed an internship at UCT in 2022, including lecturers whose internship began in 2021.

Note: \*\*\*\*\* = The figures represent total project funding, including co-funding by MEYS.

Table 7.2: Mobility of students, academic staff, and other workers by country***** (regardless of the source of funding) (unprocessed raw data)										
UCT Prague	Outgoing students*			Incoming students**		Outgoing faculty members***	Incoming lecturers****	Other outgoing workers***	Other incoming workers****	TOTAL for the country
Country	Total	Graduate internships (from the	Virtual* (from the total)	Virtual* (from the total)	Total					
Islamic Republic of Afghanistan										0
Republic of Albania										0
People's Democratic Republic of Algeria										0
United States Virgin Islands										0
Principality of Andorra										0
Republic of Angola										0
Anguilla										0
Antarctica										0
Antigua and Barbuda										0
Republic of Argentina										0
Republic of Armenia										0
Aruba										0
Commonwealth of Australia						1				1
Republic of Azerbaijan							2			2
Commonwealth of the Bahamas										0
Bailiwick Guernsey										0
Bailiwick Jersey										0
People's Republic of Bangladesh							1			1
Barbados										0
Kingdom of Belgium	7				11	12				30
Belize										0
Republic of Belarus							1			1
Republic of Benin										0
Bermuda										0
Kingdom of Bhutan										0
Bolivarian Republic of Venezuela										0
Bonaire, Sint Eustatius and Saba										0
Bosnia and Herzegovina							1			1
Republic of Botswana										0
Bouvet Island										0
Federative Republic of Brazil						2				2
British Virgin Islands										0
British Indian Ocean Territory										0
Republic of Bulgaria						2				2
Burkina Faso										0
Republic of Burundi										0
Cook Islands										0
Republic of Chad										0
Montenegro						3				3
Czech Republic										0
People's Republic of China					2		7			9
Republic of China (Taiwan)	1				3	2				6
Kingdom of Denmark	3				3	6				12
Democratic Republic of São Tomé and Príncipe										0
Democratic Republic of Timor-Leste										0
Mayotte Department										0
Commonwealth of Dominica										0
Dominican Republic										0
Republic of Djibouti										0
Arab Republic of Egypt					1	2	2			5
Republic of Ecuador										0
Republic of Estonia	2				3	9				14
Federal Democratic Republic of Ethiopia										0
Faroe Islands										0
Falkland Islands (Islas Malvinas)										0
Federation of Saint Kitts and Nevis										0
Federated States of Micronesia										0
Republic of Fiji										0
Republic of the Philippines										0
Republic of Finland	7				3	3				13
French Guiana										0
French Southern and Antarctic Territories										0
French Polynesia										0
French Republic	13				102	60	1			176
Gabonese Republic										0
Republic of the Gambia										0
Republic of Ghana							3			3
Gibraltar										0
Grenada										0
Greenland										0
Georgia										0
Republic of Guatemala										0
Republic of Guinea										0
Cooperative Republic of Guyana										0
Heard Island and McDonald Islands										0
Republic of Honduras										0
Republic of Chile										0
Republic of Croatia	1				5	13	3			22
Republic of India	1				1		23			25
Republic of Indonesia					14					14
Republic of Iraq										0
Islamic Republic of Iran							7			7
Ireland	1					10				11
Republic of Iceland						1				1
Republic of Italy	13				16	63	5			97
Jamaica										0
Japan	1				1	6				8
Republic of Yemen										0
Republic of South Africa										0
Republic of South Sudan										0
South Georgia and the South Sandwich Islands										0
Hashemite Kingdom of Jordan										0
Cayman Islands										0
Kingdom of Cambodia										0
Republic of Cameroon							1			1
Canada						18				18
Republic of Cape Verde										0
Republic of Kenya										0
Republic of Colombia										0
Union of the Comoros										0
Democratic Republic of the Congo										0
Republic of Congo										0
Democratic People's Republic of Korea										0
Republic of Korea	1					3	2			6
Republic of Kosovo							1			1
Republic of Costa Rica					1		1			2
Kingdom of Bahrain										0
Kingdom of Saudi Arabia										0
Kingdom of Tonga										0
Republic of Cuba										0
State of Kuwait										0
Republic of Cyprus						1				1
Republic of Kyrgyzstan										0
Lao People's Democratic Republic										0
Kingdom of Lesotho							1			1
Republic of Lebanon							1			1
Republic of Liberia										0
State of Libya										0
Principality of Liechtenstein										0
Republic of Lithuania	3				4	3				10
Republic of Latvia										0
Grand-Duchy of Luxembourg										0
Republic of Madagascar						2				2
Hungary					2	9	1			12
Malaysia						1				1
Republic of Malawi										0
Republic of Maldives							1			1
Republic of Malta										0
Kingdom of Morocco										0
Martinique										0
Republic of Mauritius										0
Islamic Republic of Mauritania										0
United States Minor Outlying Islands										0
Plurinational State of Bolivia										0
Republic of Moldova							1			1
Principality of Monaco										0
Mongolia										0
Montserrat										0

Republic of Mozambique										0
Republic of Namibia										0
Federal Democratic Republic of Nepal							1			1
Independent State of Papua New Guinea										0
Independent State of Samoa										0
Federal Republic of Nigeria							1			1
Republic of the Niger										0
Republic of Nicaragua										0
Niue										0
Netherlands Antilles										0
Netherlands	3				2	17				22
Kingdom of Norway	9				1	2				12
New Caledonia										0
New Zealand										0
Isle of Man										0
Turks and Caicos Islands										0
Islamic Republic of Pakistan							4			4
Palestine										0
Palestinian Autonomous Area										0
Republic of Panama										0
Republic of Panama						2				2
Republic of Paraguay										0
Republic of Peru							1			1
Pitcairn Islands										0
Republic of Poland					5	34	6			45
Commonwealth of Puerto Rico										0
Republic of Portugal	10				20	42	1			73
Province of Åland										0
Republic of Austria	10				3	3				16
Guadeloupe Region										0
Réunion Region										0
Republic of Guinea-Bissau										0
Republic of Haiti										0
Republic of Kazakhstan							4			4
Republic of Kiribati										0
Republic of Mali										0
Republic of the Marshall Islands										0
Republic of the Union of Myanmar										0
Republic of Nauru										0
Republic of Palau										0
Republic of Ivory Coast										0
Republic of Equatorial Guinea										0
Republic of San Marino										0
Republic of North Macedonia					1					1
Republic of Sierra Leone										0
Republic of Tajikistan										0
Republic of Trinidad and Tobago										0
Republic of Uzbekistan						2				2
Republic of Vanuatu										0
Romania					1					1
Russian Federation					1	1	29			31
Republic of Rwanda										0
Hellenic Republic	1				4	11	3			19
Sahrawi Arab Democratic Republic										0
Republic of El Salvador										0
Republic of Senegal						1				1
Republic of Seychelles										0
Republic of Singapore						1				1
Slovak Republic					7	40	22			69
Republic of Slovenia					3	3				6
Federal Republic of Somalia										0
United Kingdom of Great Britain and Northern Ireland	1				4	24	4			33
United States of America	8				2	44	1			55
United Mexican States						3	2			5
Commonwealth of the Northern Mariana Islands										0
Territorial Collectivity of Saint-Barthélemy										0
Saint Martin										0
Federal Republic of Germany	10				8	79	2			99
Republic of Serbia						4				4
Serbia and Montenegro										0
Serbia and Montenegro										0
Brunei Darussalam										0
State of Eritrea										0
State of Israel	1					3	1			5
State of Qatar										0
United Arab Emirates	1									1
Central African Republic										0
Republic of Sudan										0
Republic of Sudan										0
Sultanate of Oman						1				1
Republic of Suriname										0
Saint Helena Ascension and Tristan da Cunha										0
Saint Lucia										0
Saint Martin (NL)										0
St Vincent and the Grenadines										0
Kingdom of Swaziland										0
Syrian Arab Republic							1			1
Salomon Islands										0
Kingdom of Spain	12				33	43	5			93
Svalbard and Jan Mayen										0
Democratic Socialist Republic of Sri Lanka										0
Kingdom of Sweden	4				2	11				17
Swiss Confederation	5					25				30
United Republic of Tanzania										0
Territory of Guam										0
Territory of the Wallis and Futuna Islands										0
Kingdom of Thailand	3				1					4
Tokelau										0
Republic of Togo										0
Republic of Tunisia					1		2			3
Republic of Turkey					15	6	4			25
Turkmenistan										0
Tuvalu										0
Republic of Uganda										0
Ukraine					52		31		6	89
Oriental Republic of Uruguay										0
Territory of American Samoa										0
Territory of the Cocos (Keeling) Islands										0
Norfolk Territory										0
Territory of Christmas Island										0
Territorial Communities of Saint-Pierre-et-Miquelon										0
Vatican City State										0
Socialist Republic of Vietnam						1	1			2
Republic of Zambia										0
Curaçao										0
Republic of Zimbabwe										0
Hong Kong Special Administrative Region of the People's Republic of China										0
Macao Special Administrative Region of the People's Republic of China										0
Other										0
Total	132	0	0	0	338	635	192	0	6	1303

Note: \* = Outgoing students means students who underwent (completed) a foreign internship in 2022, including students whose internship began in 2021. Only internships lasting at least two weeks (14 days) are included.

Note: \*\* = Incoming students means students who completed an internship in 2022, including students whose internship began in 2021. Only internships lasting at least two weeks (14 days) are included.

Note: \*\*\* = Outgoing faculty and other staff means persons who underwent (completed) a foreign internship in 2022, including staff whose internship began in 2021. Only internships lasting at least five (5 days) are included.

Note: \*\*\*\* = Incoming lecturers/other workers means persons who completed an internship at UCT in 2022, including persons whose internship began in 2021. Only internships lasting at least five (5 days) are included.

Note: \*\*\*\*\* = Table 7.2 Mobility of students, academic staff, and other workers by country lists all countries to facilitate data processing by MEYS and to prevent unnecessary workload for universities. If there is no mobility vis-à-vis a country, leave the cell blank.

Note: \*\*\*\*\* = Graduate internship means practicum at a foreign company or organization lasting 2-12 months, starting after graduation and ending within one year after graduation. Graduate internships are carried out based on a trilateral agreement between the student, the posting university, and the host organization, institution, or company.

Note: ' ' = Enter zero if there was no virtual mobility at your university. If virtual mobility was carried out, but no information is available, provide a qualified estimate and provide a comment for the cell, cells, or column, such as 'qualified estimate'. If a qualified estimate cannot be provided, leave the cell blank and provide a comment for the cell, cells, or column, such as n/a.

Table 7.3: Graduate mobility** (number and percentage of completed programs)										
UCT Prague	Bachelor's program		Master's program		Follow-up master's program		Doctoral program		TOTAL**	
	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number
<b>FCT</b>										
Percentage [%] and number of graduates who undertook foreign internship lasting at least 14 days during their study program	0,0%	0,0	-	-	9,2%	12,0	10,0%	2,0	5,6%	14,0
Percentage [%] and number of doctoral graduates who undertook foreign internship lasting at least one month (30 days)							10,0%	2,0	10,0%	2,0
<b>FET</b>										
Percentage [%] and number of graduates who undertook foreign internship lasting at least 14 days during their study program	16,7%	3,0	-	-	41,5%	22,0	40,0%	4,0	35,8%	29,0
Percentage [%] and number of doctoral graduates who undertook foreign internship lasting at least one month (30 days)							40,0%	4,0	40,0%	4,0
<b>FFBT</b>										
Percentage [%] and number of graduates who undertook foreign internship lasting at least 14 days during their study program	0,0%	0,0	-	-	11,0%	17,0	16,7%	4,0	6,5%	21,0
Percentage [%] and number of doctoral graduates who undertook foreign internship lasting at least one month (30 days)							16,7%	4,0	16,7%	4,0
<b>FCE</b>										
Percentage [%] and number of graduates who undertook foreign internship lasting at least 14 days during their study program	5,9%	6,0	-	-	11,8%	12,0	20,0%	5,0	8,8%	18,0
Percentage [%] and number of doctoral graduates who undertook foreign internship lasting at least one month (30 days)							20,0%	5,0	20,0%	5,0
<b>Study across faculties</b>										
Percentage [%] and number of graduates who undertook foreign internship lasting at least 14 days during their study program	0,0%	0,0	-	-	5,6%	1,0	-	-	2,5%	1,0
Percentage [%] and number of doctoral graduates who undertook foreign internship lasting at least one month (30 days)							-	-	0,0%	0,0
<b>UCT Prague</b>										
Percentage [%] and number of graduates who undertook foreign internship lasting at least 14 days during their study program	2,3%	9,0	-	-	19,4%	64,0	19,0%	15,0	9,8%	88,0
Percentage [%] and number of doctoral graduates who undertook foreign internship lasting at least one month (30 days)							19,0%	15,0	19,0%	15,0
<b>UCT Prague</b>	2,3%	9,0	0,0%	0,0	19,4%	64,0	19,0%	15,0		

Note: \* = A faculty or another university unit delivering an accredited study program.

Note: \*\* = The total values per faculty (last cell in the top line for each faculty) and for UCT Prague (all empty fields per university in the Annual Report) are neither the sum nor the average of the values in the preceding rows and columns. The values of these cells need to be calculated separately.

**Table 8.1: Conferences (co-)organized by UCT Prague (number)**

UCT Prague	More than 60 participants		International conferences**	
	In-person***	Virtual***	In-person***	Virtual***
<i>FCT</i>	3	0	3	0
<i>FET</i>	6	1	0	0
<i>FFBT</i>	7	0	2	5
<i>FCE</i>	1	0	1	0
<i>Total in other units</i>	1	0	1	0
<b>TOTAL</b>	<b>18</b>	<b>1</b>	<b>7</b>	<b>5</b>

Note: \* = A faculty or another university unit delivering an accredited study program

Note: \*\* = A conference is considered international if it features at least one foreign speaker and if all papers are presented in at least one of the following languages – English, French, German, or the language applicable to the specialization of the conference, such as the featured language of a philology conference.

Note: \*\*\* = A conference is classified in the category if attended using the applicable form by more than 50% of participants (estimate). The categories are mutually exclusive.



**Table 8.2: Experts from the application sector\* taking part in teaching and practicum under accredited study programs (number)**

UCT Prague	Persons employed by UCT or its unit			Persons not employed by UCT or its unit		
	Teaching staff	Thesis supervisors	Practicum supervisors***	Teaching staff	Thesis supervisors	Practicum supervisors***
<b>FCT**</b>	<b>31</b>	<b>1</b>	<b>1</b>	<b>21</b>	<b>4</b>	<b>79</b>
Including women	14	0	0	7	1	32
<b>FET**</b>	<b>22</b>	<b>9</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>3</b>
Including women	10	5	0	1	0	1
<b>FFBT**</b>	<b>21</b>	<b>8</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>106</b>
Including women	9	3	0	3	0	67
<b>FCE**</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>14</b>	<b>11</b>	<b>36</b>
Including women	2	1	0	2	4	15
<b>Study across faculties**</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>
Including women	2	1	0	4	0	0
<b>TOTAL</b>	<b>88</b>	<b>20</b>	<b>2</b>	<b>78</b>	<b>17</b>	<b>224</b>
Including women	37	10	0	17	5	115

Note: \* = Experts from the application sector taking part in teaching one third or more of the number of lessons allocated to a course or supervising student theses. Experts who are core UCT/faculty employees must have employment corresponding to the same FTE percentage outside the UCT/faculty.

Note: \*\* = A faculty or another university unit delivering an accredited study program/field of study.

Note: \*\*\* = Persons directly responsible for student practicum.

**Table 8.3: Study fields/programs\*\*\*\* with mandatory practicum\*\*\* lasting one month or more\* (number)**

	Number of study fields/programs****	Active enrollments					
		Bachelor's program		Master's program		Follow-up master's program	
		Academic profile	Professional profile	Academic profile	Professional profile	Academic profile	Professional profile
<b>UCT Prague</b>							
<i>FCT</i>	5	0	0			112	
<i>FET</i>	2	0	0			14	
<i>FFBT</i>	8	0	0			176	
<i>FCE</i>	2	0	0			48	
<i>Study across faculties</i>	1	0	0			7	
<b>TOTAL</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>357</b>	<b>0</b>

Note: \* = Practicum duration may be shorter, but its total duration must be no shorter than one month.

Note: \*\* = A faculty or another university unit delivering an accredited study program/field of study.

Note: \*\*\* = Practicum is mandatory if required under the study program accreditation; it can be part of a subject or a separate subject. Practicum consists of specialized professional training.

Note: \*\*\*\* = Figure pertaining to the lowest accredited unit/specialization, or for the study program if it is not divided into specializations.

Table 8.4: Transfer of knowledge and results of research into practice				
UCT Prague				
	Czech Republic	Other countries	TOTAL contracts	TOTAL revenues
New spin-off/start-up undertakings*			1	
Filed patent applications	7	6	13	
Granted patents**	1	2	3	
Registered utility models	29	0	29	
Licensing agreements in effect as at December 31	17	1	18	
New licensing agreements	2	0	2	500 111 Kč
Contract research***, consulting and counselling***			1573	229 789 372 Kč
Paid training courses for employees of application sector organizations***			238	27 885 811 Kč

Summary information for Table 8.4		
New licensing, contract research, consulting, counselling contracts, and paid training courses for employees of application sector organizations	Total contracts	Total revenues
	1813	258 175 294 Kč
	Average revenues per contract	
	142 402 Kč	

Note: \*= New spin-off/start-up companies supported by the university in 2022 (number).

Note: \*\*= In regard to European patents, only one country is reported under 'Other countries', regardless of the number of designated countries.

Note: \*\*\*= The definitions of the revenue- and value-related items in the table must correspond to the 2022 Annual Financial Report for Public Higher Education Institutions (Table 6). Private higher education institutions provide the relevant data at their discretion.

**Licensing agreement** is defined as the grant of rights, to the agreed extent and in the agreed territory, to obtain or to provide a license providing one of the forms of protection of intellectual and industrial property. Licensing agreements are entered into in writing for patented inventions, utility models, industrial designs, semiconductor topography, new plant varieties, new animal breeds, and protected trademarks. The licensor authorizes the licensee to exercise intellectual and industrial property rights to the agreed extent and in the agreed territory, and the licensee undertakes to pay licensing fees or another form of compensation. The purpose of a licensing agreement is to lay down a legal framework between the licensor and the licensee for the use of copyrights or intellectual property rights.

**Contract research** is commissioned based on cooperation (interaction) that primarily meets specific research needs of entities from the application sector. Contract research is conducted by a university for a fee based on the client's needs and requirements. Contract research typically involves large-scale projects, original research, and a written report. It is usually commissioned by a specific organization and serves its needs. Funds paid by the client from the application sector for the research may come from public or private sources. Cases where a higher education institution receives special-purpose grant for applied research are not considered contract research.

**Paid training courses** improve the qualifications of employees of application sector organizations, such as training courses organized by companies. Application sector organizations are entities whose main focus is other than research and development. They include business corporations, government authorities, nonprofit organizations, and others, provided that research is not the primary purpose of their operations. Revenues are included from customized training courses delivered based on an agreement with an organization for its employees. The reported figures concern courses created based on an agreement with the client for the purpose of training its staff, as opposed to costs incurred by trainees attending training courses who are employed by a company meeting the above definition.

**Consulting and counselling services** consist of providing the client with expert advice, opinion, or task that largely depends on the university's expertise. Consulting and counselling services are provided by the university to the client for payment on a commercial basis. The principal purpose of consultation services is allowing the client to understand a certain phenomenon, as opposed to creating new knowledge.

**Tab. 12.1: Accommodation, boarding**

<b>UCT Prague</b>	<b>Number</b>
Total capacity of the school's dormitories	<b>1 651</b>
Number of beds in rented facilities	<b>0</b>
Number of filed accommodation applications/reservations as at 31/12/2022	<b>2 233</b>
Number of satisfied accommodation applications/reservations as at 31/12/2022	<b>1 782</b>
Number of beddays in the year 2022	<b>467 409</b>
Number of main courses served in the year 2022 to students	<b>35 857</b>
Number of main courses served in the year 2022 to the school's employees****	<b>0</b>
Number of main courses served in the year 2022 to other clients	<b>6 565</b>

Note: \* = Number of agreements terminated during the year because of the government's anti-pandemic restrictions applied to accommodation.

Note: \*\* = Number of agreements amended during the year because of the government's anti-pandemic restrictions applied to accommodation. This might be not a formal amendment, but also the performance - typically, reduction in price for accommodation if the student keeps the accommodation but does not physically use it.

Note: \*\*\* = Number of agreements which remained in force because they had an exception from the ban on accommodation resulting from the government's anti-epidemic restrictions applied to accommodation. This is the case of e.g. students who were ordered mandatory work, volunteers, students who declared the dormitory to be their home address, etc.

Note: \*\*\*\*= Not registered because of transfer to payment of a monthly lump sum as meal allowance to employees.

**Tab. 12.2 Libraries**

<b>UCT Prague</b>	<b>Number</b>
New library items for the year	787
<i>of which</i> physical items	682
<i>of which</i> e-books in permanent purchase	105
Library fund in total	89 238
<i>of which</i> physical items	77 211
<i>of which</i> e-books in permanent purchase	12 027
Number of subscribed periodicals:	
- physical	39
- electronic (estimate)*	15
- in both forms**	0

Note: \* = These are only periodicals to which the library subscribes itself (or which the library receives as a gift or exchange) in the paper form or electronic version.; it does not include other periodicals to which library users have access within full-text resources consortia.

Note: \*\* = The number of titles in both forms include only the titles where both forms are paid separately (i.e.. if the library subscribes to a print and the electronic version is a free bonus, only the printed form is reported, etc. ).

Note: = Electronic items include only individually purchased titles, not books and periodicals which are part of "package" subscriptions from publishers of professional and scientific literature.