The University of Chemistry and Technology, Prague is a natural centre of first-rate study and research in the area of chemistry in the Czech Republic and is one of the country’s largest educational and research institutions focused on technical chemistry, chemical and biochemical technologies, material and chemical engineering, food chemistry, and environmental studies.

UCT Prague was officially established in 1952, although its origins date back to 1807 when the inaugural course in chemistry was delivered at the then ‘Prague Polytechnic’ as a response to the rapid industrialisation taking place in the 18th century.

In keeping with its polytechnic roots, UCT emphasises hands-on, practical training and students spend a significant amount of time on laboratory assignments, led by professors. The faculty-to-student ratio at UCT is very small.

Among the most famous graduates are Nobel Prize Winner Vladimír Prelog and Otto Wichterle, the inventor of contact lenses.
SCIENCE AND RESEARCH

UCT Prague has long been one of the Czech Republic’s most productive science and research higher education institutions. The volume of creative activities focused on science, research, and innovation represents more than 50% of the university’s annual budget. That means over 700 million CZK, on average.

Currently UCT Prague boasts a number of excellent experts such as Jana Hajšlová, member of the EU Advisory Group “Food Quality and Safety”; František Štěpánek, who has been awarded an ERC grant; Martin Pumera, head of the excellent team for advanced functional nanorobots.

UCT Prague researchers were very successful within the European Community framework programme, HORIZON 2020, and are actively involved in developing many new research projects and collaborations.

The university’s extensive publication activity focuses on articles in scientific journals, namely those with high impact factors, monographs, and chapters in monographies. According to the number of publications cited in the WoS and Scopus databases, UCT Prague ranks among the top 6 higher education institutions in the Czech Republic. If calculated per faculty member, it ranks even higher – among the 3 most productive higher education institutions.

UCT Prague as a research workplace is engaged in intensive collaboration with industrial partners. Research cooperation in projects has resulted in a number of applied outcomes such as patents, utility models, and implemented technical projects.

Notable prior efforts include:

**RECOBA**, Prof. Juraj Kosek, Cross-sectorial real-time sensing, advanced control and optimisation of batch processes saving energy and raw materials

**PARTIAL-PGMs**, Assoc. Prof. Petr Kočí, Development of novel, high performance hybrid twc/gpf automotive after treatment systems by rational design: Substitution of pgms and rare earth materials

**SElySOS**, Prof. Karel Bouzek, Development of new electrode materials and understanding of degradation mechanisms on Solid Oxide High Temperature Electrolysis Cells

**SuPER-W**, Prof. Pavel Jeníček, Assoc. Prof. Jan Bartáček, Sustainable Product, Energy and Resource Recovery from Wastewater

**Food Quality Projects**: FoodSmartphone, Smartphone analyzers for on-site testing of food quality and safety; MultiCoop, Multidisciplinary approach to strengthen cooperation and establish novel platform for comprehensive assessment of food and feed safety; AUTHENT-NET – Food Authenticity Research Network, Prof. Jana Hajšlová, Monika Tomaniová, PhD

The Dagmar Procházková Fund to support scientific projects of academic workers with international experience

The highest percentage of PhD students to all students of any higher education institution in the Czech Republic.
UCT Prague was the first Czech university authorised to provide the Eurobachelor degree. As its name indicates, this prestigious recognition certifies the quality of UCT Prague bachelor studies at the European level.

Over 40 programmes have been accredited in the areas of chemistry, chemical and biochemical technologies, material and chemical engineering, food industry, and environmental studies. Some of the programmes are unique within the Czech Republic and essential to its future in the development of water technologies, refinery and petrochemical technologies, pharmaceutical engineering, glass and ceramics production technologies, brewery technologies, and food safety.

Over 4,000 students are currently enrolled at the university, including an average of 700 PhD students. Every year, 500 bachelor, 400 master, and 90 doctoral students graduate.

UCT Prague currently cooperates with more than 200 academic institutions around the globe both in student exchanges and research activities.

Traineeship positions at 30 Departments with high-tech equipped laboratories.

UCT Prague has more than 4,000 students with an extraordinary number of PhD students: 700, on average.

University graduates have an exceptionally favourable position on the labour market in the private and public sector alike and are often hired as lab directors, managers, company technologists or scientists in their respective fields.

Every year, 500 bachelor, 400 master, and 90 doctoral students graduate.
ATHENS
UCT Prague organizes three week-long intensive courses for students from European universities.

STUDY
- 5 Double Degree master programmes (Switzerland, France, Italy)
- 2 Multiple Degrees master programmes (ERASMUS MUNDUS in Membrane Engineering = EM3E-4SW; ERASMUS MUNDUS International Master of Science in Environmental Technology and Engineering = IMETE)
- Doctoral Multiple Degrees (ERASMUS MUNDUS Doctorate in Membrane Engineering = EUDIME)
- SuPER-W – European Joint Doctorate programme for highly motivated young researchers
- Doctoral “cotutelle” study (dissertation thesis under double supervision)

DEGREE PROGRAMMES in English
- 1 bachelor degree programme (4 specialisations)
- 1 master degree programme (5 sub-programmes)
- 13 doctoral degree programmes
FACULTY OF CHEMICAL TECHNOLOGY
The Faculty of Chemical Technology encompasses both traditional technochemical and material-engineering fields of study. Its development is defined by solid performance in educational and research areas. It is impossible to imagine any further development of our civilization without new materials and technologies.

FACULTY OF ENVIRONMENTAL TECHNOLOGY
The Faculty of Environmental Technology is the faculty of “four elements”. For the future of humankind, it is important to protect the air, water, and earth as well as to search for new sources of energy – traditionally symbolised by fire.

FACULTY OF FOOD AND BIOCHEMICAL TECHNOLOGY
A solid grounding in chemistry is a fundamental prerequisite for the exploration of living nature and the field of food processing in connection with human health and quality of life, both key civilizational values.

FACULTY OF CHEMICAL ENGINEERING
The Faculty of Chemical Engineering is the most recently developed faculty at UCT Prague. It links mathematics, physics, and chemical engineering together and enables students to analyse, rationally describe, and professionally predict complex natural and technical processes whose utilization presents a challenge for future generations.
University graduates have an exceptionally favourable position on the labour market in the private and public sector alike and are often hired as lab directors, managers, company technologists or scientists in their respective fields.

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200+ COOPERATIONS

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ALUMNI PERSPECTIVE

Traineeship positions at 30 Departments with high-tech equipped laboratories.

HIGH-TECH EQUIPPED LABS