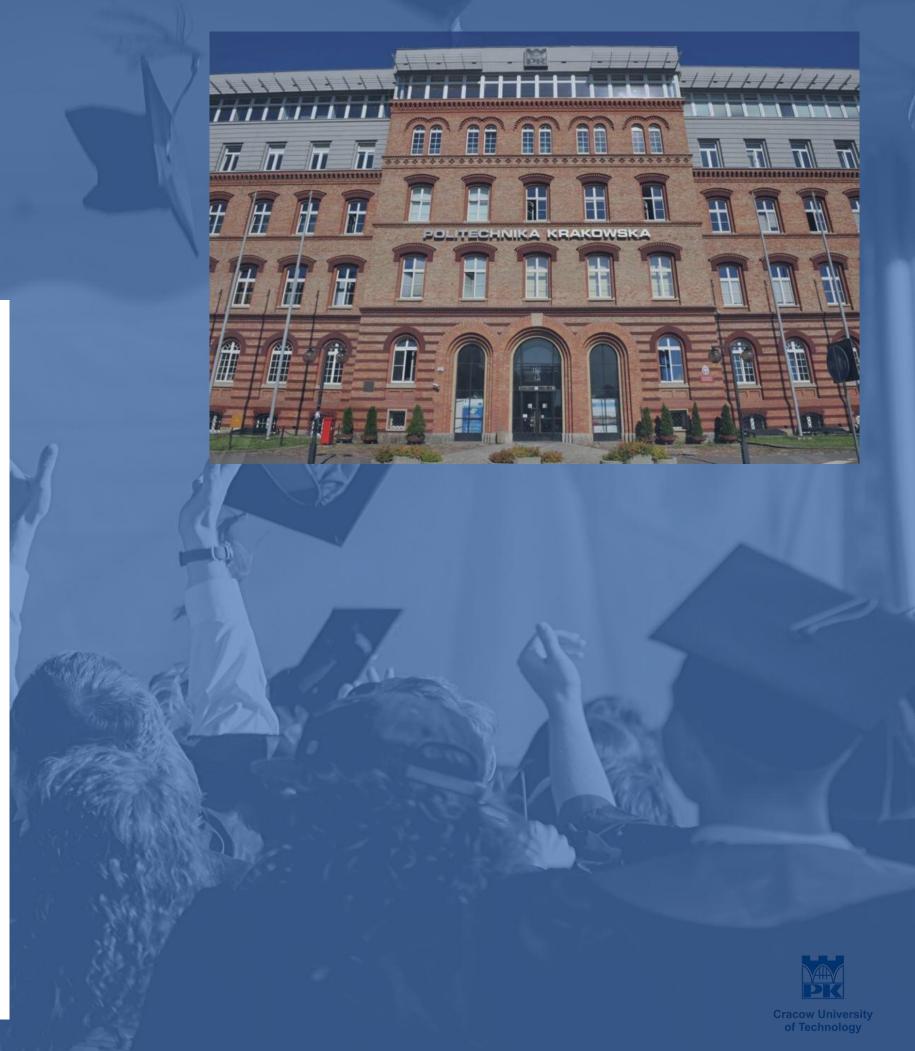


2019/2020



ABOUT CRACOW UNIVERSITY OF TECHNOLOGY

founded in 1945
almost 80 years old tradition of educating engineers
modernity and openness to change
strong position and well established brand
high quality education
almost 14,000 students (2019)
internationally recognized diplomas
more than 93% of CUT alumni who graduated from MSc studies, find a
job within half year from obtaining a diploma
almost 68% CUT alumni already work during their studies



CUT in international rankings

SHANGHAI RANKING'S GLOBAL RANKING OF ACADEMIC SUBJECTS 2019 - MECHANICAL ENGINEERING (#301 - 400)



QS WORLD UNIVERSITY RANKINGS
2019 QS WORLD UNIVERSITY RANKING (#801-



2019 EASTERN EUROPE AND CENTRAL ASIA UNIVERSITY RANKINGS (#83)



UI GREENMETRIC WORLD UNIVERSITY
RANKING 2018 (#572)
U-MULTIRANK







FACULTIES

- Faculty of Architecture
- Faculty of Chemical Engineering and Technology
- Faculty of Civil Engineering
- Faculty of Computer Science and Telecommunications
- Faculty of Electrical and Computer
 Engineering
- Faculty of Environmental and Power Engineering
- Faculty of Materials Engineering and Physics
- Faculty of Mechanical Engineering











Programmes in English

BAin Architecture - 7 semesters
BSc in Civil Engineering - 7 semesters
BSc in Mechanics and Machine Design - 7
semesters

MSc in Applied Physics - 3 semesters

MA in Architecture - 3 semesters

MSc in Chemical Technology [spec. Innovative
Chemical Technologies] - 3 or 4 semesters

MSc in Civil Engineering - 3 semesters
MSc in Computer Science - 4 semesters
MSc in Environmental and Land Engineering 3 semesters

MA in Landscape Architecture - 4 semesters
MSc in Mechanics and Machine Design - 3
semesters
MSc in Power Engineering - 3 semesters



Mechanics and Machine Design

BSc

7 semesters 210 ECTS credits 3500 EUR/year

This program is addressed for students who want to study contemporary problems in theoretical and applied mechanics with computer support.

The program contains of the following general topics: basis in mathematics and physics, theoretical mechanics and strength of materials, material science and machining of structures, informatics and numerical methods, mechanics of solids, fluid mechanics, thermodynamics, theory of vibration and acoustics, automatic control and mechatronics, intelligent materials.

MSc

3 semesters90 ECTS credits3500 EUR/year

Program title: Advanced Computational Mechanics The program is addressed for students who want to increase their knowledge in mechanics and computer application in design of structures (CAD, FEM), material design (CAMD), material selection (CAMS), manufacturing (CAM) and monitoring of machines.



Computer Science

MSc

4 semesters 120 ECTS credits 3000 EUR/year

Students will obtain professional knowledge in the area of data processing, broadcasting of information, production management, air-sea and land traffic control, communication, multimedia etc.

They will be able to work with project management, software engineering, implementation and management of modern informatics' systems. They will be also able to manage of data bases, internet services, computer systems and networks.

5 specializations

Applied Computer Science Computer Graphics and Multimedia

> Cybersecurity Data Science

Teleinformatics



Applied Computer Science

The competences obtained during studies at this specialization will allow the graduate to work as an IT specialist and to solve complex, interdisciplinary problems in the field of broadly defined information technology. The graduate will gain wide competences in the field of use of IT in areas such as mecganics and economics using latest Big Data, Machine Learning and High Performance Calculation Methods.

Computer Graphics and Multimedia

The aim of education at this specialization is to learn how to solve advanced issues of applying computer science in many disciplines where modeling of 3D scenes is needed. These include production support and production management systems, multimedia content and computer games creation systems, virtual and augmented reality.

Students are able to work on programs such as 3DS MAX, Maya, Softimage, AutoCAD, Inwentor, Revit, MATLAB and many more.



Cybersecurity

The graduate will gain wide competences in the field of IT and

telecommunications, as well as legal and organizational aspects, with an

emphasis on in-depth knowledge in the field of:
Strategic management of the company, in the context of cyber security threats and data protection requirements;
Security of Internet applications, computer systems, mobile applications and industrial data transmission systems;

Security in telecommunications networks and network traffic analysis;

Cloud computing security and Big Data processing and protection;

Methods of quantum computation and algebraic coding; Advanced techniques of cryptography and cryptanalysis.

Data Science

The aim of education at this specialization is to prepare the graduate to undertake independent activities at the most important IT areas, such as:

- Statistics and probability
- Data acquisition and processing
 - Multimedia data analysis
- Data mining methods and machine learning methods
- Statistical methods for analyzing large data sets
 - Advanced statistical and calculation methods



Teleinformatics

The aim of education at this specialization is to prepare the graduate to undertake independent activities at the most important IT areas, such as:

- Security of hardware and software
 - infrastructure
- Scalibility and reliability of solutions
- Analysis and elements of system design
- Design and administration of complex ICT
 - structures
 - System and application integration



ADMISSION PROCESS

Online application for BSc studies, 4 semesters studies and MSc in Applied Physics

May - 31st July

Online application for MSc studies October - 5th February





ACADEMIC YEAR

For BSc studies, 4 semesters studies and MSc in Applied

Physics
1st of October

For MSc studies
Last week of February





INTERNATIONAL COOPERATION





BILATERAL AGREEMENTS

With universities in more than 50 countries i.e. Australia, Brazil, China, Japan, USA

DOUBLE DEGREE AGREEMENTS

Fachhochschule Münster
Technische Universität Berlin
HAWK Hochschule Hildesheim
Hochschule für Technik und Wirtschaft

Dresden Jurij Fedkowicz National University in Chernivtsi Università di Cagliari

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