



UNIVERSITY OF AGRICULTURE
IN KRAKOW



HR EXCELLENCE IN RESEARCH



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NATURE**

**Z NATURY
NAJLEPSI**



Educational approaches at the University of Agriculture
in Krakow - preparing graduates for the strategic
challenges related to the future of agriculture

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Vice-rector for Cooperation

The ICA Rectors and Deans Forum in Zagreb
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Krakow

- ❑ Cultural and educational center,
- ❑ Every year over 130 000 students study at 25 institutions of higher education
- ❑ Capital of Małopolska Region
- ❑ Royal Capital City and necropolis of Polish Kings



University of Agriculture in Krakow (UAK)

- ❑ 8 faculties
- ❑ 36 main fields of study, 60 specializations, 31 post-graduate programs
- ❑ 1450 employees, including
- ❑ 730 academic staff





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UAK Faculties



Faculty of Agriculture
and Economics



Faculty of Forestry



Faculty of Animal Science



Faculty of Environmental
Engineering and Land Surveying



Faculty of Biotechnology
and Horticulture



Faculty of Production and
Power Engineering



Faculty of Food Technology



Faculty of Veterinary Medicine

7000 students

Effective preparation of UAK graduates for the strategic challenges in agriculture adopts the following educational approaches

1. **Study programmes and curricula innovation**

- **Integrative courses:** Development of programs that combine agriculture, environmental science, economics, and technology. This interdisciplinary approach helps students understand the complexities of agricultural systems.
- **Sustainability focus:** Embedding sustainability principles throughout the curricula, emphasizing the importance of sustainable practices in crop production, animal farming, resource management, and ecosystem conservation.



Effective preparation of UAK graduates for the strategic challenges in agriculture adopts the following educational approaches

2. **Technological integration**



- **Digital tools and analytics:** Incorporation training in data analysis, Geographic Information Systems (GIS), and precision agriculture technologies. Familiarity with these tools prepares students for modern agricultural practices.
- **Agri-tech collaborations:** Partner with technology companies to expose students to cutting-edge agricultural innovations, such as drones, sensors, and automation.

Effective preparation of UAK graduates for the strategic challenges in agriculture adopts the following educational approaches

3. **Industry collaboration**

- **Partnerships with agri-tech firms:** Collaboration with agricultural technology companies to provide students with practical experiences and exposure to cutting-edge tools and practices.
- **Engagement with policymakers:** Active participation in shaping agricultural policies by collaborating with government bodies, ensuring that research informs legislative decisions.





1. Study programmes and curricula innovation



e.g. [1] Faculty of Agriculture and Economics –
fields of study

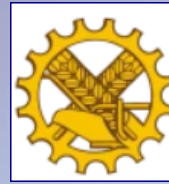
- Agriculture
- Environmental Protection
- Quality and Environmental Safety
- Economy
- Business Administration

New fields

- recruitment from the academic year 2024/2025:
- Bioeconomy
- Agrobiology
- Agricultural Advising and Administration
- Finance and Accounting



Agriculture – engineering and master degree programs



Faculty of Agriculture and Economics

Soil Science – international Erasmus Mundus program



Interdisciplinary Bioeconomy Studies
- master program



Business Economics - International
Master's Double Degree (Polish –
Slovakian)



<https://wre.urk.edu.pl/index/site/7350>

Studies taught in English

Postgraduate studies



Integrated Agricultural Production



Agriculture for Non-agricultural Graduates



Cultivation and Use of Herbal and Alternative Plants



Organic Agriculture, Traditional and Regional Products – Production and Certification



Biomonitoring of the Biological Process of Sewage and Municipal Waste Treatment



1. Study programmes and curricula innovation



e.g. [2] Faculty of Environmental Engineering and Land Surveying - fields of study

- Land Surveying and Cartography
- Spatial Management
- Environmental Engineering
- Water Engineering and Management
- Landscape Architecture

New fields

- recruitment from the academic year 2024/2025:
 - Civil Engineering
 - Geoinformatics





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2. Technological integration



University Veterinary Polyclinic

It was officially opened on October 9, 2023,
but animal treatment started on July 1, 2024



Address:
2 Krakowska St.,
30-199 Rzęska

2. Technological integration



Center for Innovation and Research for Healthy and Safe Food

It was opened
on March 5, 2024.

The Center has several specialized laboratories with a wide analytical and research spectrum, which ensures cooperation in the field of **innovative technologies** and the preparation of process projects. There are also laboratories for nutrigenomics, proteomics, histology and primary cell investigation.



2. Technological integration

SCIENTIFIC PAPERS > 9500
PATENTS > 100
PROJECTS > 850
SCIENTIFIC CONFERENCES > 200

„Open Innovation Space
at the University of Agriculture in Krakow”



The Technology Transfer Center of the University of Agriculture in Krakow

- supports researchers in each stage of their work
- helps from the idea of the research, also in developing of idea and getting a research grant,
- helps in patent or invention applied to the patent office,
- protects rights for the invention,
- participates in the commercialization process,
- helps in seeing ideas to the marketplace.

The Innovation Center of the University of Agriculture in Krakow LTD

- deals in the commercialization of the results of scientific and research works created at the University of Agriculture by selling patents and licenses and creating spin-off companies.



3. Industry collaboration

companies and institutions cooperating with the UAK



Kombinat Rolny Kietrz



Agro-Efekt



Małopolski Bank
Spółdzielczy
Zawsze Twoim Bankiem



Krakowski Bank Spółdzielczy



VISTULA BANK
SPÓŁDZIELCZY
Rok zał. 1928 Grupa BPS



MASPEX



amplus





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Conclusion



By implementing several innovative educational approaches and cutting-edge agricultural innovations, the University of Agriculture in Krakow may equip graduates with the knowledge, skills, and attitudes needed to tackle the strategic challenges facing the future of agriculture. This holistic approach ensures that students are not only well-versed in technical knowledge but also prepared to lead and innovate in a rapidly changing landscape.

Graduates of the Faculty of Environmental Engineering and Land Surveying



Egzaminy inżynierskie i obrony prac dyplomowych
w roku akademickim 2022/2023



Obrony prac inżynierskich
w roku akademickim 2023/2024





University of Agriculture in Krakow



More info.:

<https://en.urk.edu.pl/>

<https://www.facebook.com/people/Welcome-Point-UAK-Krakow/100057276796714/>

Promotion movie on the UAK web:

<https://www.youtube.com/watch?v=dSM5t3xNqQ0>

Thank you for your attention.

