

Warsaw University of Technology



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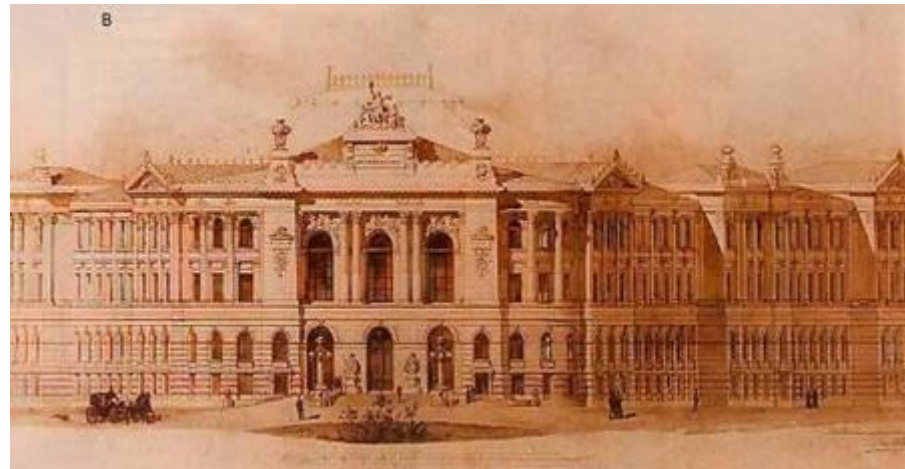
History



January 4, 1826 - the Preparatory School for the Institute of Technology

June 8, 1898 - Tsar Nikolaus II Institute of Technology

November 15, 1915 - Warsaw University of Technology (with Polish as the language of instruction)



Facts

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- WUT – one of the largest universities of technology in Poland
- WUT is ranked No. ONE in Poland among 23 universities of technology (since 2000)
- WUT is ranked No. THREE among all 392* public and private HEIs in Poland
- The graduates of WUT are the most wanted by Polish employers – far ahead of other Polish universities



Perspektywy University Ranking is the first and only reliable ranking in Poland – for 14 years. Whole ranking is divided in to 6 criteria (i.e. internationalization, prestige among employers, research, scientific efficiency, studying conditions and innovation).

- According to the last survey of the largest enterprises in Poland, more than 10% of their CEO's and Presidents are graduates of WUT!

20 Faculties

- Faculty of Administration and Social Sciences
- Faculty of Architecture
- Faculty of Automotive and Construction Machinery Engineering
- Faculty of Chemical and Process Engineering
- Faculty of Chemistry
- Faculty of Civil Engineering
- Faculty of Electrical Engineering
- Faculty of Electronics and Information Technology
- Faculty of Building Services, Hydro and Environmental Engineering
- Faculty of Geodesy and Cartography
- Faculty of Management
- Faculty of Mathematics and Information Science
- Faculty of Materials Science and Technology
- Faculty of Mechatronics
- Faculty of Physics
- Faculty of Power and Aeronautical Engineering
- Faculty of Production Engineering
- Faculty of Transport
- Faculty of Civil Engineering Mechanics and Petrochemistry (Płock)
- College of Economics and Social Sciences (Płock)

Other important units

Research Centres:

- Centre of Advanced Materials and Technologies (CEZAMAT)
- Centre of Preclinical Research and Technology (CePT)
- Research Centre for Energy & Environmental Engineering
- Research Centre for Functional Materials
- Research Centre for Aviation and Aerospace
- Research Centre for Defence and Security

Supportive Units:

- Centre for Advanced Studies
- Centre for Distance Learning (B.Sc., M.Sc. and Post-diploma studies)
- Foreign Language Centre
- Centre for Physical Education & Sports
- Centre for International Cooperation

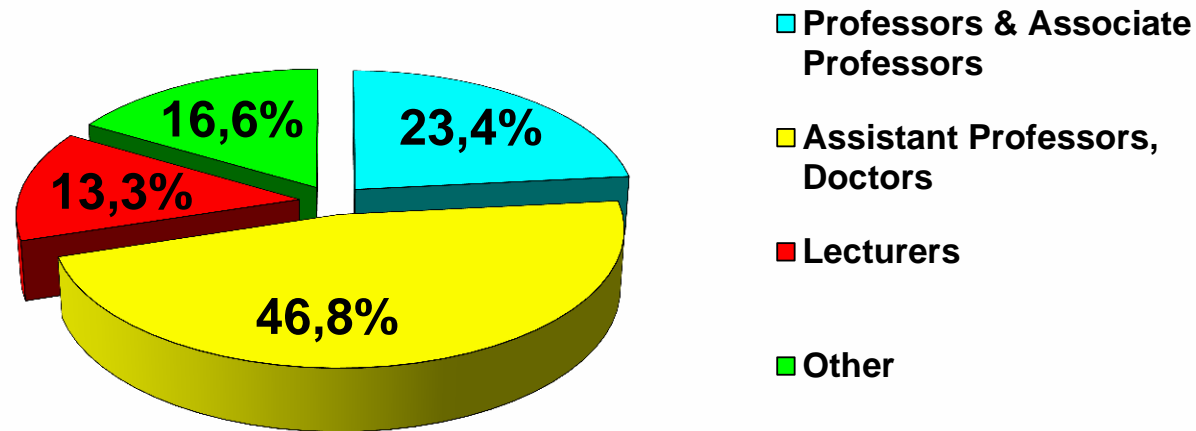
**Warsaw University
of Technology**



University staff

- Total: **5005 employees**
 - **Academic staff (Faculty): 2 473 persons (49%)**
 - **Non-academic staff: 2532 persons (51%)**
(administration, lab-technicians, supporting staff, library staff, etc.)

Academic staff in %:



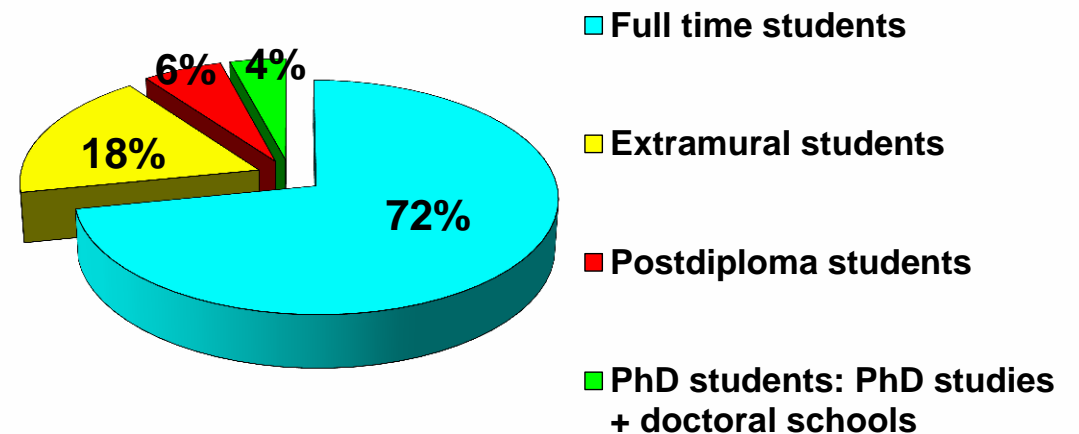
Students 2021

Total number of students	23 237
• Undergraduate	17 530
• Graduate	5 707
• PhD students	1 085
• Postgraduate students	1 544



Warsaw University
of Technology

Annual recruitment
of students: > 6 000



Studies in English

30 programmes of studies in English offered by 15 Faculties:

- Architecture – B. Sc. & M.Sc.
- Automotive and Construction Machinery Engineering – B.Sc.
- Building Services, Hydro, and Environmental Engineering – B.Sc. & M.Sc., EM M.Sc.
- Chemistry – M.Sc., EM M.Sc.
- Civil Engineering – B.Sc. & M.Sc.
- Electrical Engineering – B.Sc. & M.Sc.
- Electronics and Information Technology – B.Sc. & M.Sc.
- Geodesy and Cartography – M.Sc.
- Mathematics and Information Science – B.Sc. & M.Sc.
- Materials Science and Engineering – M.Sc.
- Mechatronics – B.Sc. & M.Sc., EM M.Sc.
- Physics – M.Sc.
- Power and Aeronautical Engineering – B.Sc. & M.Sc., EM M.Sc.
- Production Engineering – M.Sc.
- Transport – M.Sc.

**Warsaw University
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International students 2021

- **Regular international students** **1 736**
 - studies in Polish (~30%)
 - studies in English (~70%)
- Erasmus+ (European students) **243**
- ATHENS (short term courses) **57**

Representing approximately **91** nationalities

Students from Azerbaijan

10



Number of students from Azerbaijan, 31.12.2021

Faculty	Programme name	Degree	Liczba studentów
Faculty of Architecture	Architecture	B.Sc.	1
Faculty of Chemistry	Biotechnology specialisation: Applied Biotechnology	M.Sc.	1
Faculty of Electronics and Information Technology	Computer Science specialisation: Computer Systems and Networks	B.Sc.	5
	Computer Science specialisation: Computer Systems and Networks	M.Sc.	3
	Telecommunications	M.Sc.	1
Faculty of Electrical Engineering	Electrical Engineering	B.Sc.	2
Faculty of Geodesy and Cartography	Geodesy and Cartography specialisation: Mobile Mapping and Navigation Systems	M.Sc.	1
Faculty of Building Services, Hydro, and Environmental Engineering	Environmental Engineering specialisation: Environment Protection Engineering	M.Sc.	2
Faculty of Mathematics and Information Science	Computer Science and Information Systems specialisation: Artificial Intelligence	B.Sc.	10
	Computer Science and Information Systems specialisation: Artificial Intelligence	M.Sc.	1
Faculty of Power and Aeronautical Engineering	Aerospace Engineering	B.Sc.	1
	Aerospace Engineering	M.Sc.	3
Faculty of Mechanical and Industrial Engineering	Management and Production Engineering specialisation: Global Production Engineering and Management (GPM)	M.Sc.	1
Faculty of Transport	Transport	M.Sc.	3
Total number of students			35

PhD students

- **PhD students in doctoral schools and doctoral studies 1 085** (the largest number of PhD students among Polish technical universities):
 - studies in Polish 1064
 - studies in English 21
- 5 doctoral schools in 13 scientific disciplines
- the education of PhD students conducted since 1968
- activities of PhD students: articles or chapters of monographs, participation in international and national projects, patent applications, participation in international scientific conferences,
- WUT is member of the European University Association Council of Doctoral Education – the largest European network in this field, bringing together a community of academic leaders and professionals from over 230 universities awarding doctoral degrees

Cooperation agreements (key examples)

- University of Detroit Mercy (USA)
- University of Kentucky (USA)
- Ohio University (USA)
- National University of Singapore (Singapore)
- Nanyang Technological University (Singapore)
- Hanyang University (Republic of Korea)
- Kyungpook National University (Republic of Korea)
- KAIST (Rep. Of Korea)
- Nagoya University (Japan)
- Shizuoka University (Japan)
- Taiwan Tech (China/Taiwan)
- Taipei Tech (China/Taiwan)
- Indian Institute of Technology Madras (India)
- Beijing Jiaotong University (China)
- Tianjin University (China)
- Tianjin University of Technology (China)
- CERN (Switzerland)



Altogether scientific cooperation with 120+ universities, research institutions and high-tech industries.



Warsaw University
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Partner universities

- Technische Universität Berlin **DE**
- Politechnika Warszawska **PL**
- Universitat Politècnica de Valencia **ES**
- Politecnico di Milano **IT**
- Rheinisch-Westfälische Technische Hochschule Aachen **DE**
- Norges Teknisk-Naturvitenskapelige Universitet NTNU **NO**
- Chalmers Tekniska Høegskola **SE**

Vision and goals of ENHANCE

VISION

We will drive responsible societal transformation by enhancing a strong alliance of European Universities of Technology, empowering people to develop and use science and technology for the benefit of society and turn global challenges into opportunities.

Goals:

- stable, systemic and long-standing cooperation
- developing new solutions going beyond the existing models of cooperation

Pilot topics

Digitalisation and
Artificial Intelligence

Smart cities

Climate change

CEZAMAT – the Centre of Advanced Materials and Technologies

- The main goal is to conduct interdisciplinary research in fields of micro-, opto-, nano- and bioelectronics, in addition to multifunction micro- and nanomaterials engineering
- Project co-financed by EU Operational Program for Poland „Innovative Economy”
- Project value – approximately 100 M EUR
- Location in the southern campus of WUT



Cooperation with industry (key examples)

- PKN Orlen SA (Poland)
- Siemens AG (Germany & Poland)
- BASF (Germany)
- Carl Zeiss (Germany)
- ABB Ltd (Switzerland)
- FIAT (Italy & Poland)
- Telekomunikacja Polska S.A., (Poland) & France Telecom (France)
- EDF (France)
- Thales (France)
- General Electric (USA)
- Pratt&Whitney (USA)
- Lockheed Martin (USA)
- Raytheon (USA)
- LG Electronics (Korea & Poland)
- SAMSUNG (Korea & Poland)



ORLEN

SIEMENS

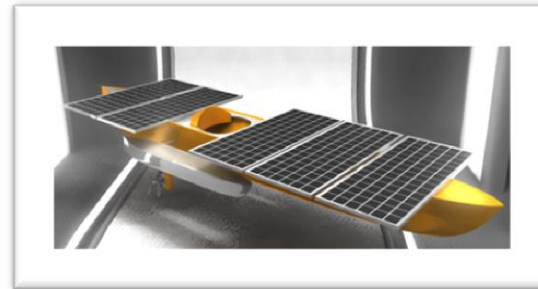
Ingenuity for life

 **BASF**

We create chemistry

Students' achievements

- Over 120 students research groups
- **PW-Sat** – first Polish satellite developed by students
- **WUT Solar Boat** - an innovative project of building solar powered boat
- **WUT Racing** - a project of designing and building students' F1 bolid



Our Alumni

The famous alumni and Professors:

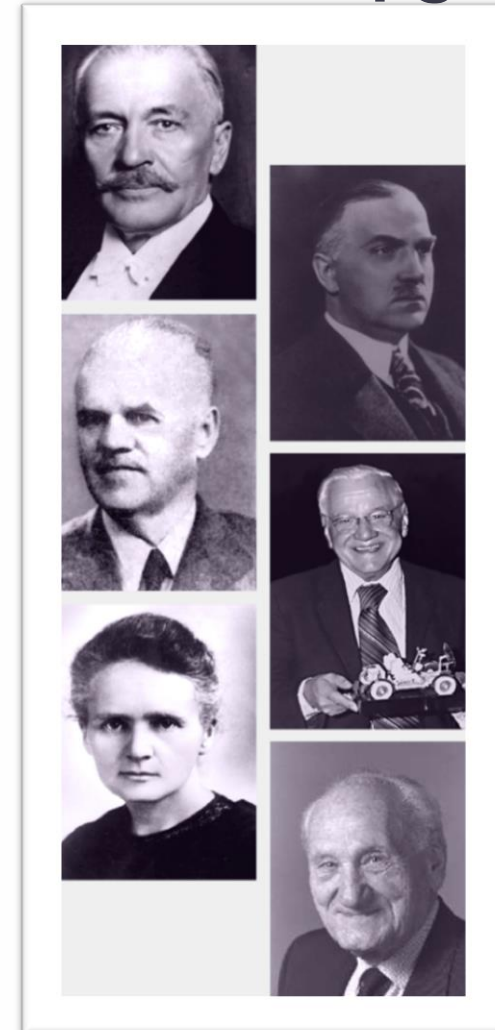
- **Ignacy Mościcki** (Prof. Chemistry, the President of Poland 1926-39),
- **Jan Czochralski** (Prof. Chemistry, inventor of semiconductor production process)
- **Mieczysław Wolfke** (Prof. Optics, precursor in the development of holography)
- **Mieczysław Bekker** (Prof. Mechanics, author of general idea, design and construction of the lunar vehicles LRV for missions Apollo 15, 16 and 17)

The famous Doctors Honoris Causa:

- **Maria Skłodowska-Curie** (Nobel Prize Winner),
- **Ignacy Mościcki**,
- **Jan Czochralski**,
- **Antoni K. Oppenheim** (Prof., Mechanics, world's leading combustion expert)

The Association of WUT Alumni and Friends – www.saip.pw.edu.pl
The North-American Association of WUT Alumni

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