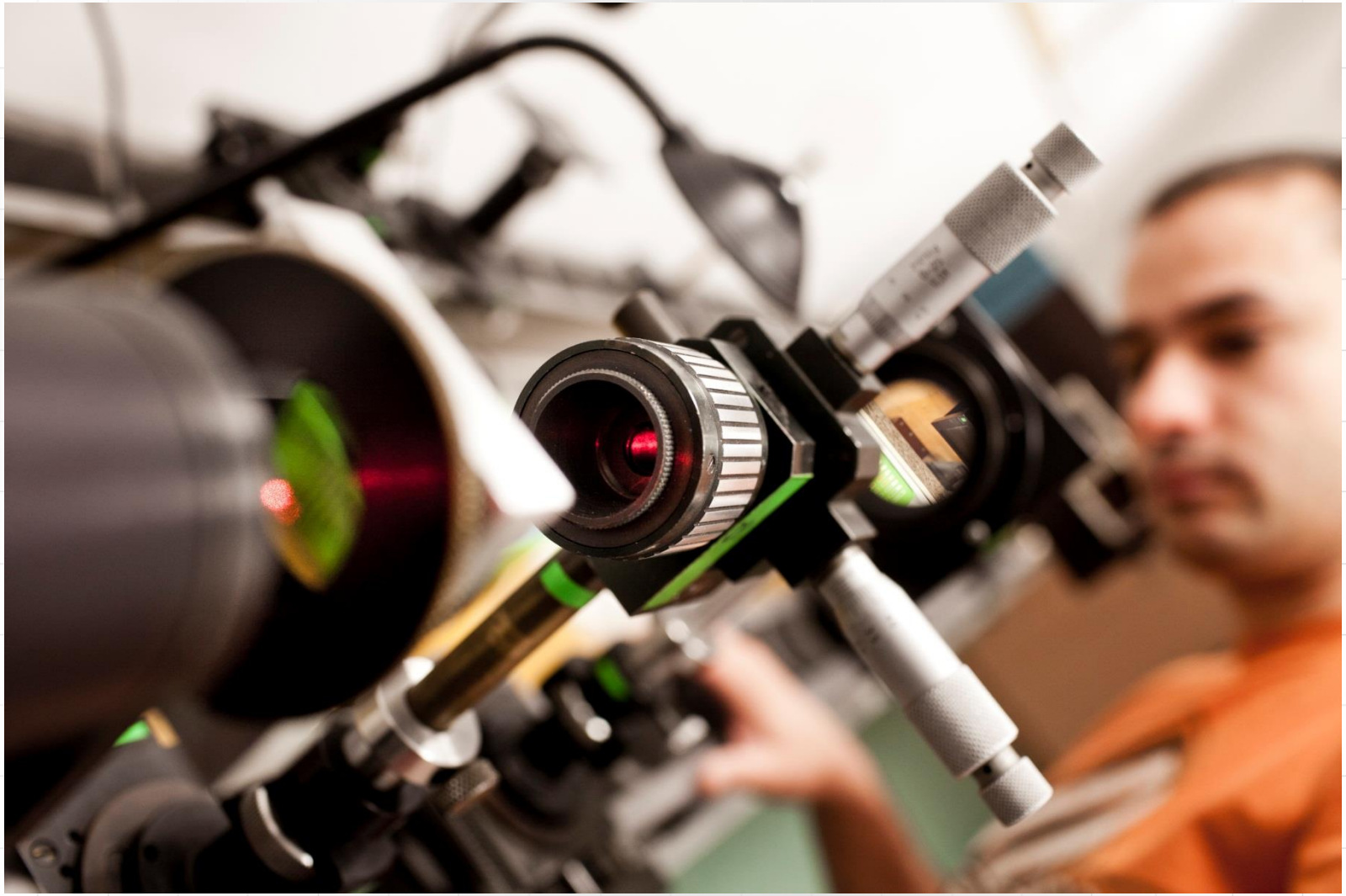
Wrocław University of Science and Technology

Wrocław University of Science and Technology



Wrocław University of Science and Technology

Today's Wrocław University of Science and Technology is the heir to the material legacy the German Königliche Technische Hochschule Breslau and the intellectual and research traditions of the Lviv University of Technology.



The university has used its current name since 1945. It was established and organised by researchers from Lviv and Warsaw. Since the very beginning of its existence, it has been an important centre of technical education.

Today it is one the best technical universities in Poland – 28 815 students study here under the guidance over 2 000 academic teachers, at 16 Faculties in Wrocław, Jelenia Góra, Legnica, Wałbrzych.



Mission

Wrocław University of Science and Technology is an autonomous university, a research institution of a university type. Its mission is to shape creative, critical and tolerant personalities of students and PhD students as well as set directions for the development of science and technology.

In service to society the university conducts its mission through its invention and innovation, the highest scientific research standards, sharing knowledge, high quality of education and freedom of criticism with respect for the truth.

The Wrocław University of Science and Technology, as an academic community, cherishes academic values and traditions, versatile cooperation with other universities and strives to secure a prominent position among European and world universities.

Doctors Honoris Causa

José Manuel Barroso
Daniel Józef Bem
Horst Berthold
Eckhard Beyer
Georgij Konstantynowicz Boreskow
Andrzej Burghardt
Philippe Busquin
Jerzy Buzek
Eugeniusz Dembicki
Georgij Iwanowicz Denisenko
Karel Dušek
Kurt Feser
Alfred Forchel
Elbert Kirtley Fretwell
Henryk Kardynał Gulbinowicz
Henryk Hawrylak
Stanisław Hückel
Giennadij Aleksiejewicz Jagodin
Andrzej Jellonek
Bogusława Jeżowska-Trzebiatowska
Moisey I. Kaganov
Alan R.Katritzky
Igor Ignacy Kisiel
Joseph Klafter
Jan Kmita
Stanisław Kulczyński
Philippe Lebrun
Stanisław Lem
Nikołaj Nikołajewicz Malinin
Achim Mehlhorn
Jean Meinnel
Angela Merkel
Anatolij Nikołajewicz Minkiewicz
Kazuo Nakamoto
Jean Nougaro
Volodymir V. Panasyuk
Zdzisław J. Pręgowski
Ilya Prigogine
Günter Pritschow
Bengt Ranby
Błażej Roga
Jurij Rudawski
Wacław Franciszek Sierpiński
Jerzy Ignacy Skowroński
Dionizy Smoleński
Joachim Klaus Strzodka
Frans Louis H. M. Stumpers
Karol Széchy
Zygmunt Szparkowski
Władysław Ślebodziński
Ryszard Tadeusiewicz
Hamadoun I. Touré
Jan Trojak
Włodzimierz Trzebiatowski
Kazimierz Urbanik
Zenon Wiłun
Andrzej Wiszniewski
Władysław Karol Włosiński
Eckhard Beyer
Gabriel Crean
Reimund Neugebauer
Krzysztof Kurzydłowski
Jerzy Leszczyński
Wojciech Witkiewicz



José Manuel Barroso, degree conferment year: 2011, President of the European Commission (2004-2014)



Angela Merkel, degree conferment year: 2008, Chancellor of Germany ; Ph.D. in physical chemistry, specialisation: quantum chemistry

Wrocław University of Science and Technology

Figures

Faculties	16
Fields of study	48
Students	28 815
Doctoral students	854
Academic staff	2163
Professors	216
PhD holders	1 275



Wrocław University of Science and Technology

One of the best in rankings



Perspektywy University Ranking 2017

the most innovative Polish university
4th place in the general ranking of universities
2nd place among Polish technical universities



CWTS Leiden Ranking 2017

2nd place among Polish technical universities



Best Global Universities 2017

3rd place among Polish technical universities

Wrocław University of Science and Technology

Education



Wrocław University of Science and Technology

Faculties

- Faculty of Architecture
- Faculty of Civil Engineering
- Faculty of Chemistry
- Faculty of Electronics
- Faculty of Electrical Engineering
- Faculty of Geoengineering, Mining and Geology
- Faculty of Environmental Engineering
- Faculty of Computer Science and Management
- Faculty of Mechanical and Power Engineering
- Faculty of Mechanical Engineering
- Faculty of Fundamental Problems of Technology
- Faculty of Microsystems Electronics and Photonics
- Faculty of Pure and Applied Mathematics
- Faculty of Technology and Natural Sciences
- Faculty of Technology and Computer Science
- Faculty of Technology and Engineering





Fields of study taught in English

BACHELOR FIELDS OF STUDY:



Faculty of Computer Science and Management

- Computer Science
- Management (Organizational management)
- Information and Communication Management

Faculty of Mechanical Engineering

- Mechanical Engineering and Machine Building

MASTER FIELDS OF STUDY:



Faculty of Architecture

- Architecture and Urban Planning
- Spatial Managment

Faculty of Civil Engineering

- Civil Engineering

Programmes taught in English

MASTER FIELDS OF STUDY:

Faculty of Chemistry

- Biotechnology (Bioinformatics)
- Chemistry (Medicinal Chemistry)
- Chemical and Process Engineering (Applied Chemical Engineering)
- Chemical Technology (Technology of Fine Chemicals)
- Chemical Nanoengineering

Faculty of Electronics

- Electronic and Computer Engineering
- Control Engineering and Robotics (Embedded Robotics)
- Electronics (Advanced Applied Electronics)
- Computer Science (Internet Engineering)
- Computer Science (Advanced Informatics and Control)
- Telecommunications (Modern Telecommunications)

Faculty of Electrical Engineering

- Electrical Engineering (Control in Electrical Power Engineering)
- Electrical Engineering (Renewable Energy Systems)

Programmes taught in English

MASTER FIELDS OF STUDY:



Faculty of Geoengineering, Mining and Geology

- Mining and Geology (Geotechnical and Environmental Engineering)
- Mining and Geology (Minerals Engineering)

Faculty of Computer Science and Management

- Computer Science (Computer Engineering)
- Management (Business Information System)



Faculty of Mechanical and Power Engineering

- Mechanical Engineering and Machine Building (Refrigeration and Cryogenics)

Programmes taught in English

MASTER FIELDS OF STUDY:

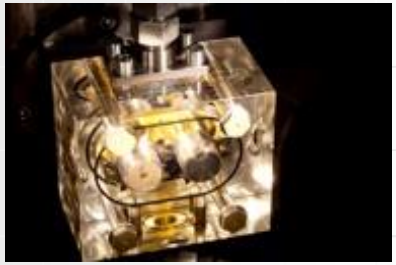


Faculty of Mechanical Engineering

- Mechanical Engineering (Automotive Engineering)
- Management and Manufacturing Engineering (Production Management)

Faculty of Fundamental Problems of Technology

- Computer Science (Computer Security)



Faculty of Microsystems Electronics and Photonics

- Electronics and Telecommunications (Electronics, Photonics, Microsystems)

Faculty of Pure and Applied Mathematics

- Applied Mathematics (Mathematics for Industry and Commerce)

Education quality and accreditation

University Quality Assurance System

- monitoring of academic standards
- evaluation of the learning process
- evaluation of teaching quality and conditions
- evaluation of the availability of information on education

European Federation of National Engineering Associations

- accreditation for 13 fields of study

European Chemistry Thematic Network

- accreditation for 2 fields of study

Der Vorsitzende der Staatlichen Akkreditierungskommission

- accreditation for Information Technologies

Aesop Certificate Of Quality 2016

- Spatial Management (Faculty of Architecture)

IPMA-Student (International Project Management Association Polska)

- Mining and Geology (Faculty of Geoengineering, Mining and Geology)

European Consortium for Mathematics in Industry

- Mathematics for Industry and Commerce

State Accreditation Committee

- Outstanding assessment for 7 fields of study and faculties:
  - Civil Engineering (Faculty of Civil Engineering)
  - Chemical Technology (Faculty of Chemistry)
  - Automation and Robotics (Faculty of Electronics)
  - Computer Science (Faculty of Electronics)
  - Electrotechnics (Faculty of Electrical Engineering)
  - Electronics and Telecommunication (Faculty of Microsystem Electronics and Photonics)
  - Technical Physics (Faculty of Fundamental Problems of Technology)
  - Faculty of Mechanical Engineering
  - Faculty of Architecture
  - Faculty of Computer Science and Management

Logo „HR Excellence in Research”

HR Excellence in Research



In June 2016 European Commission granted our University the logo "Human Resources Excellence in Research". It is given to those institutions that apply the principles of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers.

Having the logo "HR Excellence in Research" is awarded, among others, in international grant competitions of the European Commission, national grant competitions of the National Center for Science and the National Centre for Research and Development and competitions and funding programs of the Ministry of Science and Higher Education.

Logo "HR Excellence in Research" will provide the University prestige and distinction as an institution creating the best working conditions for scientists while implementation of research and scientific development in accordance with the European standards.

Wrocław University of Science and Technology

Infrastructure



Research and teaching facilities

Available to students:

- 175 buildings
  with modern laboratories, libraries and multimedia teaching rooms
- 561 teaching rooms and lecture halls
- 887 didactic laboratories
- 175 research laboratories
- computer laboratories and reading rooms with 24h internet connection





Wrocław University of Science and Technology

International cooperation



International exchange programmes

Erasmus Mundus Action 1

- EMMEP (European Mining, Minerals and Environmental Programme)
- MONABIPHOT – Molecular Nano- and Biophotonics
- CHEMICAL NANO-Engineering

Erasmus Mundus Action 2

- Erasmus Mundus Action 2 INTACT Asia (2013-17)
- Erasmus Mundus Action 2 FELLOW-MUNDUS South America (2013-17)
- Erasmus Mundus Action 2 THELXINOE Australia, New Zealand (2013-17)
- Erasmus Mundus Action 2 PHOENIX (2013-17)
- Erasmus Mundus Action 2 SATURN South Africa (2013-16)
- Erasmus Mundus Action 2 SIGMA Western Balkans (2013-16)

Erasmus+ KA103

Erasmus+ KA107

T.I.M.E. – Top Industrial Managers for Europe

Wrocław University of Science and Technology for the Young



Student activities

- 154 Scientific organizations
- 14 Student Culture Centres
- 19 Student Associations







Modern University

Prospective students:

- on-line registration at: www.admission.pwr.edu.pl
- official website: www.pwr.edu.pl



Students:

- electronic student ID
- electronic student record book
- cooperation with companies and institutions, opportunities for internships and trainings

Teaching:

- ECTS Points
- studying in foreign languages

Wrocław University of Science Technology for the Young

- Open days
- Studium Talent – a course for gifted secondary school students
- Team programming contests
- Competition in maths and logic games
- Chemistry contest
- Lower Silesian Festival of Science
- Young Researchers Academy





Wrocław University of Science and Technology

Science and research



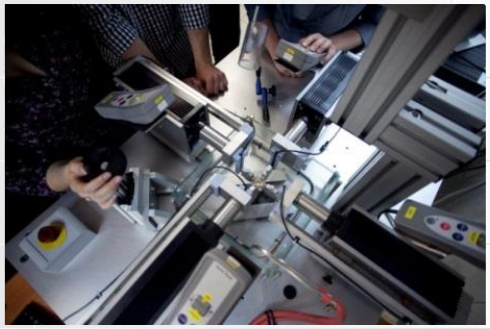
Research

Research results:

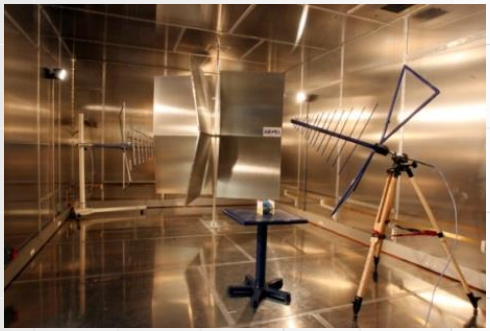
- 13 242 publications in journals on the ISI Master Journal List
- 12 335 publications in JCRI indexed journals
- 5 547 registered inventions, including utility models
- scientific journals (*Optica Applicata*, *Material Science, Systems Science*)
- scientific conferences and seminars

Commercialisation of research results:

- hundreds of original technical solutions, research and technology methods used in industry
- numerous license agreements to use inventions



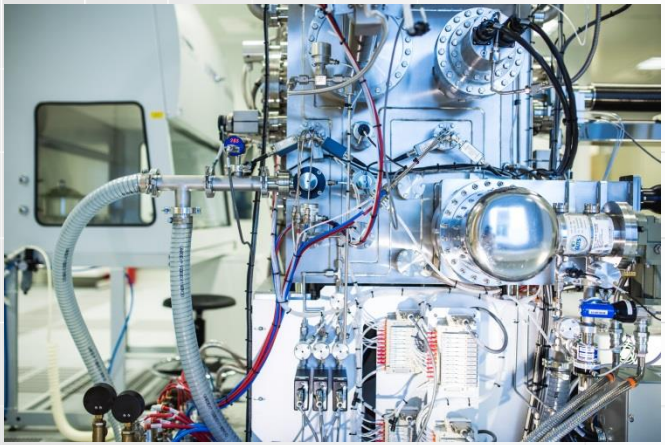




Certified laboratories

- Accredited Acoustics Testing Laboratory
- Accredited Laboratory of Computer Aided Designing
- Accredited Laboratory of Reverse Engineering
- Accredited Belt Conveying Laboratory
- Accredited Laboratory of Work Safety
- Accredited Testing Laboratory of Transport Infrastructure Facilities
- Accredited Laboratory of Olfactometry Tests
- Accredited Laboratory of Electromagnetic Compatibility
- Accredited Laboratory of Building Materials
- Accredited Laboratory of Building Constructions
- Accredited Laboratory of Machine Design and Research
- Accredited Chemical Laboratory of Multielemental Analyses
- Accredited Laboratory of Electromagnetic Field Standards and Measurements (research and calibration laboratory)





Cooperation with industry

Goals:

- joint research and implementation work in various industry sectors
- development of new technologies
- teaching and engineering staff and upgrading their professional skills
- cooperation on using research, teaching and training facilities
- opportunities for internships, student stays and diploma theses
- alumni career support
- development of academic entrepreneurship
- commercialization of research results
- preparation and implementation of projects financed from domestic and foreign funding
- promotion of modern technologies



Wrocław Centre for Technology Transfer

A Wrocław University of Science and Technology organizational unit, the oldest technology transfer centre in Poland (established 1995). The main objectives of the Centre are:

1. Commercialization of research results (market analyses, valuation, drawing up technology offers, negotiations with purchasers).
2. Supporting innovative activity and internationalization of companies (the Enterprise Europe Network financed by EU and the Ministry of Economy).
3. Support for European research projects (Regional Contact Point for EU Research Projects)

Effects:

- over 45 000 persons trained,
- over 33 000 hours of consultations and advising,
- over 600 applications for EU financing for research projects submitted with the aid of the Centre
- over 520 technological and design audits completed
- establishing cooperation between scientists and companies within over 330 innovative projects
- 162 innovative academic businesses founded with the aid of the Centre
- 118 contracts for international technology transfer concluded with the support of the Centre

Third generation

Main goals of Wrocław University of Science and Technology as the Third Generation University:

- education
- research
- commercialization of knowledge
- cooperation with the region and the city.



