



Wrocław University of Technology

The power of tradition,
the potential of modernity





Wrocław as an academic city

Academy of Fine Arts in Wrocław (894)
Academy of Physical Education (3 982)
Agricultural University of Wrocław (8 697)
Pontifical Theological Faculty (1 925)
Tadeusz Kościuszko Military Academy (395)
The Karol Lipiński Academy of Music in Wrocław (643)
The Ludwik Solski State Drama School (174)
University of Wrocław (46 509)
Wrocław Medical University (4 153)
Wrocław University of Economics (19 129)
Wrocław University of Technology (32 173)

- Local branches of Agriculture University, Wrocław University of Technology, Wrocław University in Lower Silesia Region,
- Public Higher Vocational Schools in Jelenia Góra, Legnica and Wałbrzych
- Private schools





History of Wrocław University of Technology

- **October 1910**
Königliche Technische Hochschule Breslau was founded
- **May 1945**
Scientific and Cultural Group came from the Jagiellonian University to Wrocław. Its task was to secure the assets of the pre-war universities in Wrocław.
- **24 August 1945**
Polish Universities in Wrocław were established. The University of Technology and Wrocław University operated as one organisation. The academic staff came from the Jan Kazimierz University in Lvov and the Lvov University of Technology.
- **15 November 1945**
The first academic lecture was delivered at Wrocław University of Technology.
- **1951**
University of Wrocław and Wrocław University of Technology became 2 separate universities





The University Campus today





Mission and goals

Mission statement

The Wrocław University of Technology is an autonomous university, a research institution of a university type. Its mission is to shape creative and critical personalities of the students and to chart directions for development of science and technology.



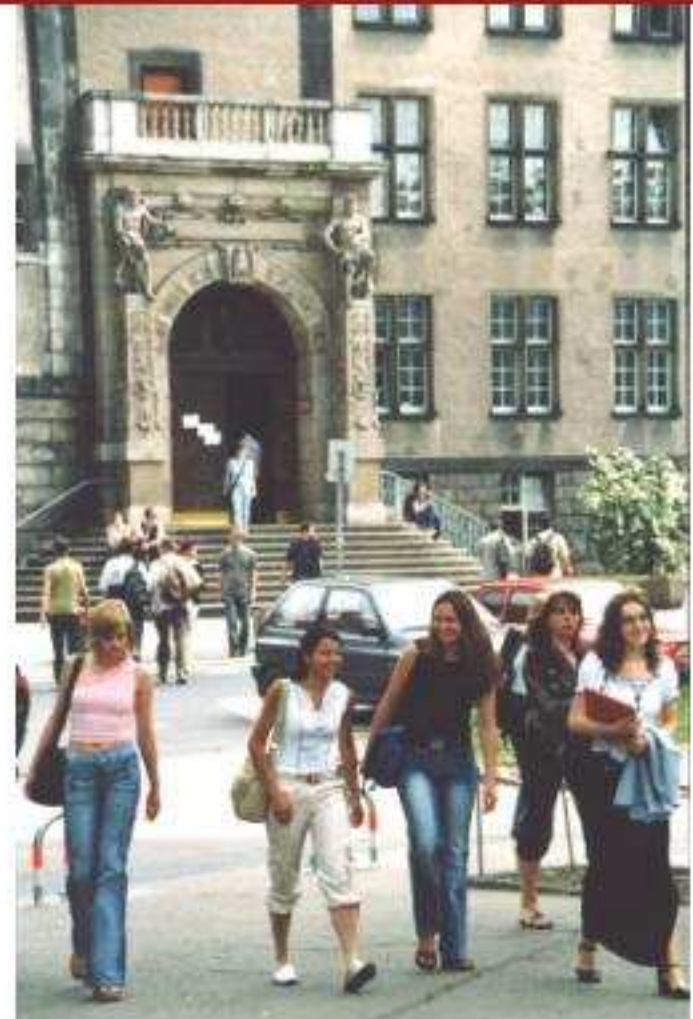
Goals

- To adjust the University operation to its social and economic environment
- Priority for education quality and commercialising the results of research
- Educational system that meets social, economic and labour market needs



Facts an figures

- 23 fields of study and 115 specialisations
- 12 Faculties
- Number of BSc and MSc students - 32 173
- PhD students - 1 047
- Number of academic staff - 2 008
 - Full professors - 193
 - Assistant professors - 255
 - *Adiunkt* (with doctoral degree) - 957
 - Assistants - 477
- Administration staff - 2 145
- The campus - 94 ha, 286 buildings
- Income
 - Government grants for teaching and research activities
 - Fees and research contracts





One of the best in rankings

For many years, Wrocław University of Technology has been ranked as the top university in Poland

2005

Rzeczpospolita - Perspektywy

III place among Technical Universities





Teaching

Faculty of Architecture

Fields of study:

Architecture and Town Planning
Spatial Economics



Faculty of Civil Engineering

Field of study:

Civil Engineering
Geotechnics and Hydroengineering
Building Engineering
Theory of Structures

Faculty of Chemistry

Fields of study:

Biotechnology
Chemistry
Chemical and Process Engineering
Chemical Technology
Material Science



Teaching

Faculty of Electronics

Fields of study:

Control Engineering and Robotics

Computer Science

Electronics and Telecommunications



Faculty of Electrical Engineering

Fields of study:

Control Engineering and Robotics

Electrical Engineering

Faculty of Geoengineering, Mining and Geology

Field of study:

Mining and Geology



Teaching

Faculty of Environmental Engineering

Fields of study:

Environmental Engineering

Environmental Protection



Faculty of Computer Science and Management

Fields of study:

Computer Science

Management and Marketing

Faculty of Mechanical and Power Engineering

Fields of study:

Mechanical Engineering and Machine Building

Power Engineering



Teaching

Faculty of Mechanical Engineering

Fields of study:

Control Engineering and Robotics

Mechanics and Machine Design

Transport

Production Engineering and Management

Faculty of Fundamental Problems of Technology

Fields of study:

Mathematics

Physics

Technical Physics

Materials Engineering

Computer Science

Faculty of Microsystem Electronics and Photonics

Fields of study:

Electronics and Telecommunication

Materials Engineering





Teaching facilities

- **Infrastructure:**

- 227 lecture theatres and rooms
- 40 laboratories
- 26 computer laboratories

- **Library**

- 900 000 volumes
- above 4 500 scientific journals
- above 200 data bases
- Electronic books (Springer, Kluwer and other)





Teaching quality

Goals

- Curricula focused on entrepreneurial skills
- The paramount importance of doctoral and interdisciplinary studies
- A promotion of the life-long learning concept

Strategy

- Number of highly qualified academic staff
- Educational standards closely connected with our scientific work and industrial experience
- Students facilities and social life
- Students mobility
- Students participation in research

Results

- Recognition of National Accreditation Committee for 12 fields of study
- Recognition of Technical Universities Accreditation Committee for 12 fields of study





Research

- **Research results in 2004**

- 2795 documented research works (articles, papers, patents, research releases),
- 2507 citations (Science Citation Index Expanded),
- 1293 research projects,
- 90 invention projects and utility models,
- Scientific journals (*Optica Applicata Quarterly*, *Material Science Bimonthly*, *Systems Science Quarterly*),
- 57 scientific conferences and seminars.

- **Centres for research:**

- Lower Silesia Centre of Advanced Technologies,
- Centre for Advanced Materials and Nanotechnology,
- The Centre of Biomonitoring, Biotechnology and Protection of Lower Silesia Ecosystems,
- Biomedical Engineering Centre.

- **Commercialisation of the research results:**

- TUDAG Dresden,
- Wrocław Technology Park,
- Wrocław Centre for Technology Transfer.



Research infrastructure

- **Centres for Excellence**

- Centre for Advanced Manufacturing Systems,
- Centre for Electromagnetic Compatibility, Devices, Systems and Instalations,
- Centre for Materials Recycling,

- Wrocław Centre for Networking and Supercomputing,

- **Certified laboratories**

- Electromagnetic Compatibility,
- Electromagnetic Field Standards and Metrology,
- Testing Laboratory of Building Engineering,
- Testing of Small Power Electrical Machines,
- Electromagnetic Compatibility in Electroenergetics.





Community Service

Cooperation with local authorities

- Strategy for Lower Silesia Development
- Structural Funds Projects

Cooperation with business

- Students internships
- Diploma projects for enterprises
- Consulting services, eexpertises
- Technical and technological solutions

Our partners

- Electricite de France
- Siemens GmbH
- Wrozamet - Fagor
- Volvo IT Poland
- KGHM Polska Miedz S.A.





International cooperation

348 projects in 2004 in cooperation with 296 institutions in 43 countries

- **Research**

5 and 6 FP

- 44 research projects,
- budget - 1 969 527 euro

- **Education**

Students and staff mobility (Socrates Erasmus):

- budget 2004/2005 - 540 500 euro
- 612 students and 160 faculty members

Students and graduates international internships (Leonardo da Vinci)

- budget- 340 000 euro
- 96 students and graduates

Double Diploma projects

Joint PhD projects



Edukacja i Kultura

Socrates
Erasmus



Promoting science among young people

- Lower Silesia Festival of Science,
- Open lectures,
- Competitions in programming, mathematical and logical games,
- Programs for talented secondary school students,
- Open laboratories.





Students life

30 research groups

- Protection of Monuments of Technology
- Academic Motor Club
- Academic Air Club
- Short-wave Transmitter Users' Club

15 student organisations

- Student Governing Body
- AZS Politechnika Wroclawska
- Independent Student Association
- European Student Forum

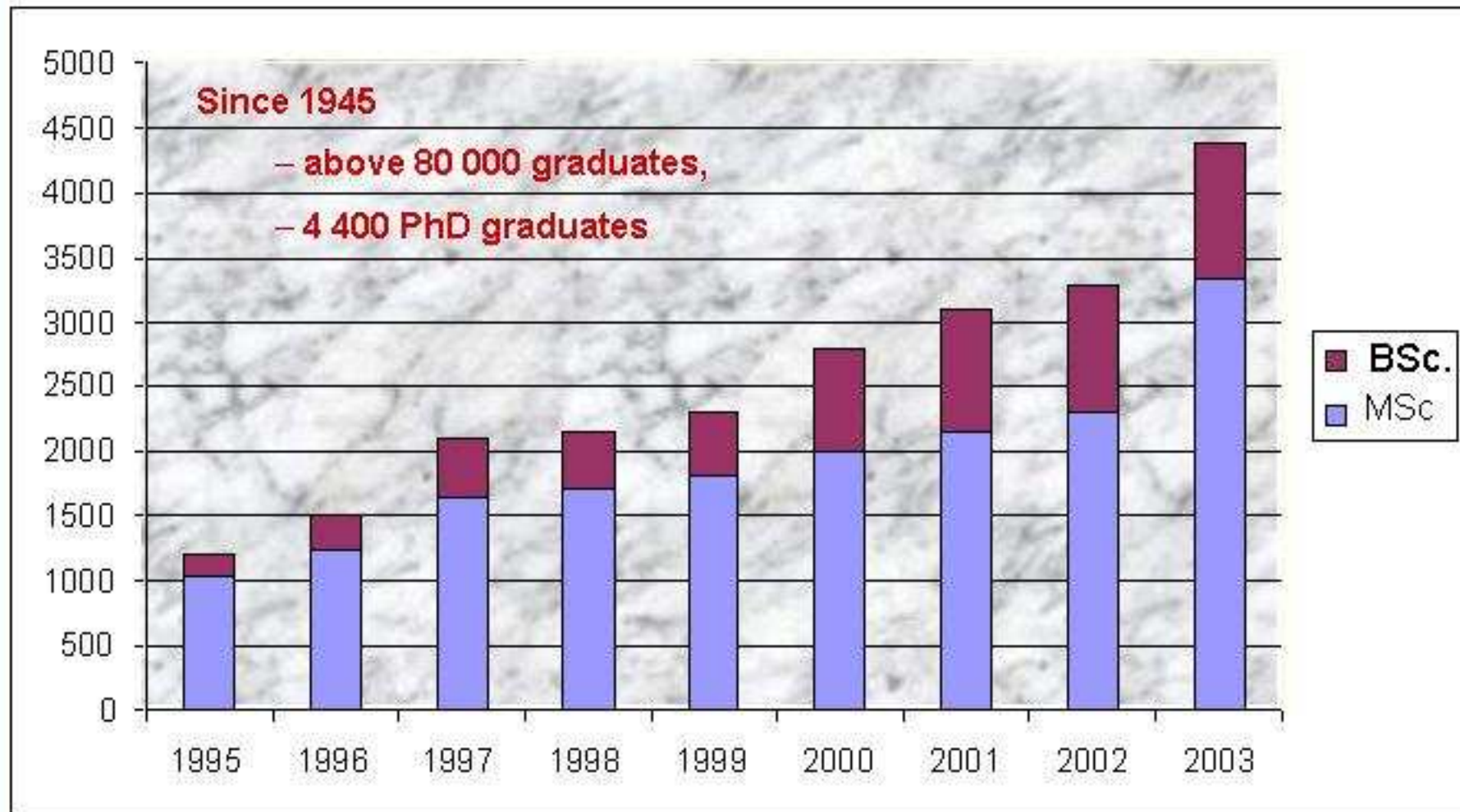
21 student culture organisations

- The Academic Choir
- para-Art Photography Society
- Film Discussion Club
- Vocal and Instrumental Band "Terra"
- Student TV "Styk"
- Cabaret „Pralka"





Alumni





Thank you for your attention