Foundation of MUT ... 1951
The first graduates ..... 1953
The first holders of Ph.D. degree ..... 1954
Organization of engineering studies for technical staff of the Polish Armed Forces (100-200 graduate students per year) ⇔ officers school

Laboratory lecture – 1953

Commissioning ceremony – 1956
Transformation from officers school into military technical university:

- increasing number of academic staff (holders of national professor’s degree and Ph.D. degree);
- development of graduate and postgraduate studies;
- increasing level of scientific researches.

First Polish lasers designed in MUT:

- **HeNe (Helium-Neonium)** … 1963
- **Al₂O₃ (Ruby)** ……………… 1963
- **CO₂ (Carbon dioxide)**…… 1966
- **TEA** ……………………… 1971
  
  (TEA = Transelectrical atmosphere)

the first ophthalmologic laser in Europe ……………… 1965
Military University of Technology – one of the largest military universities in the world and the leading research centre of military technologies in Poland:

- 500 - 700 graduates/year
- 40 - 80 doctors/year
- 300 - 400 scientific publications/year
- 200 - 300 research projects/year
- scientific specializations (automatic command systems, radars, microwave technologies, laser technologies, infrared detectors, liquid crystals, military communication equipments, electronic warfare devices, military and industrial high explosives, NBC weapons protection, special materials, military logistics)

*military university of technology**

commissioning ceremony - 1982

classes in laboratory - 1995
Transformation into a military-civilian university:

- beginning of civilian part-time studies - 1997
- beginning of civilian full-time studies - 2002
- decreasing number of military students - 2003
- parliament’s act transforming MUT into a military-civilian university of technology - 2003
- reactivation of the military students - 2006
- commissioning ceremony - 2015

Matriculation of military and civilian students - 2015

Last commissioning ceremony - 2015
MUT’s BUDGET

- Research; 39%
- MoD; 30%
- MS&HE; 20%
- Other; 11%
THREE-CYCLE MODEL of STUDY at MUT
(SINCE 2006)

- Ph.D. STUDIES
- M.Sc. STUDIES
- B.Sc. STUDIES

CANDIDATES from/and OUTSIDE MUT

CANDIDATES from/and OUTSIDE MUT

M.Sc. GRADUATES

B.Sc. GRADUATES

CANDIDATES
about 200 researchers and technical staff
NUMBER of STUDENTS at MUT

- military students
- full-time students
- part-time students

General MUT – 10342 including 78% as full-time students
Graduate education:

- undergraduate studies – B.Sc. degree
- graduate studies – M.Sc. degree
- postgraduate studies – Ph.D. degree

Continuing education:

- special courses – diploma
- language courses – diploma
- postgraduate courses – diploma
FIELDS of STUDIES
(quantity of specializations)

- AVIATION AND COSMONAUTICS
- BIOECONOMY
- CIVIL ENGINEERING
- CHEMISTRY
- CHEMISTRY AND ENGINEERING OF SPECIAL USE MATERIALS
- COMPUTER SCIENCE
- COMPUTER SCIENCE IN MEDICINE
- CRYPTOLOGY AND CYBERDEFENCE
- ELECTRONIC AND TELECOMMUNICATION
- GEODESY AND CARTOGRAPHY
- LOGISTICS
- MANAGEMENT
- MATERIALS ENGINEERING
- MECHANICAL ENGINEERING
- MECHATRONICS
- NATIONAL DEFENCE
- NATIONAL SECURITY
- POWER ENGINEERING
- SECURITY ENGINEERING
- SPACE AND SATELITE ENGINEERING

MORE THEN 90 SPECIALIZATIONS
The University is entitled by the Ministry of Science and Higher Education to confer Ph.D. and Post-Doc. degrees. The Ph.D. studies are offered in all technological fields of studies covered by the Military University of Technology:

- chemistry
- computer science
- construction engineering
- electronics
- geodesy
- machine construction and exploitation
- materials engineering
- mechanics
- security science
- telecommunication
STUDENTS and TEACHERS INTERNATIONAL MOBILITY

- Ecole Nationale Superieure des Ingenieurs des Etudes et Techniques d’Armament - ENSIETA, Paris (France)
- Institut d’Ingenierie Informatique de Limoges (France)
- Ecole Speciale Militaire de St. Cyr (France)
- Coventry University (UK)
- Johannes Kepler Universität Linz (Austria)
- Odense University College of Engineering (Denmark)
- University of Southern Denmark (Denmark)
- Czech Technical University, Prague (Czech Republic)
- Universidad Politècnica de València (Spain)
- Universidad Politècnica de Madrid (Spain)
- Universidad de Alicante (Spain)
- Universitet i Tromsø (Norway)
- Kauno Technologijos Universitetas (Lithuania)
- Universiteit Gent (Belgium)
- Technische Fachhochschule, Berlin (Germany)
- Delft University of Technology (Holland)
- Max Born Institute, Berlin (Germany)
- Leibniz Universität Hannover (Germany)
- University of Oulu (Finland)
- Florida State University, Tallahassee (USA)
- Purdue University, West Lafayette, Indiana (USA)
- Universitatea Politehnica din Bucuresti (Romania)
- Abant Izzet Baysal Üniversitesi, Bolu (Turkey)
MUT’s LECTURE HALLS and LABORATORY ROOMS

155 fully equipped lecture halls (for 6500 attendees)

236 laboratory rooms
MUT’s FOREIGN LANGUAGE CENTRE

Authorized courses in:

- English
- German
- French
- Russian
MUT’s SPORT CLUB and STUDENT’S CLUB
Over 410,000 books, 23,000 volumes of scientific journals, e-journals, full-text database
MUT’s TRAINING and FIRING RANGE
• Electromagnetic Compatibility Lab. (FoE/WEL),  
cert. Nr AB 693 [according to PN-EN ISO/IEC 17025:2001]

• Optoelectronics Metrology Lab. (IOE),  

• Cryptology Lab. (FoC/WCY),  
cert. Nr 038/2004/JCW

• Materials Research Lab. (FoAT&Ch/WTC),  
cert. Nr AB 693 [according to PN-EN ISO/IEC 17025]

• Mechanical Vehicle Lab. (FoM/WME),  
cert. Nr AB 733 [according to PN-EN ISO/IEC 17025:2001]
EUROPE:
AUSTRIA, BELGIUM, BELARUS, CZECH REP., FINLAND, FRANCE, GERMANY, GREECE, HUNGARY, ITALY, LITHUANIA, NORWAY, The NETHERLANDS, ROMANIA, RUSSIA, SLOVAKIA, SLOVENIA, SPAIN, SWITZERLAND, SWEDEN, UK, UKRAINE

WORLD:
AUSTRALIA, CANADA, CHINA, INDIA, IRAN, ISRAEL, JAPAN, QATAR, SINGAPORE, SOUTH KOREA, USA
The MUT’s highly qualified, scientific experts (about 40) are national representatives in STO Board, Agencies and/or Panels, responsible for coordinating of NATO’s efforts in the field of defence research and technology. They are attending working sessions, workshops, seminars and conferences, dealing with the following subjects:

- Studies, Analysis and Simulation (SAS)
- Systems Concepts and Integration (SCI)
- Sensors and Electronics Technology (SET)
- Information Systems Technology (IST)
- Applied Vehicle Technology (AVT)
- Modelling and Simulation Group (MSG)

A number of research works are being conducted at MUT, aimed at strengthening interoperability of Poland’s Armed Forces according to NATO requirements, especially those concerning command and control systems, logistic support, armament, electronic warfare systems, etc.

The MUT’s activities within NATO are not only related to the military but a significant part of them is devoted to subjects that are very important for the community.
- Computer Systems Design, Development and Protection
- Operations Research and Computer Decision Support Systems
- Battlefield Modelling and Simulation
- Artificial Intelligence and Expert Systems
- Security Systems
- Cryptology and Cryptography
FACULTY of ELECTRONICS

- Signal Processing and Analysis in Electronics Systems
- Radar Signal Processing Systems
- Electronic Warfare Systems
- Communications and Information Systems Engineering
- Interoperability of Communications and Information Systems
FACULTY of
CIVIL ENGINEERING and GEODESY

- Systems of space information
- Studies on dynamics of atmosphere and/or hydrometeorological support of Armed Forces
- Systems for fast reconstruction and repairing of bridges, airfields and other special buildings and constructions
- Multispectral techniques of image acquisition and processing
- Numeric studies of satellite geodesy and photogrammetry warp
FACULTY of LOGISTICS

- Military and civilian logistics
- E-logistics
- Micrologistics
- Eurologistics
- International logistics
- Ecologistics
- New constructional materials
- Materials for photonics and electronics
- Methods of environmental analyses (air, water and soil)
- Utilization of toxic and hazardous materials
- Physics and technologies of infrared detectors
- Liquid crystals physics and applications
- Diagnostic and modernization of combat vehicles, means of road transportation and machine engineering
- Petroleum, oil and lubricants (POL) storage, transportation and distribution equipments
- Durability testing, fatigue and fracture development testing, tribology tests of constructional materials
- Development of numerical and experimental methodologies for strength analysis of materials and constructions
FACULTY of MECHATRONICS and AEROSPACE

- Missile and rocket technologies
- Aviation technologies
- Aerodynamics and flight dynamics
- Armament and munitions technologies
- Security Engineering
- Thermodynamics
- Military applications of lasers and optoelectronic devices
- Detection of electromagnetic radiation: X – UV – VIS – IR – THz (multispectral detection, heterodyne detection)
- Laser interaction with matter (numerical modelling of high energetic interactions)
- Laser telemetry of C/B contaminations („in situ” and stand-off systems)
LASER TECHNOLOGIES and APPLICATIONS

- Physics and optics of lasers (UV, VIS, IR, X-ray lasers, new active media, thin films coatings)
- Laser cleaning methods (incl. works of arts refurbishment)
- Pulsed laser deposition of thin films (deposition of biomaterials, formation of nanostructures)
- Optoelectronic devices for environmental monitoring
- Laser medical systems (incl. cancer treatment)
“Military technologies used for civilian service”

The best example of this motto is →

Polish University –

MILITARY UNIVERSITY OF TECHNOLOGY

and its position in the European educational and research market.

Utilizing tradition and military discipline in everyday life, the Military University of Technology is well prepared to play a leading role in modern technological dialogue between the EU policymakers and civilian beneficiaries.