



# Lublin University of Technology



# Statistic



- 11 000 students
- 3 programmes studies (first cycle - 3,5 years, second cycle – 1,5 years, and PhD – 3 years)
- 16 study courses
- 50 specialities
- 1 100 staff
- 550 academic teachers

# Faculties



- Mechanical Engineering Faculty
- Civil Engineering and Architecture Faculty
- Enviromental Engineering Faculty
- Electrical Engineering and Computer Science Faculty
- Management Faculty
- Fundamentals of Technology Faculty

# Other academic facilities

- Library
- Development and Cooperation Office
- Caree Office
- International Exchange Office
- Intellectual Property Office
- Information Technology Centre
- Centre for Innovation and Technology Transfer
- Lublin Entrepreneurship Incubator
- Department of Foreign Languages
- Department of Physical Education and Sports



# Mechanical Engineering Faculty

- **The oldest, the biggest and the best faculty of LUT**
- Founded in **1953**
- Since **1987** – rights for granting PhD degrees
- Since **2000** – full academic rights



# Mechanical Engineering Faculty



## Courses:

- **Mechanics and Machinery Construction**
- **Materials Engineering**
- **Production Engineering**
- **Transport**
- **Mechatronics** (*course conduct with Electrical Engineering and Computer Science Faculty*)
- **Management and Production Engineering** (*course conduct with Management Faculty*)
- **Biomedical Engineering** (*intercollegiate course conduct with Medical University of Lublin*)



# Mechanical Engineering Faculty (2015)



- **3229 students, including:**
  - 2534 full time students,
  - 665 extra-mural students.
- **230 employees, including:**
  - 12 full professors,
  - 15 associate professors,
  - 83 assistant professors,
  - 18 assistants,
  - 102 technical and administration staff.
- **12 research organisational units, including:**
  - 2 Institutes,
  - 10 Departments.



- Institute of Technological Systems of Information
- Institute of Transport, Combustion Engines and Ecology
- Department of Applied Mechanics
- **Department of Machine Design and Mechatronics**
- Department of Materials Engineering
- **Department of Polymer Processing**
- Department of Computer Modelling and Metal Forming Technologies
- Department of Automotive Vehicles
- **Department of Production Engineering**
- Department of Applied Physics
- **Department of Automation**
- Department of Thermodynamics, Fluid Mechanics and Aviation Propulsion Systems



# Research areas



- Influence of processing conditions on properties and structure of selected polymer materials products
- Structure and properties of functional materials
- Computer-aided optimal modeling, analysis and construction draft machines and mechanisms
- Modeling and optimization of complex processing systems of high level of optimization

# Research areas



- Processes of metal forming
- Optimization of machine construction for process engineering and food engineering
- Construction optimization, utilization and production technology of car vehicles
- Vibration of non-linear systems, modeling of issues within materials mechanics
- Influence of technological, organizational and utility factors on the parameters of production systems

# New building of Faculty



# Polymer Properties and Structure Lab



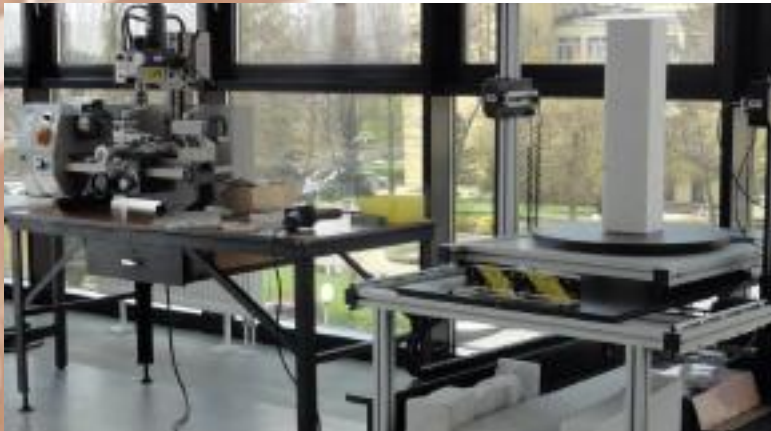
TGA and DSC device



Heat Deflection Temperature device



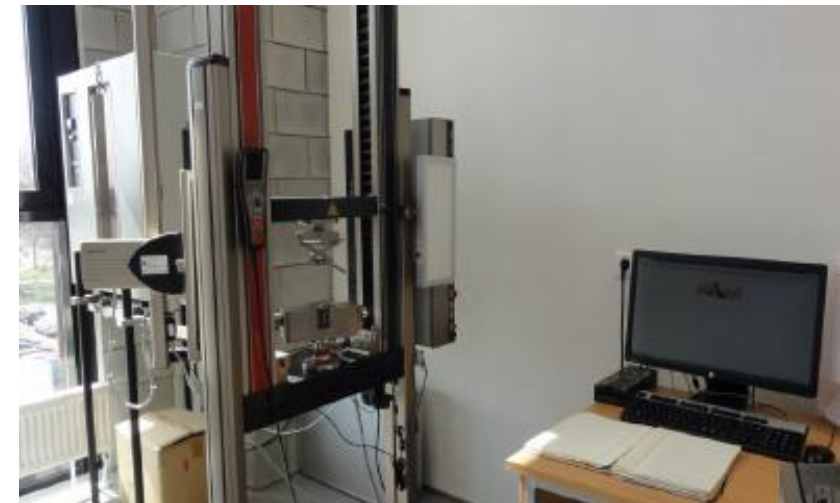
Microscope for image analysis



Machining machines



Thermoforming machine



Tensile testing machine

# Polymer Processing Lab



Single – screw extruder



pvT apparatus  
and milling  
machine

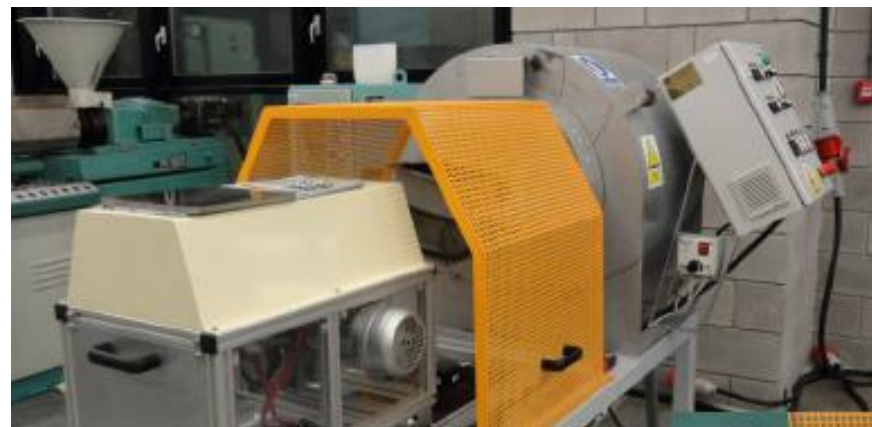
Injection molding  
machine



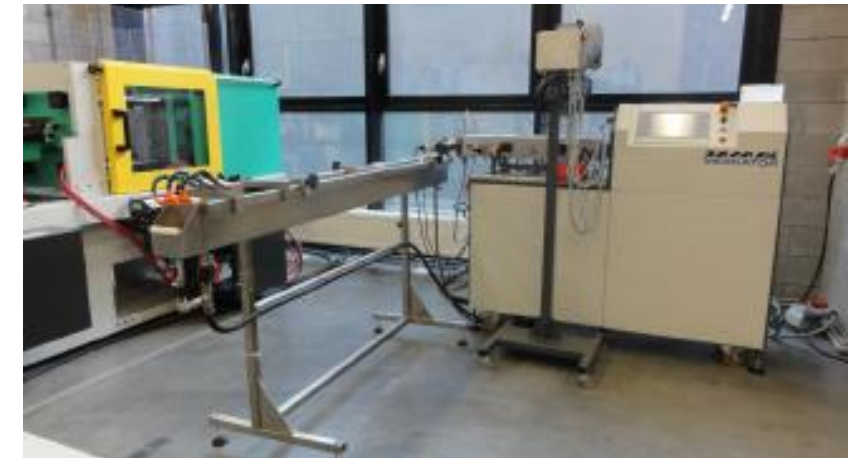
General view of lab



Blown film extruder



Rotomolding machine



Co-rotational twin-screw extruder



Thank you for your  
attention!