



ÓBUDA
EGYETEM

UNIVERSITAS
BUDAENSIS

Óbuda University

For science and future

- **We meet the industrial needs:** practice-oriented education, undergraduate programs in focus, project-based education in cooperation with industrial partners, production engineering training
- **Practice-oriented R&D with high theoretical demands**
- **University of online education**
- **K-MOOC** – national political mission
- **Foster mobility**
- **Social responsibility**
 - Active cooperation with all social stakeholders
 - Long term presence in disadvantage regions



October 10, 2018

History and Tradition



ÓBUDA
UNIVERSITY

Budapest Tech
(2000)



Bánki Donát
Polytechnic

Kandó Kálmán
Polytechnic

Technical College of
Light Industry

Joseph A. GALAMB
1898-1901
Chief designer of
the Ford Model T

Public Secondary Industrial
School of Budapest (1879)

The Hungarian Royal Public
Training School of
Mechanics and
Watchmaking (1888)



Óbuda University

Alba Regia Technical
Faculty

Bánki Donát Faculty of
Mechanical and Safety
Engineering

Trefort Ágoston Center of
Teachers Training and
Engineering Education

Kandó Kálmán Faculty of
Electrical Engineering

Rejtő Sándor Faculty of
Light Industry and
Environmental Protection
Engineering

Keleti Károly Faculty of
Business and
Management

John von Neumann
Faculty of Informatics

Campus
Salgótarján

Campus Locations



In the Carpathian Basin

- **RS - University of Novi Sad :**
Engineer Teacher
Training Program
- **ROU - Odorheiu Secuiesc**
Light Industry
Engineer (BSc)
Program

Óbuda University in numbers

11 355
students

BSc	9664
MSc	819
PhD	171
higher ed.voc training	279
specialized training	422
foreign students	528
students in dual education	127

4 higher ed.
vocational
training

14 BSc Degrees

11 MSc Degrees

15 postgraduate
specialist training
course

3 PhD programs

English language programs

Study Engineering in the heart of **Budapest**

Computer Science Engineering – *sketch a new path for computing*
Electrical Engineering – *understand cascades and instabilities*
Environmental Engineering – *create smarter, better, faster infrastructures*
Industrial Product Design – *lead with creative design*
Mechatronics Engineering – *integrate system dynamics, modeling, and control systems*
Mechanical Engineering – *conceptualize, analyze and fabricate*
Technical Management – *blend administrative, business, and interpersonal skills*
Light Industry Engineering (2018) – *supervise manufacturing processes*

undergraduate programs

BSc

graduate programs

MSc

chase complexity – Computer Science Engineering
be at the heart of the maker movement – Mechatronics Engineering
utilize analytical and numerical methods – Applied Mathematics

doctoral programs

PhD

Applied Informatics and Applied Mathematics – *gain multivalued logic to solve and process*
Safety and Security Sciences – *control the execution of tasks*
Material Sciences and Technologies – *redefine the material world*



Óbuda University

For more information: <http://international.uni-obuda.hu>

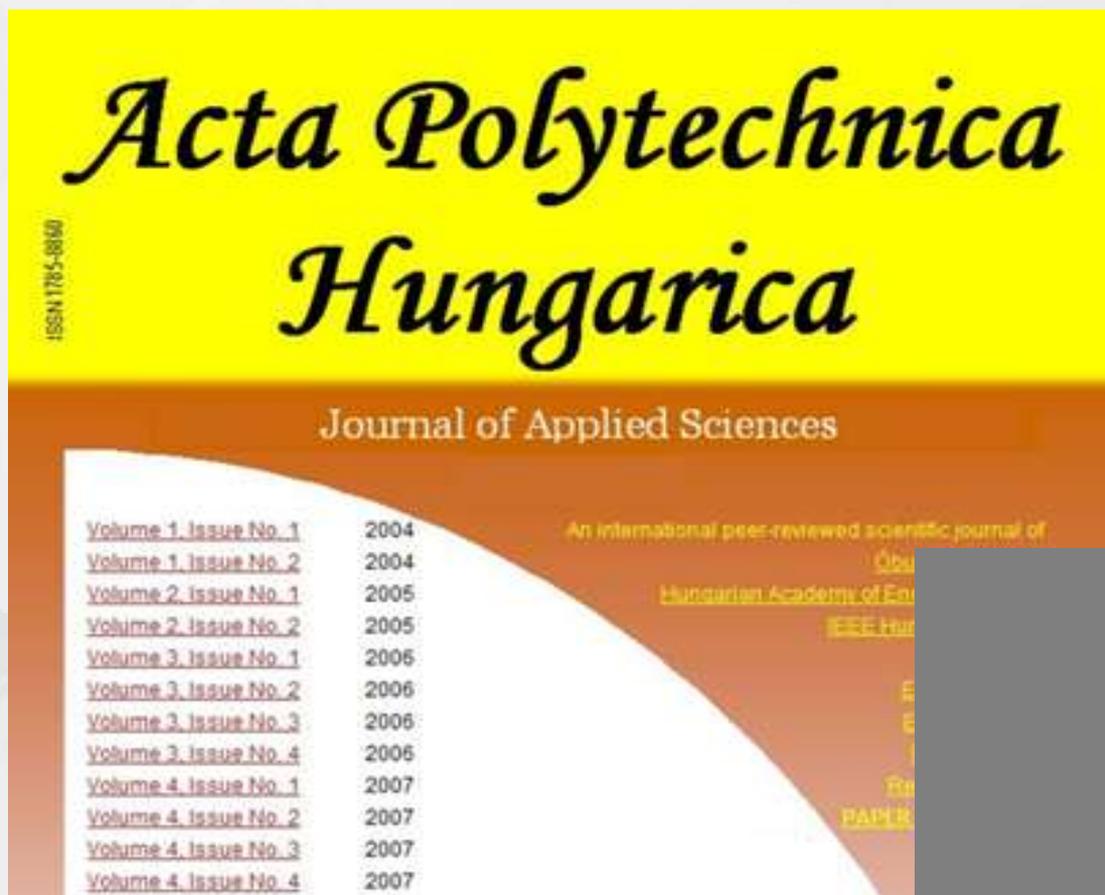
Science and Research

- University research, Innovation and Service Center (EKIK)
 - Antal Bejczy Center for Intelligent Robotics
 - Bio -Tech Knowledge Center
 - Physiological Controls Knowledge Center
 - SmartLab Knowledge Center
 - Alternative Energy Sources Knowledge Center
 - Science Safety Knowledge Center
 - Organizational Science Knowledge Center
 - System of Electrical Drives Knowledge Center
- **14** International Conferences or Symposiums organized by ÓU
- Participation in more than **20** Scientific EU Projects

Conferences



Acta Polytechnica Hungarica



IF for 2012: 0.588

IF for 2013: 0.471

IF for 2014: 0.649

IF for 2015: 0.544

IF for 2016: 0.612

IF for 2017: 0.745

Industrial relationships



International Relations

- International relations with **90** countries
- **300** higher education programs and partnerships with research institutions
- **71** scientific cooperations
- **185** education agreements
- **143** mobility contract agreements

Examples & best practices

October 10, 2018



ÓBUDA
UNIVERSITY

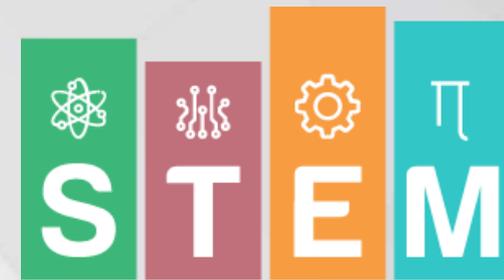
1. Career orientation

EU STEM Coalition

- The **EU STEM Coalition** is a Europe-wide network of national STEM platforms
- The objectives of the EU STEM Coalition:
 - (1) to facilitate the exchange of best practices between national STEM platforms,
 - (2) support member states in the development of new STEM strategies based on the triple helix approach.
- **The Hungarian National Lead Partner is Obuda University**
- 2016 - Erasmus+ KA2 project consortium for EU STEM Action Plan
- 2018- ÓÚ launched STEM platform



Science Technology
Engineering Mathematics



HUNGARY



2. Organization of trainings abroad

GTZ-GIZ Icecairo

- Developed and conducted an introductory training into the scientific basics as well as the practical installation of Solar Thermal Collector (STC) systems in Egypt
- Interactive course provided the participants with practical skills on construction, engineering sizing and installing STC systems.



3. R&D

Shino-Hungarian Cooperative Research project

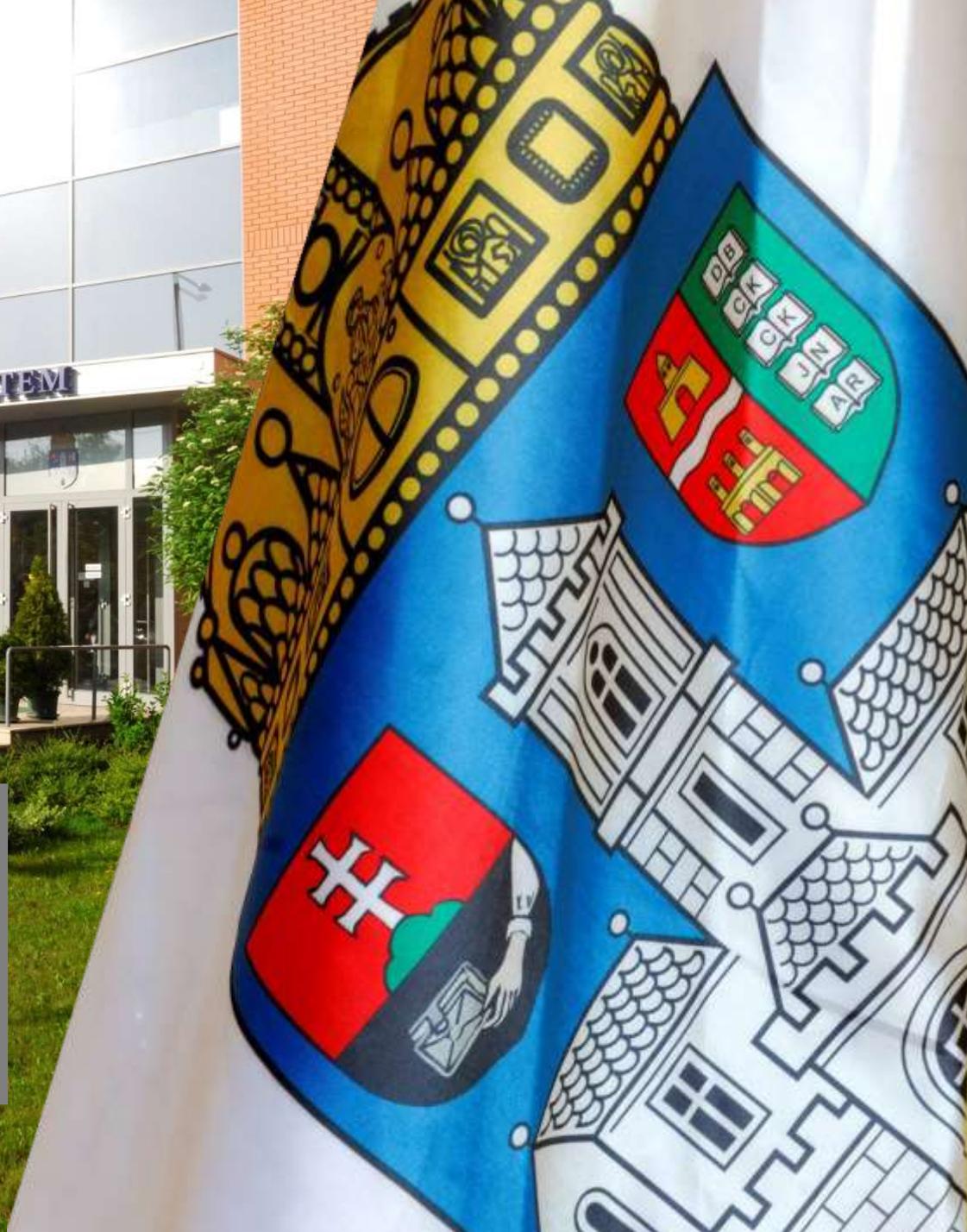
- Heat Treatment Stress and Distortion Control for High Value-added Machinery Products
- Duration of the project:
 - April, 2014 – March, 2017
- Participants
 - Tsinghua University
 - Obuda University
 - Metals & Chemistry Research Institute, China Academy of Railway Science
 - Tianjin Heavy Equipment Engineering Research Company
- Financial fund from government:
 - 1.7 million CNY (about 250,000 Euro)



4. Third mission

Social responsibility





**Thank You
for your attention!**