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Building K, Kmf85
HUNGARY

- 10 000 000 inhabitants
- 2 000 000 live in the capital, BUDAPEST
- HUNGARIAN LANGUAGE, related to Finnish
- Member of the EUROPEAN UNION since 2004
Budapest University of Technology and Economics (BME)
235
Tradition & 21st Century
Creativity & Hard Work
Celebrations & Fun

Budapest University of Technology and Economics
BME in Figures

• 1782–1949 Institutum Geometricum – Hydrotechnicum, ...
• 1949–2000 Technical University of Budapest
• 2000– Budapest University of Technology and Economics
• 8 Faculties, 77 Departments, 24 000 Students
• Academic Staff: 1300, with scientific qualification: 800
• Golden Quality Prize in HE – (in Hungary, 2007)
• Title of Research University; 5 in the country (2010)

Faculties:
• Civil Engineering (1782)
• Mechanical Engineering (1871)
• Architecture (1873)
• Chemical and Bioengineering (1873)
• Electrical Engineering and Informatics (1949)
• Transportation Engineering (1951)
• Natural Sciences (1998)
• Economic and Social Sciences (1998)
Nobel laureates of BME

Dénes GÁBOR (1900 – 1979)
holography, in 1971

Jenő WIGNER (1902 – 1995)
theoretical physics, in 1963

György OLÁH (1927–)
organic chemistry, in 1994
Former students of BME

Tóдор (Theodore) von KÁRMÁN
Aeronautical Engineer & Mathematician
(1881–1963)

Donát BÁNKI
inventor of carburetor
(1859 – 1922)

Károly ZIPERNOWSKY
inventor of transformer
(1853–1942)

Leo SZILÁRD
Physicist
(1898–1964)

Ede TELLER
Physicist
(1908–2004)
(Former) students of BME

Ernő RUBIK
inventor of Rubik’s cube
(1944–)

László CSEH
world champion
(1985–)
Olympics winners

Hajós Alfréd, 1896 (2) swimming
Werkner Lajos, 1908, 1912 fencing
Pósta Sándor, 1924 fencing
Glykais Gyula, 1928, 1932 fencing
Barta István, 1932 water polo
Tarics Sándor, 1936 water polo
Rajcsányi László, 1936, 1948, 1952 fencing
Kovácsi Aladár, 1952 pentathlon
Fábián László, 1956 canoening
Keresztes Attila, 1956 fencing
Delneky Gábor, 1960 fencing
Nagy Imre, 1960 pentathlon
Felkai László, 1964 water polo
Dömötör Zoltán, 1964 water polo
Kulcsár Győző, 1964, 1968 (2), 1972 fencing
Cservenyák Tibor, 1976 water polo
Kovács Antal, 1992 judo
Molnár Tamás, 2004, 2008 water polo
Education at the BME

- Engineering education in general:
  7–8 semester BSc programs (210–240 credits)
  3–4 semester MSc programs (90–120 credits)
  PhD Programs (2+2 years)

- BSc, MSc and PhD curricula in English (28 programmes)

- Since 1994 European Credit Transfer Scheme

- Continuing Engineering Education, postgraduate courses, MBA, etc.
BSc/BA Programmes at the BME

Faculty of Civil Engineering (EMK)
Faculty of Mechanical Engineering (GPK)
Faculty of Architecture (EPK)
Faculty of Chemical Engineering and Bioengineering (VBK)
Faculty of Electrical Engineering and Informatics (VIK)
Faculty of Transportation Eng. (KSK)
Faculty of Natural Sciences (TTK)
Faculty of Economic and Social Sciences (GTK)

- Civil Engineering
- Mechanical Engineering
- Energy Engineering
- Industrial Design Engineering
- Mechatronics
- Architecture
- Chemical Engineering
- Bioengineering
- Environmental Engineering
- Electrical Engineering
- Computer Science and Engineering
- Transportation Engineering
- Mathematics
- Physics
- Management in Engineering
- Business and Management BA
- International Business BA
- Applied Economics BA
- Communication and Media Sciences BA
2 year MSc/MA Programmes at the BME

<table>
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<tr>
<th>ENGINEERING MASTER PROGRAMMES</th>
<th>OTHER MASTER PROGRAMMES</th>
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<tbody>
<tr>
<td>• Structure civil engineer</td>
<td>• Applied Mathematics</td>
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<tr>
<td>• Infrastructure civil engineer</td>
<td>• Physics</td>
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<tr>
<td>• Geodesy &amp; geoinformatics</td>
<td>• Cognitive sciences</td>
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<tr>
<td>• Mechanical engineer</td>
<td>• Economics</td>
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<tr>
<td>• Mechatronics engineer</td>
<td>• International economy</td>
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<tr>
<td>• Mechanical modeling</td>
<td>• Regional and environmental economy</td>
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<tr>
<td>• Architecture (5 years)</td>
<td>• Marketing</td>
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<tr>
<td>• Chemical engineer</td>
<td>• Master of Business Administration</td>
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<td>• Bioengineer</td>
<td>• Financial</td>
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<td>• Environmental engineer</td>
<td>• Accounting</td>
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<td>• Electrical engineer</td>
<td>• Management and Organisation</td>
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<td>• Computer engineer</td>
<td>• Technical manager</td>
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<td>• Biomedical engineer</td>
<td>• Engineer– teacher</td>
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<td>• Transport engineer</td>
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<td>• Logistics engineer</td>
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<td>• Vehicle engineer</td>
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Doctorate Schools (PhD/DLA)
~900 PhD students/candidates

Faculty of Civil Engineering
- Civil Engineering Sciences
- Earth Sciences

Faculty of Mechanical Engineering
- Mechanical Engineering Sciences

Faculty of Architecture
- Architectural Art (DLA)
- Building Sciences

Fac. of Chemical and Bioengineering
- Chemistry and Chemical Engineering

Faculty of Electrical Engineering
- Electrical Engineering
- Information Technology
- Transport Science
- Vehicle, Mobile Machines Engineering

Faculty of Transportation Engineering
- Mathematics and Computer Science
- Physics
- Economy, Management and Organizations
- Psychological Sciences
- History of Technology and Science

Faculty of Natural Sciences

Faculty of Economic and Social Sciences
Main industrial partners

- Alcoa
- Audi
- Bosch
- Budapest Gas Works
- EGIS
- E.ON
- Ericsson
- Flextronics
- General Electric
- Hewlett-Packard
- Hungarian Electric Works
- Hungarian Oil Co. (MOL)
- Hungarian Post
- IBM
- Intel
- Knorr-Bremse
- Microsoft
- Nokia
- Oracle
- Paks Nuclear Power Plant
- Richter Gedeon
- SAP
- Sanofi-Aventis (Chinoin)
- Siemens
- Telenor
Erasmus exchanges at BME

- Bilateral agreements with around 300 European universities, from 27 countries
- More than 400 outgoing BME students/year
- Around 500 incoming students/year
Number of ERASMUS Agreements (2016–17)
Thank you for your attention!

Budapest University of Technology and Economics, BME
www.bme.hu