U-Multirank – State of Play

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Lodz, 16-27 September 2016

Presented by:

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Part One

multirank
Universities compared. Your way.

Purpose and Approach

The purpose of U-Multirank

U-Multirank is a *transparency* tool

- making the *diversity* in higher education visible by including institutions with different missions and profiles: multiple excellences,
- comparing like-with-like by offering an interactive mapping tool,
- providing *benchmarking* information to higher education institutions (➔ presentation by CESAER),
- helping students to make an informed *choices,*
- And, at the same time, overcoming the methodological shortcomings of global rankings

What is different in U-Multirank?

No composite score, no weights on indicators	⟺	Multi-dimensional ranking
No league table	⟺	Ranking into 5 categories
No limitation on international research universities	⟺	Diversity off HEIs
No overemphasis on institutional data	⟺	Comprehensive subject rankings

What others say

Andreas Schleicher, Director Education and Skills and Special Advisor on Education Policy at the OECD,

"With a first-of-its-kind multi-dimensional approach to comparing institutional performance, U-Multirank is now putting students and the public into the driver's seat of determining which universities are doing well on what and why."

Fernando M. Galán, Vice-Chairperson of the European Students Union (ESU)

"U-Multirank will be an extremely useful tool for students all over the world, being the first global ranking that includes in a serious manner the teaching and learning dimension."

The scope of U-Multirank 2016

> 1,300	universities are included
> 780	of these universities have provided comprehensive data
> 90	Countries represented
> 3,000	faculties/departments are included in the 13 subject rankings
> 9,700	study programmes within these faculties are included
100,000	students completed the student satisfaction survey

Agenda
Part Two

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The Methodology

Multi-dimensional ranking covering five dimensions

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Universities compared. Your way.

Teaching & Learning — Select all

- [ ] Bachelor graduation rate
- [ ] Masters graduation rate
- [ ] Graduating on time (bachelors)
- [ ] Graduating on time (masters)

Knowledge Transfer — Select all

- [ ] Co-publications with industrial partners
- [ ] Income from private sources
- [ ] Patents awarded (absolute numbers)
- [ ] Patents awarded (size-normalised)
- [ ] Industry co-patents
- [ ] Spin-offs
- [ ] Publications cited in patents
- [ ] Income from continuous professional development

Regional Engagement — Select all

- [ ] Bachelor graduates working in the region
- [ ] Master graduates working in the region
- [ ] Student internships in the region
- [ ] Regional joint publications
- [ ] Income from regional sources

Research — Select all

- [ ] Citation rate
- [ ] Research publications (absolute numbers)
- [ ] Research publications (size-normalised)
- [ ] External research income
- [ ] Art related output
- [ ] Top cited publications
- [ ] Interdisciplinary publications
- [ ] Post-doc positions

International Orientation — Select all

- [ ] Foreign language bachelor programmes
- [ ] Foreign language master programmes
- [ ] Student mobility
- [ ] International academic staff
- [ ] International joint publications
- [ ] International doctorate degrees

Different data sources provide a multi-perspective view

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Self-reported institutional data	➢ Institutional and subject level ➢ Data on staff, students, graduales, revenues, international and regional orientation
Students-survey-data	➢ Subject rankings only ➢ Sample of up to 500 students per subject and institution ➢ Assessment of their learning-experience
Bibliometric data	➢ Based on Thomson Reuters data base ➢ Introduction of innovative indicators: co-publications with industry; citations cited in patents
Patent data	➢ Institutional ranking ➢ Technology related subjects ➢ Patents awarded and co-patents with industry

Data quality has highest priority

Stakeholder orientation	➢ Consultation with stakeholders on indicators and definitions & delineation of subjects ➢ Intense cooperation with CESAER
Inbuilt quality checks in data collection	➢ Questionnaires include 150+ in-built automated checks for consistency and plausibility ➢ Direct feedback to institutions
Feedback loops with institutions	➢ After first submission of data, data are checked by UMR ➢ Direct questions and comments in the questionnaire ➢ Second period of data correction and delivery
Data verification and validation	➢ Manual checks of questionnaires ➢ Statistical checks: plausibility, consistency, outliers ➢ Comparison over time

Agenda
Part Three

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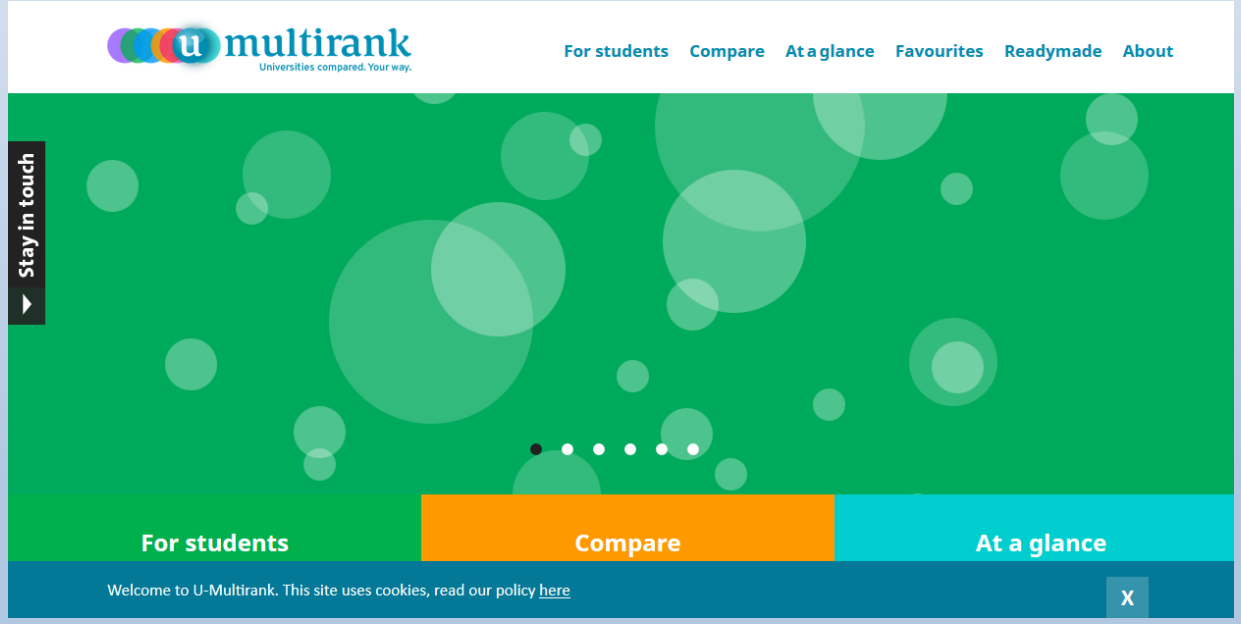
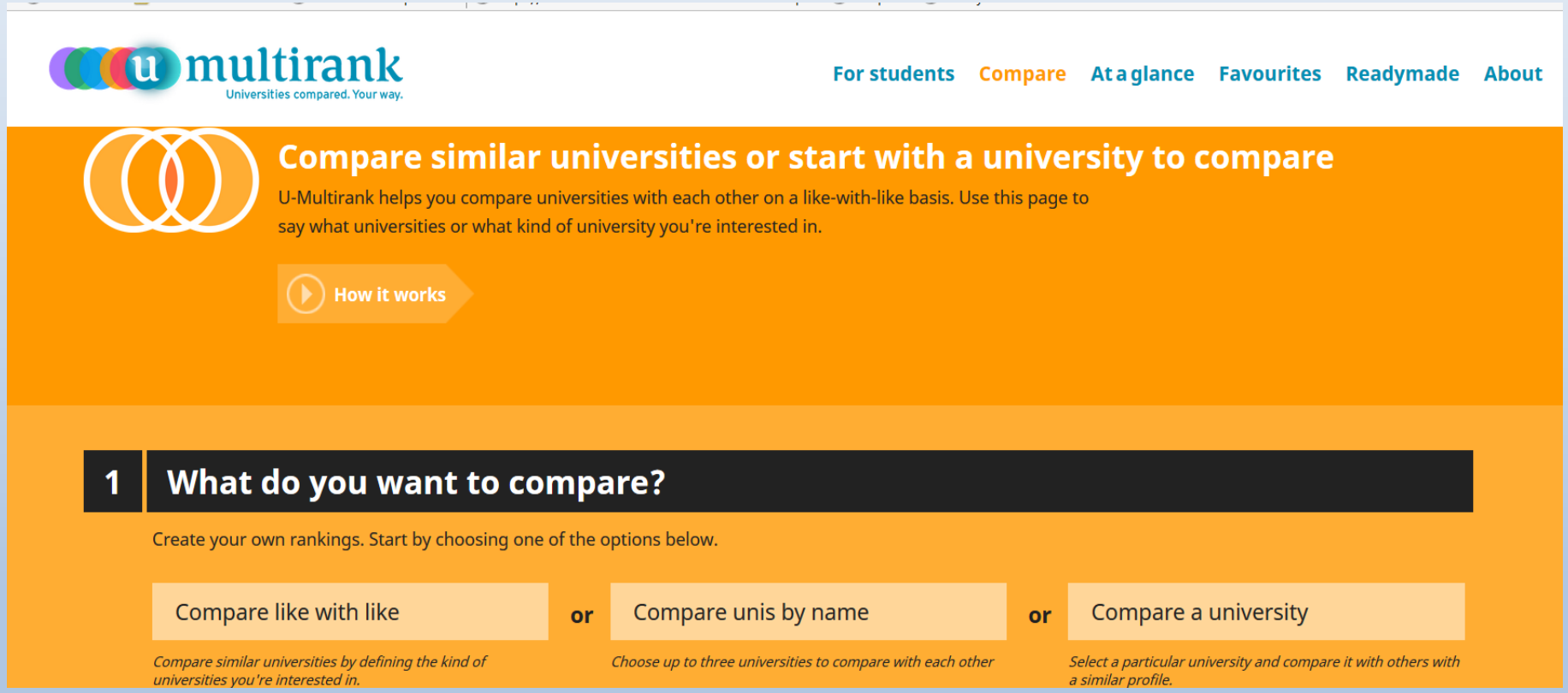
The U-Multirank web tool

The U-Multirank web tool: a user-driven tool



Since March 2016: Mobile version & App

The U-Multirank web tool



The U-Multirank web tool

Select a subject area

- Biology
- Business studies
- Chemistry
- Computer Science
- Electrical Engineering
- History
- Mathematics
- **Mechanical Engineering**
- Medicine
- Physics
- Psychology

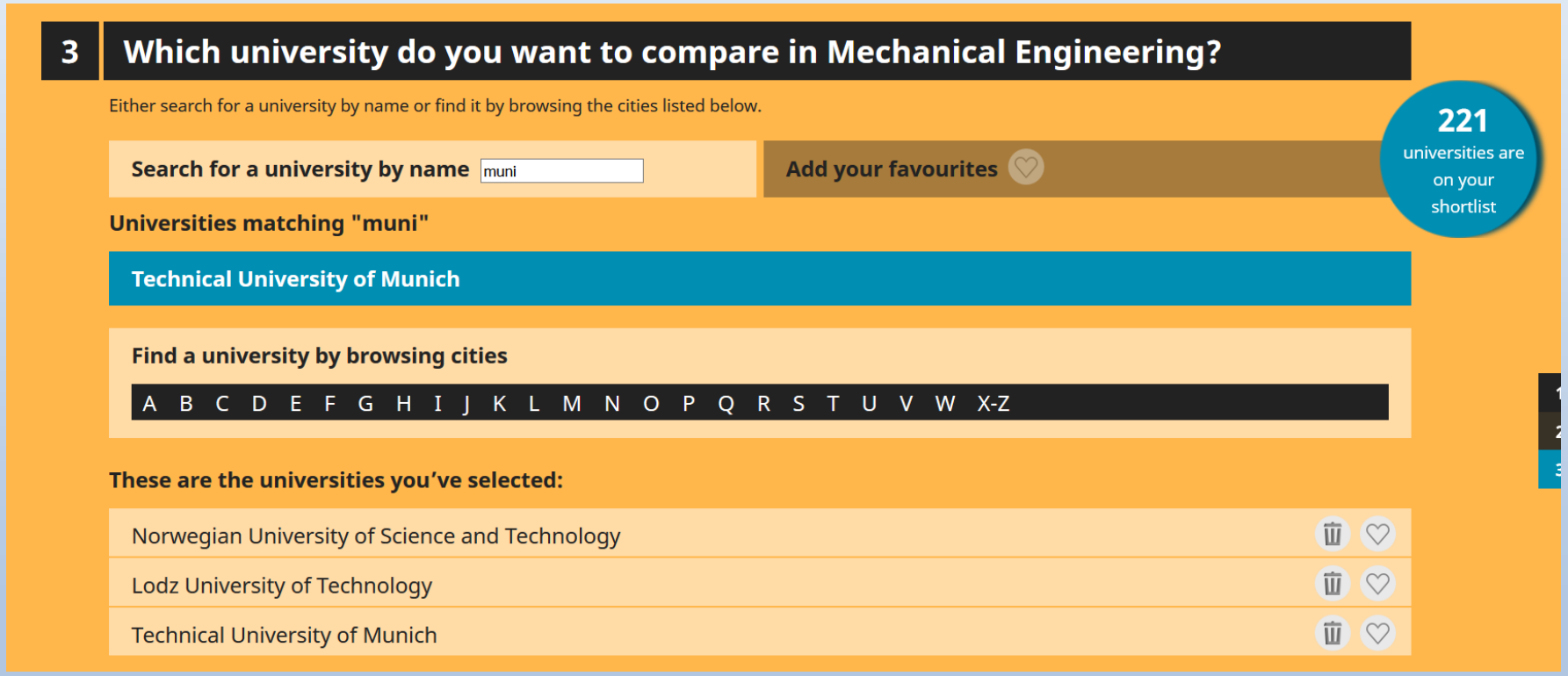
or

Compare universities

Compare universities as a whole

Choose this option if the subject area you want isn't listed on the left or if you don't want to consider subjects yet.

The U-Multirank web tool



The U-Multirank web tool

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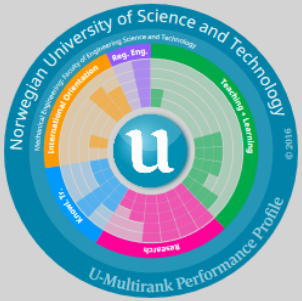
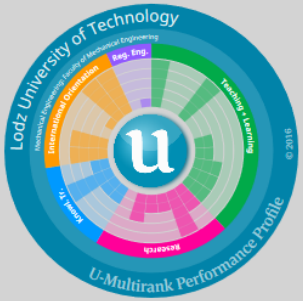
At a glance comparison of universities

Showing comparison for
Mechanical Engineering



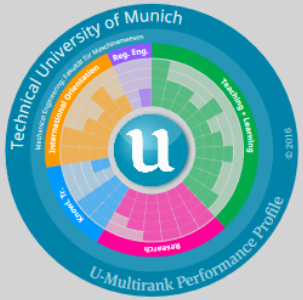
Norwegian U Science & Tech

Faculty of Engineering Science and Technology



Lodz U Tech

Faculty of Mechanical Engineering



Tech U München

Fakultät für Maschinenwesen

Teaching & Learning			
Graduating in time	-	-	-
Contact with work environment	-	-	-
Student-staff ratio	●	●	●
Graduating on time (bachelors)	x	-	●
Graduating on time (masters)	-	-	●
Academic staff with doctorates	-	●	●
Contact with work environment (bachelors)	-	-	●
Contact with work environment (masters)	-	-	●
Teaching & Learning (Students' views)			
Overall learning experience	●	●	●

The U-Multirank web tool

Room facilities			
Research			
External research income			
Doctorate productivity			
Research publications (absolute numbers)			
Citation rate			
Top cited publications			
Interdisciplinary publications			
Research orientation of teaching		-	
Post-doc positions			
Knowledge Transfer			
Income from private sources			
Co-publications with industrial partners			
Patents awarded (absolute numbers)			-
Publications cited in patents			
International Orientation			
Program international orientation	-	-	-
International orientation of bachelor programmes	-		
International orientation of master programmes			
Opportunities to study abroad	-	-	
International doctorate degrees	-		
International joint publications			
International research grants			
Regional Engagement			
Student internships in the region	-	x	-
Regional joint publications			

The U-Multirank web tool

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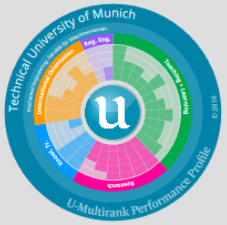
Technical University of Munich

Technical University of Munich
Arcisstr. 21
80333 Munich
Germany
University Website



- University as a whole
- Electrical Engineering
  - Fakultät für Elektrotechnik und Informationstechnik
- Mechanical Engineering
  - **Fakultät für Maschinenwesen**
- Mathematics
  - TUM Department of Mathematics
- Chemistry
  - Fakultät für Chemie
- Biology
  - Wissenschaftszentrum Weihenstephan für Ernährung, Land...
- Computer Science
  - Fakultät für Informatik
- Physics
  - Fakultät für Physik
- Business studies
  - Fakultät für Wirtschaftswissenschaften

Fakultät für Maschinenwesen

Teaching & Learning

	Score	Other universities / better >
Student-staff ratio	6.27	84.82 – 1.47
Graduating on time (bachelors)	65.12%	0 – 100
Graduating on time (masters)	69.75%	0 – 100
Academic staff with doctorates	7.79%	0 – 100
Contact with work environment (bachelors)	5/9	0 – 9
Contact with work environment (masters)	2/9	0 – 9

Teaching & Learning (Students' views)

	Score	Other universities / better >
Overall learning experience	2.07	6 – 1
Quality of courses & teaching	2.18	6 – 1
Organisation of program	2.49	6 – 1
Contact with teachers	2.22	6 – 1
Inclusion of work/practical experience	2.99	6 – 1
Library facilities	1.87	6 – 1

The Future of U-Multirank

Pre-view U-Multirank 2017

- More institutions will be included
- Data on top US research universities from publicly available data sources (IPEDS) + invitation to provide full data

- First update of 2014/2015 subjects plus inclusion of new subjects
- Subjects for 2017 release:
  - Business studies (update)
  - Economics (new)
  - **Mechanical engineering (update)**
  - **Electrical engineering (update)**
  - **Computer science and engineering (update)**
  - **Civil engineering (new)**
  - **Chemical engineering (new)**
  - **Industrial engineering/production (new)**

Pre-view U-Multirank 2017

- Number of registered department by subject:
  - **Mechanical engineering**
  - **Electrical**
  - **330**
  - **148**
  - **Industrial engineering/production** **91**
  - **Chemical engineering** **98**
  - ***Total number:*** ***1,069***

Integration Industrial Engineering into Mechanical Engineering Ranking?

Last minute registration is possible before 26 September (subject ranking) or 30 October (institutional ranking only)

Outlook

- Publication 2017:
  - New indicator on applied research (cooperation with UASNet /EURASHE)

- Outlook 2017 +
  - Further extension in terms of
    - number of institutions
    - number of subjects
  - Inclusion of indicators on social dimension/social conditions (cooperation with European student organisations)
  - Cooperation with other online portals ?

Outlook

- Development of a sustainable business model for 2017+:
  - Full funding by European Commission until March 2017
  - Open access, non-for-profit-tool
  - Stakeholder orientation
  - Additional “premium” benchmarking services for universities
  - Ownership and funding:
    - working to establish a consortium of intnational foundations/sponsors
    - Co-funding by European Commission

Registration for participation in U-Multirank 2017 is (still) open:

WWW.UMULTIRANK.ORG/#!/REGISTRATION

Contact us at:

info@umultirank.org

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