

SCIENTIFIC CULTURE OPENED TO THE TECHNICAL UNIVERSITY OF MOLDOVA



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Sustainable collaboration since 1997





Technical University of Moldova was founded in 1962

In the 55 years, the University has prepared more than **80,000 engineers**

At present, at UTM, **9640 students** study at:

license - 64 study programs; master - 43 study programs; doctorate - 36 study programs.

Sustainable collaboration since 1997





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The first cycle studies - the Bachelor's and the II-st master classes are organized in 9 faculties:

- Power Engineering and Electrical Engineering;
- Mechanical Engineering, Industrial and Transportation Engineering;
- Computers, Informatics and Microelectronics;
- Electronics and Telecommunications;
- Food Technology;
- Textiles and Polygraphy;
- Construction, Geodesy and Cadastre;
- Urbanism and Architecture;
- Economic and Business Engineering.

Sustainable collaboration since 1997





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PhD studies are organized in **3 doctoral** schools:

- Computer Science, Electronics and Energy;
- Mechanical and Civil Engineering;
- Food Science, Economics and Management.

Human potential involved in didactic and research activity







Scientific-Didactic Staff - 732 of which:

Academicians of the ASM - 3 Corresponding members of the ASM - 3 Doctors habilitated - 39 Doctors - 285

Priority research directions at UTM



Strategic Direction 1. Materials, technologies and innovative products

Strategic Direction 2. Energy Efficiency and Valuation of Renewable Energy Sources

Strategic Direction 3. Biotechnology

PREMISES FOR CREATION OF SCIENTIFIC CENTERS



The emergence of social problems requiring scientific approach;

Continuous development and perfecting new technologies to maintain competitiveness performance of local products on the world market;

Development and implementation of ideas, new performances, of international value;

Creating an academic environment and a material base for developing the scientific potential by domains;

Creating the necessary conditions for the training of young cadres in research, etc.

HERARY OF RESEARCH CENTERS AT UTM



Depending on the tasks submitted to the research centres' collectives and the issues that solve them, they are divided into:

Centers of excellence under self-management but within UTM;

Research centers / laboratories subordinated to UTM;

Research centers / laboratories subordinated to UTM faculties;

Research centers / laboratories subordinated to

HERARY OF RESEARCH CENTERS AT UTM



At present, within UTM, there are 31 research centers / laboratories:

- Autonomous centres of excellence but within UTM:
- Centre for Excellence in ICT Tekwill;
- Centre of Exception and Acceleration in Design and Technologies for light industry "ZIPHouse";
- Platform for digital manufacturing, industrial design and engineering,
 "FabLab Chisinau";
- Research Centres / Laboratories under TUM:
- National Centre for Material Study and Testing;
- National Centre for Spatial Technologies
 - ro-Optoelectronics Laboratory
 - 25 Centres / research laboratories subordinated to faculties and
 - departments of UTM

CENTER OF EXELLENCE OF THE TECHNICAL UNIVERSITY OF MOLDOVA



Centre of Exellence in ICT TEKWILL







Centre of Exellence and Acceleration in Design and Technologies in Light Industry "ZIPHouse"







Digital manufacturing platform, industrial design and engineering "FabLab - Chişinău"







RESEARCH CENTERS of the TECHNICAL UNIVERSITY OF MOLDOVA



National Center for Spatial Technologies







National Center for Material Study and Testing







Oenological Research Center







Policies of the UTM regarding the promotion of science



- Institutional Policy of the University on Open Access to Information, approved on January 26, 2016
- objectives:
- Ensuring the long-term management and conservation of the digital scientific works produced by the university community.
- Ensuring the widest possible access to the scientific work produced by the university community.

Strategy of the Technical University of Moldova in the field of Research-Development-Innovation for the period 2019 - 2023, approved on 25.09.2018

Priority 5. Increasing the national and international RDI visibility objectives:

- 5.1. Promoting scientific publications of academic staff
- 5.2. Enhance the visibility of RDI activities by presenting results in national and international scientific events
- 5.3. Continuous advancement of UTM ratings in international rankings of Universities
- 5.4. Popularizing RDI results

Promoting and disseminating research results through reporting



- The results of the research activity of the scientific-didactic staff at TUM annual report are hierarchically:
- At the Department Meeting the report of each collaborator and of the department as a whole;
- At the Faculty Council the report of the departments and the faculty as a whole;
- At the TUM Scientific Council the faculty report;
- At the Senate Tutorial activity at TUM.
- Each year, 2-3 scientific seminars are organized at department and college level.
- The annual reports of the research activity are placed on the UTM web site https://utm.md/cercetari-stiintifice/rapoarte-privind-activitatea-stiintifica-si-inovationala/
- The results of the TMR development research activity reported to the ASM are published on the Academy's website.

Promoting and disseminating research results at conferences



The annual UTM organizes a series of national and international scientific conferences and symposia. As an example in 2018, we organized:

- 6th edition of ICTEI 2018 International Conference on Telecommunications, Electronics and Informatics (24-27 May);
- The 22nd edition of the International Conference "ImanEE 2018" (May 31 -June 2);
- 25th Conference on Applied and Industrial Mathematics "CAIM 2018" (21-23 September);
- International Symposium "Cucuteni 5000 Redivivus" (18-20 May);
- International Conference, Fourth Edition "Modern Technologies in Food Industry" MTFI 2018 (October 18-20);
- IX International Technical and Scientific Conference "Current Problems of Urban Planning and Landscaping" (15-17 November);
- Interuniversity Scientific Conference "Sociomedical Sciences and Technical and Scientific Progress" (April 20);
- Workshop within the project "SMA.RI.GO.2, River contract. Implementation of the Botna river contract for integrated management of river areas "funded by KEP Italia (April-May);

Promoting and disseminating research results at exhibitions



The UTM annually organizes exhibitions to present the results of the

CREATIVITY OPENS THE UNIVERSE 4-5 May 2018









INTERNATIONAL DAY OF SCIENCE
November 10, 2018







Promoting and disseminating research results through the Technical-Scientific Library of UTM



- 1. Scientific publications purchased 1mln. 19 thousand documents from all fields of science and technology (annually about 1.2-1.5 thousand publications are purchased);
- 2. Lit. Scientific 282 thousand documents;
- 3. Lit. Didactics 720 thousand documents;
- 4. Lit. Artistic 19.5 thousand documents.
- 5. The library is subscribed to 57 scientific journals;
- 6. The subscription contract to Springer databases with a content of about 2000 magazines and 6000 e-books has been prolonged;
- 7. Within the project "Modernizing the Services of University Libraries in Moldova", financed by a Norwegian Program, UTM gained access to the Web of Science platform;
- 8. Teachers, students, master students and PhD students benefited from free access to 10 databases of science offered within the project "Electronic Resources for Moldova";
- 9. The Institutional Repository of the Technical University of Moldova relaunched.

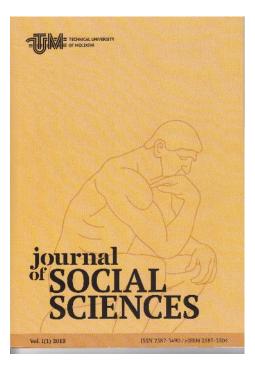
Open access magazines edited by UTM





- A. Industrial Engineering (8 domains);
- B. Electronic and Computer Science (5 domenii);
- C. Arhitecture, Civil and Environmen-tal Engineering (4 domenii);
- D. Food Engineering (4 domenii).

Total 21 domains



Two university journals were launched as a continuation of the magazine "Meridian Ingineresc":

1. Journal or Engineering Science

https://jes.utm.md

2. Journal of Social Sciences

https://jss.utm.md





17 fields of social sciences

Recent Revistele au fost plasate pe platforme digitale externe:

JES - http://digital-library.ulbsibiu.ro/dspace/handle/123456789/2269

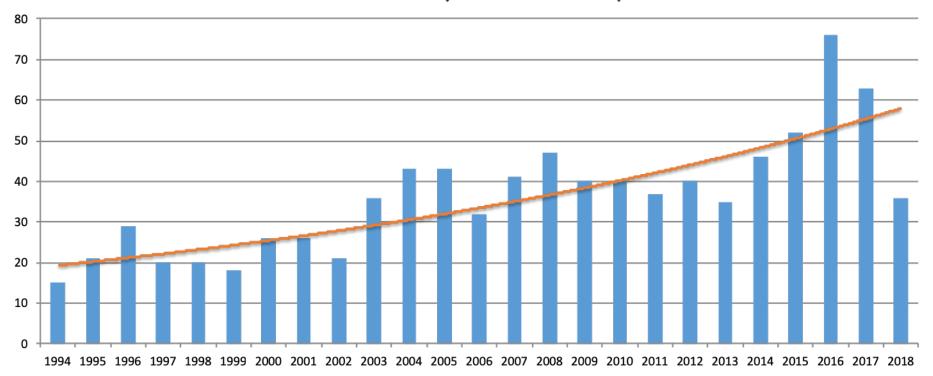
JSS - http://digital-library.ulbsibiu.ro/dspace/handle/123456789/2268

JES - https://zenodo.org/communities/jes_utm/

International visibility of UTM researchers



1994-2018 (Web of Science)



Articole – 903

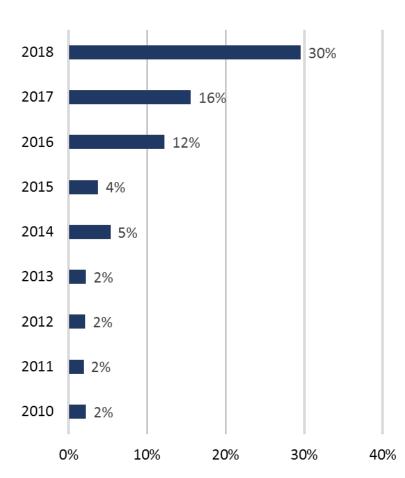
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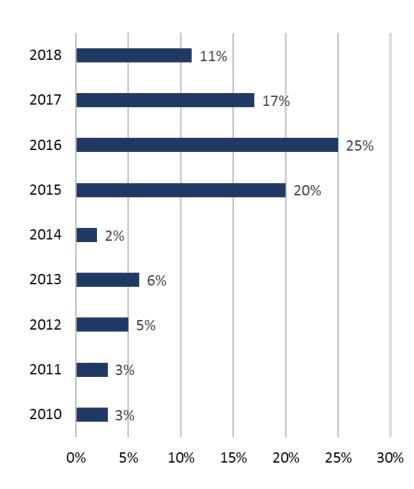
The share of open access articles of UTM in international databases







Web of Science



Open Research Infrastructures



The following pages are displayed on the web pages of the UTM research subdivisions:

- equipment of the subdivision.
- services provided by subdivisions.
- subdivisions provide scientific research services





Future plans



The development within TUM of the institutional management system of research-innovation with data accessible to the general public on:

- Researchers
- Subdivisions of research
- Research projects
- Equipment
- Services
- Results

Thank you for your attention!