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Биоактивни органични и неорганични
авангардни материали и чисти технологии



МИНИСТЕРСТВО
НА ОБРАЗОВАНИЕТО
И НАУКАТА

STRUCTURE AND ACTIVITIES OF THE CENTER FOR TECHNOLOGY TRANSFER AT THE UNIVERSITY OF CHEMICAL TECHNOLOGY AND METALLURGY



Assc. Prof. S. Kovacheva, Prof. N. Dishovski

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University of Chemical Technology and Metallurgy
(UCTM), Sofia, Bulgaria

Disciplines



Bachelor



Master's degree




Degree Doctor




Continuing and distance
learning


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University of Chemical Technology and Metallurgy (UCTM), Sofia, Bulgaria

Facts

Our achievements
over the years

Throughout the long history of the University there are a number of achievements that can guarantee the quality of the training offered

65

Years of
history

29999

Graduate
students

35

Accredited
majors

3996

Students per
year

3



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University of Chemical Technology and Metallurgy (UCTM), Sofia, Bulgaria

Transfer of Technology Center,

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Prof. Nikolay Dishovsky, Ph.D., D. Sc.
Head

Assoc. Prof. Dr. Stanislava Kovacheva
Expert financial and economic evaluations



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Why Technology Transfer Centers in Universities?

According to the opinions of business management in Bulgaria and data from the *Bulgarian Universities Ranking System* of from 2015:

- "The relationship between business and higher education in our country is still too weak";
- "Scientific activity in universities continues to be far from application in the real sector";
- "...most universities in our country have no more than 10% usage of their scientific products and services by business".



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ONE DIRECTION
MANY OPPORTUNITIES




EUROPEAN UNION
European Structural
and Investment Funds

PROGRAMMES 2014-2020	DOCUMENTS 2014-2020	DOCUMENTS 2021-2027
Good Governance		
Innovation and Competitiveness		
Science and Education for Smart Growth		
Environment		
Maritime and Fisheries Programme		
Rural Development Programme		
Human Resources Development		
Regions in Growth		
Transport and Transport Infrastructure		
Fund of Funds		
Community-led Local Development		
Programmes for Territorial Cooperation		


For the period 2015 – 2023 - change in Bulgarian universities:

- universities repeatedly increase their efforts in the search for methods and approaches for effective interaction with business;
- the creation of the university TTCs is supported through project funding;
- the activity of TTC is expected to greatly support universities in the interaction between higher education, scientific research and economic subjects in Bulgaria.


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Data on the progress of universities in the period 2015-2023 in the direction of the are published by:

- NSI;
- Ministry of Education;
- EU INFORMATION PORTAL;
- Bulgarian Business Association;
- Bulgarian university rating system;
- Universities, etc.

ic products and services by employers



BULGARIAN
UNIVERSITY
RANKING
SYSTEM

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University of Chemical Technology and Metallurgy - Sofia, is in 7th place according to the indicator "*use of scientific products and services by employers*" for 2022.

The university has deep traditions in the field of development and implementation of new technologies and is a sought-after business partner in all areas of the university's research activities.

Since 2008, the "Knowledge and Technology Transfer Office" has been established within the structure of HTMU, which has the mission of "stimulating, effectively managing and supporting contacts between UCTM and the industrial sector to facilitate the free exchange of knowledge, ideas and technologies with the aim of increasing the competitiveness of the Bulgarian economy".

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From 2023, the university begins a large-scale activity to organize, support and develop innovation activity by creating a specialized organizational structure

TECHNOLOGY TRANSFER CENTER (TTC)

under project BG-RRP-2.004-0002-C01, *BiOrgaMCT* (Bioactive organic and inorganic cutting-edge materials and clean technologies), procedure: BG-RRP-2.004 - Creation of a network of research universities in Bulgaria under the *National Recovery and Resilience Plan*.

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The **model for practical implementation of technology transfer** is the so-called "linear model" for TT.

According to this model, the main channels for TT from UCTM to industry are:

- university research funded by business;
- consulting services;
- patents with participation in joint inventive collectives;
- the "trainer-enterprises" in which TT is realized through the Master's training programs;
- participation of students in the research projects;
- conducting part of the students' training and their practices on the territory of this enterprise;
- and, ect.

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The Model of implementation of TT in UCTM includes **five main stages**:

- Effective monitoring of scientific research activity at UCTM;
- Selection of scientific achievements and results that can be protected and transferred;
- Providing assistance from the TTC in drafting the patent descriptions and shaping the patent claims;
- Development of specific approaches for the realization of the research results of these developments;
- Monitoring the development and supporting the realization of TT with marketing studies, financial and economic evaluations, investment evaluations, business plans, etc.

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Main conclusions and expectations from TTC:

- All universities in Bulgaria have established structures aimed at the transfer of knowledge and technologies of different types and with a specific structure - technology transfer centers and/or offices, competitiveness centers, entrepreneurship promotion centers, innovation centers, etc.;
- The established centers and institutes in these universities are in the areas of the professional fields in which the universities teach and in which they have well-developed research activities and proven high scientific achievements;

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Main conclusions and expectations from TTC:

- Structures aimed at interaction with business have and maintain well-organized information channels and tools that support communication with interested parties and target groups;
- Universities are moving towards integrating technology transfer centers with career development centers, business incubators, entrepreneurship centers, etc. aimed at the realization of graduates. This has a direct relationship with the choice of majors studied at universities by future students.

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Thank you for your attention!