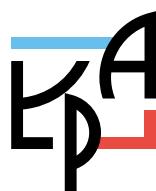




Lodz University
of Technology

REPORT ON THE ACTIVITIES OF LODZ UNIVERSITY OF TECHNOLOGY 2024



Łódzkie
Partnerstwo
Akademickie
im. Jana Karskiego



HR EXCELLENCE IN RESEARCH

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Ladies and Gentlemen,

The inauguration of the 2024/2025 academic year marks the beginning of Lodz University of Technology's 80th anniversary celebrations. I am very happy that the response of our community to the jubilee events has been so cordial. On one hand, we hold a well-established position in the landscape of higher education; on the other, we are driven by an energy and a readiness to embrace new and ambitious challenges. Our focus is always on pioneering research, forward-thinking education, enhanced cooperation, and driving positive change in our environment.

The past year was full of important events. Elections of the university authorities for the 2024-2028 term were held. I would like to once again express my heartfelt thanks for your confidence and support during the election for rector. I also thank my co-workers who continue this mission with me.

In 2024, the Scientific Council of IDS TUL launched the first edition of its recurring competition for doctoral students, aimed at providing financial support to those who have authored publications in top-tier scientific journals.

We take great pride in our students' development – from conducting impressive research projects within the E²TOP program, to achieving international success through active participation in student clubs and organizations, as well as earning numerous awards and distinctions.

Our position among higher education institutions continues to grow stronger. TUL is one of the 13 universities forming the elite ECIU network which opens up new areas of international cooperation. I am pleased to observe that we are increasingly capitalizing on the opportunities afforded by this network.

The TUL campus is also changing. We have opened the A7 building as a space for creative research work. Its renovation is the best proof of the implementation of the sustainable development goals.

With prospective candidates for students in mind, we have launched a new website dedicated to recruitment, expanded our outreach and promotional activities, and continuously strive to maintain the strongest possible online image of TUL.

These represent only a few of the activities carried out during the period under review. I invite you to read the Lodz University of Technology Activities Report 2024 and extend my sincere thanks to the entire academic community for their dedication and hard work.

Rector of Lodz University of Technology
Professor Krzysztof Jóźwik Ph.D., D.Sc.

Assoc. Prof. Jacek Kucharski Ph.D., D.Sc. was nominated by the Polish Accreditation Committee for the 2024–2027 term. The nomination act was formally presented during the plenary session of the Polish Accreditation Commission's 7th term.



[Convention of Deans of Faculties of Chemistry](#) organised by the University of Lodz and Lodz University of Technology. The event was attended by over 100 deans and vice-deans of chemical faculties from universities across Poland, along with representatives from the Ministry of Science and Higher Education, the Council of Scientific Excellence, the Polish Accreditation Committee, and Polish Chemical Society.



The second edition of [Research Week](#) was held - a week-long series of events for the academic community focused on scientific research and opportunities for securing project funding.



[Prof. Krzysztof Józwik was elected rector of Lodz University of Technology for another term.](#) From 2024 to 2028, he will lead the implementation of the program under the slogan, "Lodz University of Technology – Our Common Good".



JANUARY



Chinese university [Jimei University](#) became a new partner of Lodz University of Technology.

FEBRUARY



The first in a series of ["Women, Do Science"](#) meetings was held at TUL. The ambassadors of the event at TUL were Prof. Marta Gmurek, PH.D., D.Sc. Katarzyna Nawrotek and Beata Rurarcz, M.Sc.

[Natalia Jabrzyk, a TUL student, won 2 individual gold medals at the 1000- and 1500-meters distance at the Academic World Championships in speed skating](#), as well as a bronze medal in the women's team race.

MARCH



[The National Materials Engineering Day at TUL](#) brought together almost 100 students from high schools in Lodz.

APRIL



Among the experts nominated under the European Commission's Scientific Advice Mechanism to prepare [a report on the use of artificial intelligence in science](#) was Prof. Anna Fabijańska from TUL.

CHRONOLOGICAL REVIEW

In the [16th edition of Forbes Diamonds 2024](#), awarded to the most dynamically growing companies in Poland, TUL was ranked 13th in the Lodz region, among companies with revenues of more than PLN 250 million.



Ceremony granting [the title of doctor honoris causa to Prof. Jacek Moll](#) – an outstanding medical doctor, creator of the Cardiac Surgery Clinic at the Institute of the Polish Mother's Health Center.



Vice-Rector for Science at TUL, Prof. Łukasz Albrecht became [the Vice-Chair of the College of Vice-Rectors for Science and the Development of Public Technical Universities.](#)

Prof. Lukasz Albrecht, Vice-Rector for Science at TUL, was appointed to [the Supervisory Board of EIT Health InnoStars](#), where he represents the Polish partners of EIT Health.



MAY



Juwenalia 2024 at TUL took place under the slogan: ["Juwenalia bring us fame — Polibuda shouts AVE in name!"](#)

JUNE



Rector of TUL Prof. Krzysztof Józwik was elected Chairman of the Conference of Rectors of Polish Technical Universities in 2024–2028.



JULY



[The 10th TUL Rector's Cup Regatta](#) was held at the base of the TUL Sailing Club in Roganty on Lake Dargin.

AUGUST

TUL joined an elite group educating future specialists in IT cyber security and communications, as part of Project [Academy_CYBER.MIL](#) implemented by the Ministry of National Defence.

The Voxel Research Lab team of IT specialists from TUL became a partner in the new [VR Health Champions](#) project financed under the Horizon Europe program.

SEPTEMBER

Prof. Tomasz Kubiak from the Faculty of Mechanical Engineering became the [chairman of the Advisory Group for Research Infrastructure](#).



TUL together with seven other Polish universities signed a cooperation agreement with [Poland in Silicon Valley. Center for Science, Innovation, and Entrepreneurship](#). The Center serves as a bridge for the exchange of knowledge, experience, and resources between Polish institutions and Silicon Valley in the United States.

OCTOBER

During the ceremonial session of the Senate, [the honorary doctorate of Lodz University of Technology was awarded to conferred upon Prof. Bogustaw Buszewski](#), an outstanding specialist in analytical chemistry, bioanalysis and environmental chemistry.



[A joint photo of the academic community of Lodz University of Technology](#) marked the official beginning of the celebrations for the University's 80th anniversary.

NOVEMBER

At the formal session of the TUL Senate, [decorations and medals were presented to distinguished staff and awards were given to outstanding students and graduates](#).



Students of Lodz University of Technology won 66 scholarships in [the Cosmic Scholarships](#) competition organized by 'Youth in Lodz'.

After a few years' break, the [Academic Sport Gala of Lodz University of Technology](#) was held, during which the best TUL athletes and their trainers were awarded.

DECEMBER

TUL hosted [the 44th General Assembly of the Academy of Engineering in Poland](#), during which an institutional partnership agreement was signed with the Academy of Engineering in Poland.



The third edition of the "[Mechaton](#)" engineering competition was organized in cooperation with Common S.A.

COMMUNITY OF LODZ UNIVERSITY OF TECHNOLOGY



2 509 staff members

284 doctoral students

1 205 academic teachers

590 international students and doctoral students

10 488 students

STUDENTS

In 2024, Lodz University of Technology educated 2.6% more students than in the previous year. The most popular fields of study, each with over 500 students, were Applied Computer Science (897), Information Technology (838), Architecture (607), and Civil Engineering (522).



36.1% women



170 students with disabilities

TUL Students (first and second cycle) in 2022–2024*

	2022	2023	2024
Total	10 593	10 227	10 488
Full-time studies	8 931	8 768	9 127
1st cycle	7 504	7 492	7 738
2nd cycle	1 427	1 276	1 389
Part-time studies	1 662	1 459	1 361
1st cycle	853	782	756
2nd cycle	809	677	605

* data for the full cycle of education, as of December 31.

A total of 537 international students (planning to study in Poland for at least one academic year) studied at Lodz University of Technology, including:

- full-time studies – 520,
- part-time studies – 17.

International students 2022-2024

International students accounted for **5.1%** of the total number of students.

The largest groups of international students came from Ukraine (316), Belarus (88), France (20), Italy (16), and Turkey (9).



Graduates

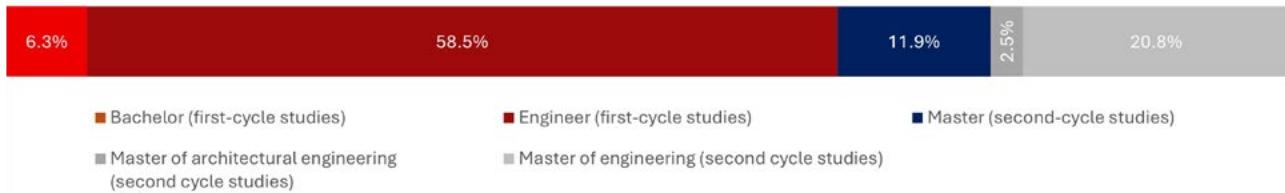
In 2024, a total of 2,331 students graduated from Lodz University of Technology, including 57 were international graduates.

44.7% women

TUL Graduates in 2022-2024

	2022	2023	2024
Total	2 606	2 494	2 331
Full-time studies	2 167	2 061	1 953
Part-time studies	439	433	378

Graduates by degree obtained in 2024

**Student Government**

The TUL Student Government launched several cultural initiatives and events designed to foster integration within the student community, including:

- Juwenalia 2024;
- Adapciak TUL 2024;
- "SkillUp!" training and integration conferences;
- "The best of 10" general knowledge quiz for students of TUL;
- coordinating the TUL Collection Centre of Great Orchestra of Christmas Charity;
- Student Activity Gala 2024;
- plebiscite for the Best Teacher of the Academic Year 2023/2024
- second edition of the TUL Winter Ball.



As part of the new "EduCare" initiative, 89 volunteer TUL students provided tutoring in maths, English and physics to children from orphanages. Fifteen facilities received support.

The TUL Student Government conducted over 20 information and marketing campaigns on social media. One of these campaigns promoted psychological assistance to raise awareness among TUL students about the availability of free psychological support and the importance of maintaining good mental health.

Student representatives actively participated in the Field of Study Councils, contributing to the development of new study programs. Members of the Student Government also conducted mandatory training for all first-year students on "Student Rights and Responsibilities".

Successes of students and research clubs

TUL students developed their skills and passions in 57 research clubs operating at TUL in 2024, which create a space conducive to gaining experience in teamwork. The year 2024 saw TUL students and research clubs accomplish a series of remarkable successes, including:

Maciej Szulczewski, a student of Mechanical Engineering at the Faculty of Mechanical Engineering/IFE, was nominated as a member of the Student Council of the President of the Polish Space Agency.

Konrad Stefaniak, a student of the Faculty of Chemistry, was the winner of the competition for the most innovative applications of plastics in scientific work, announced by the Polish Union of Plastics Converters.



Disco Angels won the Indie Showcase competition in the Best Gameplay category.

The Gust team took first place in the final of the International Small Wind Turbine Contest in the Sustainability category.



Lodz Solar Team won the title of European Vice-Champion and Polish Champion during the iLumen European Solar Challenge.



The Raptors team stood on the podium five times in the Droniada Challenge competition, which was held on the Fields of Mars in the Silesian Park.



In the 4th edition of the Ministry of Science and Higher Education competition "Student Research Clubs Create Innovations," the Lodz Solar Team project received funding, while the "Support for Students in Improving Their Competences and Skills" program approved three projects from TUL for financing.

In the 'Student' category of the Lodz Programmer of the Year 2024 competition, organized by the Lodz ICT Cluster, two students from Lodz University of Technology were among the five winners.

Academic Sports Club AZS TUL

Lodz University of Technology is home to the Academic Sports Club AZS TUL, which had approx. 600 students/members in 2024. They pursued their sports interests in 24 sports sections: volleyball, basketball, soccer, handball, futsal, powerlifting, athletics, swimming, judo, karate, sports climbing, sports aerobics, tennis, table tennis, snowboarding, skiing, floorball, badminton, indoor rowing and bridge.

The athletes of the AZS TUL Club took part in over 43 competitions:

MEDALS:

- **8 gold, 7 silver and 4 bronze** medals in the individual general classification;
- **18 gold, 5 silver, 16 bronze** medals in the individual classification of technical universities;
- **1 silver** and **2 bronze** medals in the general team classification;
- **1 gold, 4 silver and 2 bronze** medals in the team classification of technical universities.

PLACES WON:

- **7th** place in the medal classification;
- **6th** place in the classification of technical universities;
- **13th** position in the general classification.



Gold medallists Miłosz Kruk and Maciej Kaszewiak at the Polish Academic Championships in beach volleyball



Gold medallist Jakub Korzeniowski at the Polish Academic Championships in sport climbing

The Academic Sports Gala of Lodz University of Technology took place, during which 32 students were honoured—recognized in partnership with the TUL Foundation—for their outstanding athletic achievements and exemplary representation both nationally and internationally. The total amount of One-time Sports Scholarships prizes amounted to PLN 40,000.

DOCTORAL STUDENTS

Doctoral studies were discontinued on December 19, 2024; therefore, as of December 31, 2024, the number of doctoral students refers exclusively to those enrolled in the Interdisciplinary Doctoral School of TUL.



44.4% women



10 doctoral students with disabilities

PhD students at TUL in 2022-2024*

	2022	2023	2024
Total	445	312	284
Doctoral Studies	158	64	-
Interdisciplinary Doctoral School	287	248	284

* as of 31 December of a given calendar year

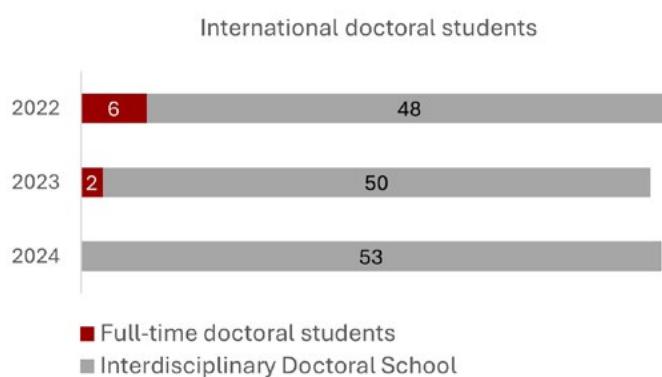
In 2024, Lodz University of Technology enrolled 53 international doctoral students, representing 18.7% of the total doctoral student population. There were 18 women among the international doctoral students.

The largest groups of foreign doctoral students came from the Islamic Republic of Iran (13), India (10), Pakistan (6), and China (5).

Doctoral Student Government

The TUL Doctoral Student Government organized events aimed at integrating and fostering the academic growth of the doctoral community, including the Doctoral Student's Day as part of Research Week. Representatives of doctoral students also took part in co-organizing Women in Science Day as part of the "Girls for Science" program, as well as the 11th Symposium of Doctoral Students on Chemistry—a collaborative initiative involving doctoral students from the University of Lodz, Lodz University of Technology, and the Centre for Molecular and Macromolecular Studies of the Polish Academy of Sciences in Lodz.

At TUL, the Congress of the Agreement of Doctoral Students of Technical Universities was held, during which the internationalization of the academic community was a key topic of discussion. The internal deliberations also provided an opportunity to review current activities and discuss future plans.



STAFF

In 2024, Lodz University of Technology employed a total of 2,509 people. Compared to the previous year, total employment decreased by 3.5%.



52.8% women



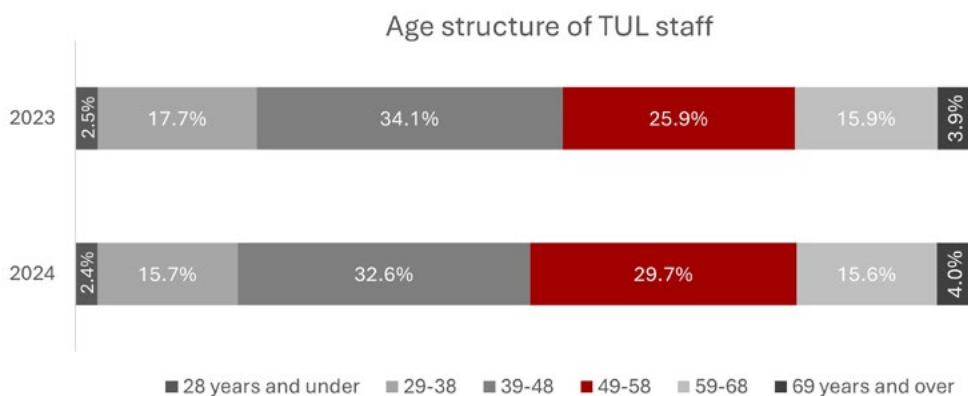
44 foreigners



64 persons with disabilities

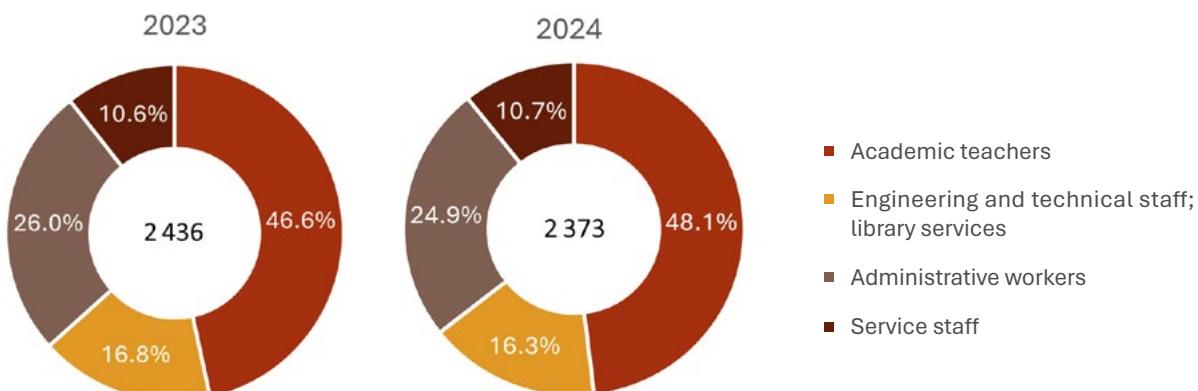
A total of 50 people retired, including:

- **34** non-academic staff,
- **16** academic teachers.



The largest age group was 39–48 years old, with women accounting for 58.9%. Women were also in the majority in the 49–58 and 29–38 age groups, at 56.2% and 51.5% respectively.

Employment structure by employee groups (FTEs)

**Academic teachers**

In the group of academic teachers, employment increased by 0.8% compared to the previous year.



39.9% women



35 foreigners

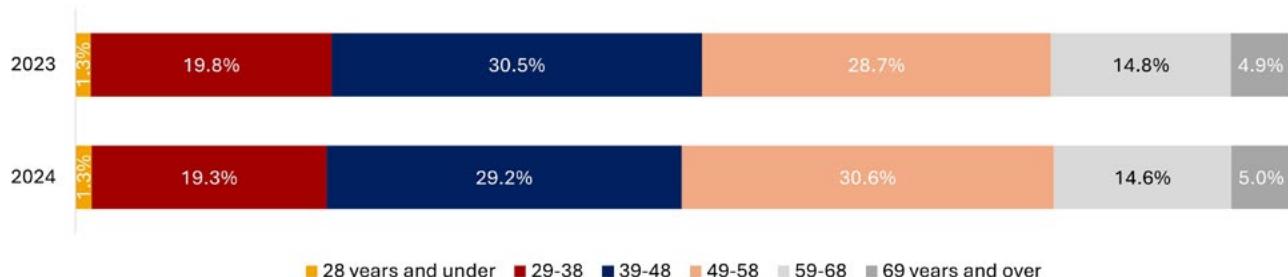


13 persons with disabilities

Employment of academic teachers

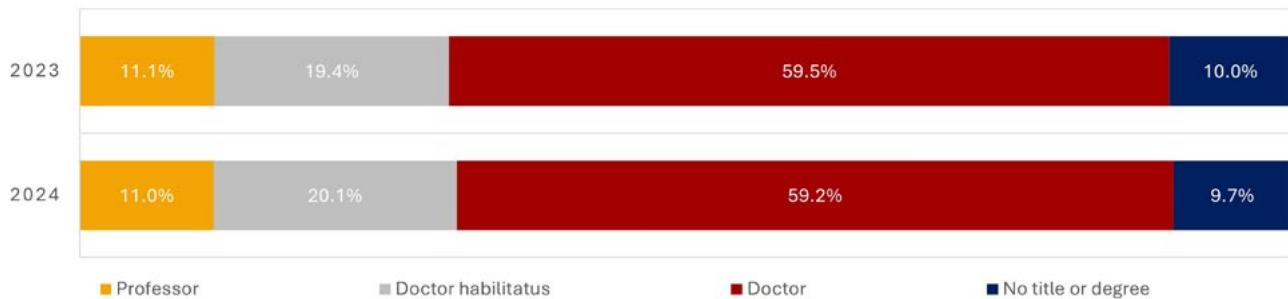


Age structure of academic teachers

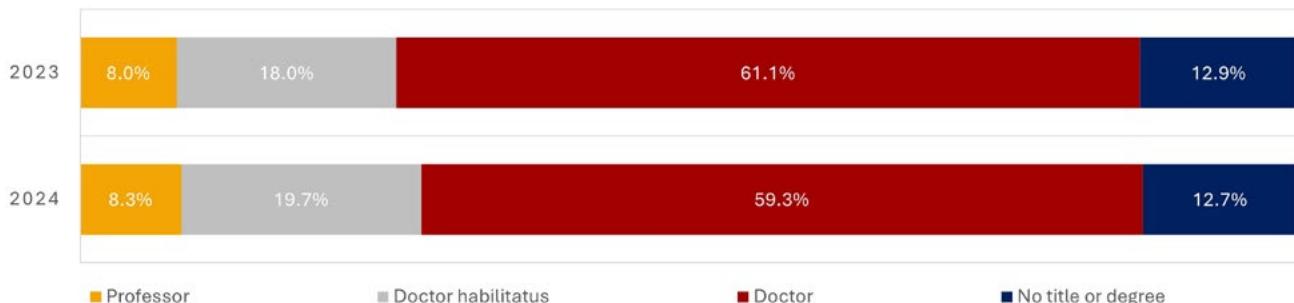


Academic teachers by title or degree

TOTAL



WOMEN

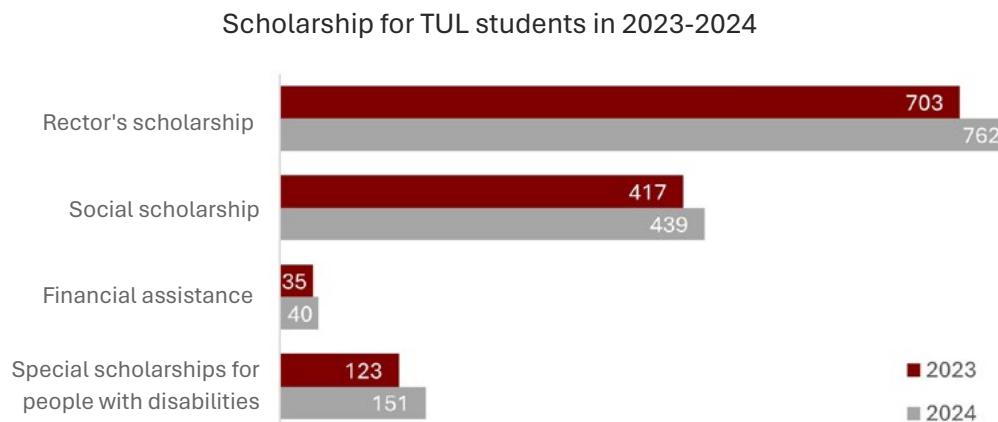


SUPPORT FOR TUL COMMUNITY

Material assistance and scholarships

Students and doctoral students facing temporary difficult life situations were eligible to apply for support. In 2024, 35 TUL students received such assistance.

The number of students awarded the Rector's scholarships for outstanding academic performance increased by 8.4% in 2024 compared to the previous year.



Scholarships from the Foundation of TUL

In 2024, the Foundation of Lodz University of Technology organized the 12th edition of the "Scholarships to the Power" program. Out of over 119 applications submitted by first- and second-cycle students, from all faculties of TUL selected 15 winners, each of whom received a one-time scholarship of PLN 5,000.

Scholarships of the Marshal of the Lodz Voivodeship

The Marshal of the Lodz Voivodeship awarded one-time scholarships to the best students from the Lodz region for the 18th time. In total, 35 people received scholarships, including eight students from TUL.

Scholarships from the President of the City of Lodz

The 14th edition of the scholarship program of the President of the City of Lodz in the academic year 2024/2025 produced 32 finalists and laureates of subject Olympiads, including 10 first-year TUL students. The scholarships amounted from PLN 1,100 to PLN 1,500 per month, depending on achievements.

Scholarships for outstanding students

Nine students of Lodz University of Technology were among the winners of scholarships from the Minister of Science and Higher Education for significant scientific, artistic or sports achievements for the academic year 2023/2024.

TUL Residential Campus



45	people from IDS TUL
180	students of other universities
195	non-students
544	first-year students
990	higher years students
47	doctoral students
39	staff members of the University
102	international students as part of the Erasmus+ exchange program

Revenue from student accommodation rentals increased by 10%, driven by a higher number of people using the accommodation. Inflows from so-called ad hoc accommodation increased by 17%, while revenue from the rental of premises and advertising space increased by 5%. In 2024, there was a 6% overall increase in accommodation, including a significant 40% rise among international students participating in the Erasmus+ exchange program.

Social welfare of staff members

Employees, pensioners, and their eligible family members made use of four holiday resorts operated by Lodz University of Technology:

- Holiday Resort "CIS" in Szklarska Poręba,
- Holiday Resort "Dworek" in Konopnica,
- Holiday Resort "Niespodzianka" in Wiartel near Pisz in the area of the Great Masurian Lakes,
- Holiday Resort "Zenit" in Jastrzębia Góra near Władysławowo, and the Sailing Base of TUL in Roganty

Type of funding from the Social Benefits Fund	Number of beneficiaries	Amount (in PLN)
Allowances for various forms of holiday recreation in TUL resorts	411	496 938
Individual holiday recreation allowance ("self-arranged countryside holiday")	5 459	2 998 650
Recreation of children of eligible persons	2 782	2 846 100
Christmas box allowance for children	714	86 300
Allowance for childcare in nurseries and kindergartens	81	88 181
Hardship benefits	182	472 300
Senior Citizens' Club (trips, theatre tickets, concerts, club meetings) approx.	approx. 200	97 237
Recreational (fishing club, excursions) and cultural-educational activities (concerts, meetings and TUL art gallery)	approx. 400	164 474
Housing loans (for the purchase of an apartment or house and for renovation and modernization)	135	2 293 118
Sports and recreational activities	242	37 903
Employee pension scheme	1 227	1 020 136
Sailing Club	approx. 250	155 404

Sports activities for Lodz University of Technology employees

The TUL Sports Centre continued to offer a variety of sports activities taking into account the interests and needs of the University's employees. The Centre's offerings included swimming lessons and skill improvement classes, aqua gymnastics, fitness, stretching and stabilization exercises, pilates, body art, yoga, aerobics, healthy spine workouts, as well as Latin and ballroom dance classes, with approx. 200 TUL employees participating in them. These large-scale initiatives were made possible in part through collaboration with the Sports Bay, which hosts swimming and dance classes.

In 2024, for the first time, employees benefited from a new perk: co-financing for a pool membership card at the TUL "Sports Bay".

Office for Persons with Disabilities (BON)

The task of the Office for Persons with Disabilities is to provide comprehensive and extensive assistance to TUL students and doctoral students with health problems and create conditions for their full participation in the educational process.

In 2024, the Office for Persons with Disabilities provided services to 843 students and doctoral candidates, along with 72 staff members, all of whom have disabilities or special health needs.

The Office for Persons with Disabilities provided:

- psychological consultations in Polish, English and Ukrainian,
- psychiatric consultations with a specialist,
- anti-addiction support,
- professional activation of students with disabilities, educational and professional coaching,
- provision of specialized equipment, including learning aids,
- support in the education process through the organization of additional complementary teaching and language classes,
- consultations on the accessibility of the University in the area of architecture, digital, information and communication, and education.



Occupational Health and Safety

In 2024, the OHS department carried out:

Trainings:



initial OHS for **186 people**;



periodic OHS: **462 persons** trained in the form of guided self-education, **62 persons** in the form of instruction.

Health and Safety inspections of organizational units:



11 inspections;



459 recommendations issued.

EDUCATION



6 538 candidates for first-cycle studies

68 fields of study

66 doctoral candidates admitted to IDS TUL

288 postgraduate students

ADMISSIONS

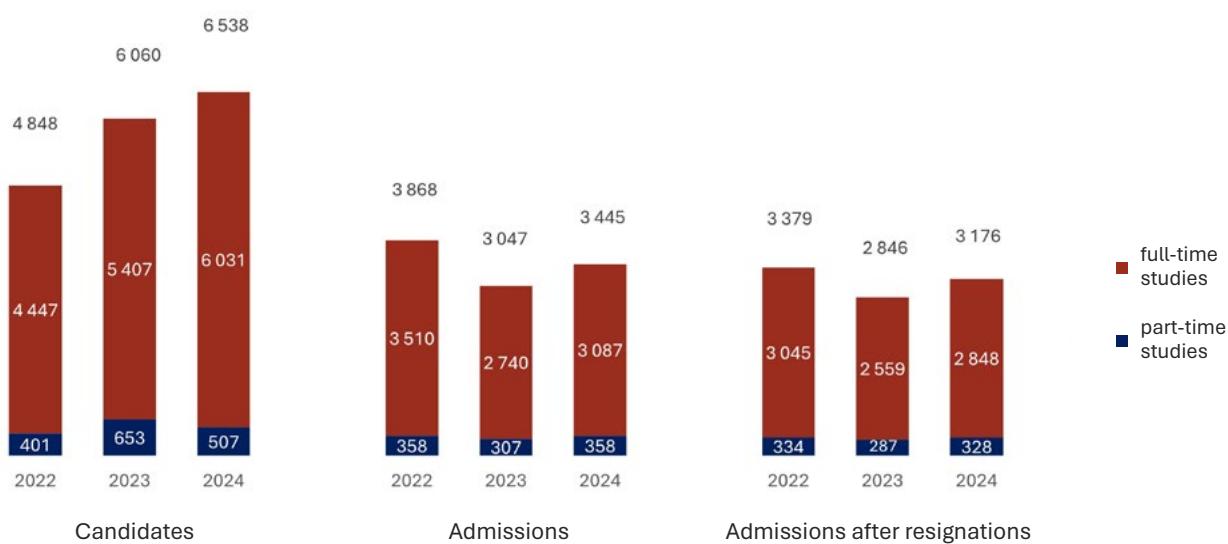
The 2024 enrolment figures encompass first- and second-cycle admissions starting in the winter semester of the 2024/2025 academic year, as well as second-cycle admissions from the summer semester of the 2023/2024 academic year.

In the 2024 enrolment process, the University offered a total of 4,184 places for Polish citizens at first cycle studies, with 1,627 places available in the summer semester and 1,245 in the winter semester. The admission limits were 490 places for foreigners in first-cycle studies, and for second-cycle studies 284 places in the summer semester and 237 places in the winter semester.

Candidates and admitted persons

The vast majority of first- and second-cycle candidates came from the Łódź Voivodeship, accounting for 68% of first-cycle and 87% of second-cycle applicants. The next five voivodeships in terms of the number of candidates were: Mazowieckie (1st cycle: 12%, 2nd cycle: 5%), Wielkopolskie (1st cycle: 5%, 2nd cycle: 2%), Kujawsko-Pomorskie (1st cycle: 3%, 2nd cycle: 1%), Śląskie (1st cycle: 3%, 2nd cycle: 1%) and Świętokrzyskie (1st cycle: 2%, 2nd cycle: 1%).

Admissions to first-cycle studies in 2022-2024



Admissions to second-cycle studies in 2022-2024



Participation of students admitted to studies by gender

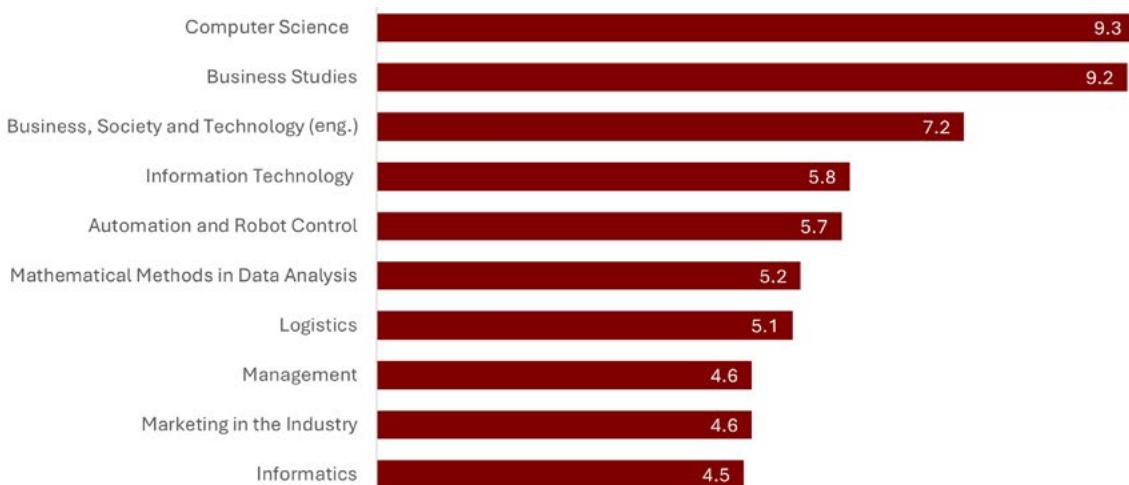


In 2024, the number of foreign students admitted to first-cycle studies tripled, rising to 241 compared to 77 in 2023, while admissions to second-cycle studies nearly doubled, increasing to 49 from 26 in 2023.

Before the academic year began, international students were invited to an onboarding and integration session at TUL, where they received valuable information to help them adapt to a new culture and smoothly transition into academic life. Newly admitted international students participated in games and activities, they met their mentors – senior international students providing support in the first year of study.



Most popular fields for first-cycle studies by number of candidates per place



A total of 24 laureates and finalists of central-level Olympiads were admitted to the first year of first-cycle studies, representing a 17% decrease compared to the previous year, in the following fields of study:

- Computer Science
- Electronics and Telecommunications
- Informatics
- Information Technology
- Applied Computer Science
- Biomedical Engineering
- Mathematical Methods in Data Analysis
- Mechanical Engineering
- Modelling and Data Science
- Food Technology and Human Nutrition
- Transport
- Textiles and Fashion Industry
- Design

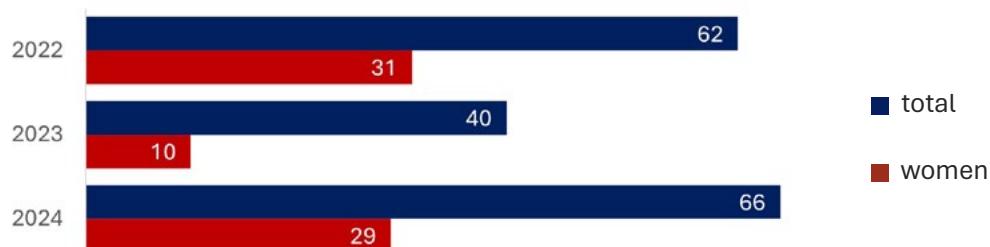
Admissions to the Interdisciplinary Doctoral School of TUL

The admissions process for candidates to the IDS TUL was conducted via the TUL Admissions Website as part of the Ministry of Science and Higher Education program "Implementation Doctorate" and in regular mode. The admission limit in the regular mode for the academic year 2024/2025 was 60 students.

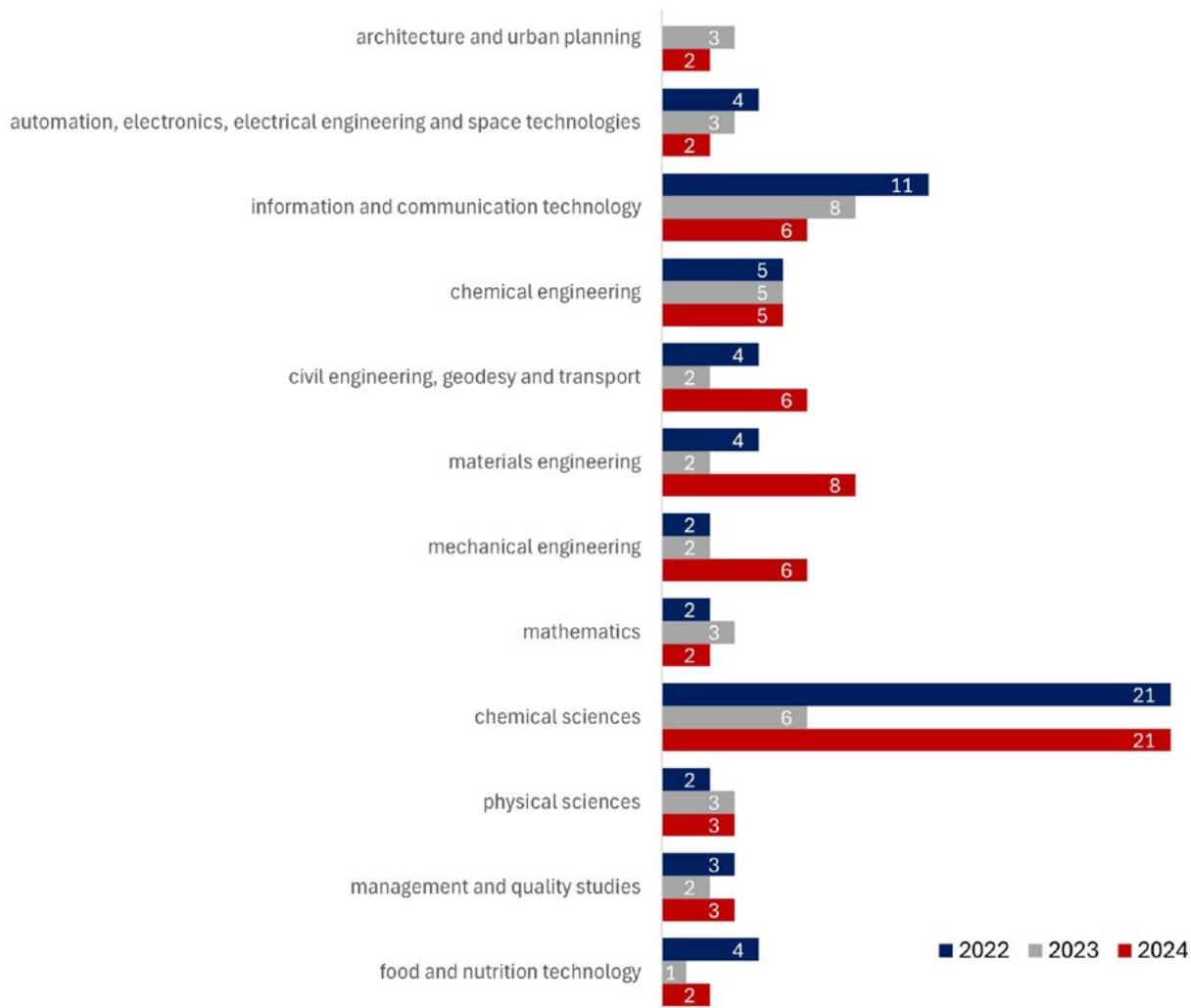
In 2024, the University also admitted six young scientists in the field of chemical sciences as doctoral students through project-based recruitment, upon the request of the project leaders.

In 2024, international doctoral students made up 15% of the new cohort at IDS TUL, representing countries such as Iran, Ethiopia, Great Britain, Pakistan, and India.

Admissions to IDS TUL in 2022-2024



Admissions to IDS TUL in 2022-2024 by discipline



EDUCATIONAL OFFER

First- and second-cycle studies

The educational offerings at Lodz University of Technology grow richer each year, driven by strong partnerships and collaboration with industry. Observing changes in the socio-economic environment, the University is improving educational programs to ensure the effectiveness of learning in accordance with the needs and expectations of stakeholders.

In 2024, the university offered education in 68 fields, including 24 in English and one in French. Lodz University of Technology educated students at 9 faculties and at the International Faculty of Engineering (IFE).

Lodz University of Technology consistently embraces new challenges to expand and enhance its educational offerings. Candidates at TUL had the opportunity to choose from three new first-cycle programs and two new second-cycle programs.

New fields of study

New fields of study		
FIRST CYCLE STUDIES		
Industrial Process Engineering	Future Materials and Technologies	Textronics
SECOND CYCLE STUDIES		
Materials and Technologies	Industrial Process Engineering	

International Faculty of Engineering (IFE)

In 2024, the International Faculty of Engineering (IFE) admitted 361 students to first-cycle studies and 141 students to second-cycle studies across 16 fields of study.

A total of 189 students graduated from IFE, which is known for implementing and applying the most innovative educational methods, including the student-oriented flipped education model.

Micromodules and Challenges

Lodz University of Technology's membership in the European Consortium of Innovative Universities ECIU provides the University's students with the opportunity to benefit free of charge from the educational offer prepared by members of the ECIU. This offer consists of two forms of education: micromodules and challenges.

TUL students engaged actively in these two forms of education, earning a total of 312 credits from completed modules in 2024. They accounted for 26% of all credits within the entire ECIU, placing TUL in 1st place among ECIU consortium members in terms of the largest share of the use of the offered modules.

In 2024, Lodz University of Technology issued its own educational offer on the ECIU engage.eciu.eu platform, comprising 7 thematic modules.

E²TOP - program for the most talented students

As part of pro-equality activities related to supporting ambitious and talented young people, implementation of the E²TOP (Excellence in Engineering Talents in Research with Opportunities Program) continued, giving students the opportunity to benefit from a professional path of academic and professional development in an international environment.



In 2024, the admissions process for second-cycle students was launched for the first time. In total, 13 first-cycle students and 6 second-cycle students qualified for the third edition of the program.

TUL Language Centre

The TUL Language Centre offered compulsory language classes for students and commercial courses in English, German, Italian, Spanish, French, Russian, and Polish.

The 6th Lektor High-Tech Conference organized by the TUL Language Centre created a space for joint dialogues between foreign language teachers, AI experts and professionals from the education industry.

In 2024, two rounds of ACERT exams were held, with a total of 984 students participating and 831 successfully passing the exam.

TUL Sports Centre

The TUL Sports Centre offers educational and instructional activities in physical culture and sports to support the well-being and development of the University's students. Students completed compulsory classes across more than twenty specializations, selecting courses that aligned with their individual interests and needs. 11 sports events were held for first-year students, in which participation was an obligatory part of the course credit.

The Centre conducted cyclical sports activities for people with special needs. Since the winter semester, sports activities have been organized for students preparing to compete in the sports section.

Interdisciplinary Doctoral School of TUL

In 2024, the TUL Interdisciplinary Doctoral School within the framework of the 8th edition of the "Implementation Doctorate" program received funding totalling PLN 1,874,000.30 for five projects. The Interdisciplinary Doctoral School educates over 35 doctoral candidates participating in the "Implementation Doctorate" program.

In 2024, to meet the expectations of doctoral students, the Scientific Council of IDS TUL held its first-ever competition for the Scientific Council IDS TUL Award, recognizing doctoral candidates with outstanding publications in leading scientific journals.

At the Interdisciplinary Doctoral School of Lodz University of Technology, the scientific and educational offerings include an innovative English-language education model accurate to the individual needs and interests of each doctoral student, alongside exceptional sessions with leading experts through the "Hot Topics in Science and Technology" program.

In 2024, IDS TUL obtained financing in the amount of PLN 2 million for the project "IMPROVE - International Mission for the Promotion of Research and Optimal Values in Education" as part of the STER program Internationalization of Doctoral Schools.

Postgraduate studies

In 2024, TUL launched 12 postgraduate programs:

Computer Graphics	Modern processes and methods in paper technology	SAP S/4 HANA - ERP class system
Technological and qualitative aspects in the sugar production process	Nuclear Power and Radiation Safety	Occupational health and safety management
Data Science	Microbiology, hygiene and quality in the food industry	Modern nutrition and management in catering
Interior Design	Clothing design	Management and Quality Management Systems

The number of postgraduate students in 2024 increased by 21.5% compared to the previous year. Among the study participants, 160 were women.

Number of postgraduate students



Cooperation with secondary and primary education

Lodz University of Technology creates conditions for young people to develop skills and competencies in science and technology. TUL welcomes students to its state-of-the-art research and teaching laboratories, where expert assistance from TUL research and teaching staff is provided.

Each September, the Centre of Mathematics and Physics hosts a "Week with Mathematics and Physics" for secondary school students from the Lodz region who are prospective TUL candidates. During this event, participants attend lectures and workshops in mathematics and physics and engage in activities at the student physics laboratory.

Matura preparation courses

As it does every year, the University took the initiative to support secondary school students in preparing for the Matura exam.

Students of schools under patronage used interactive e-learning courses specially prepared by the Centre of Mathematics and Physics via the Internet. Classes in mathematics and physics were conducted for secondary school students in the Łódź Voivodeship. This cooperation is also implemented in the form of participation in educational fairs and school science festivals. Lecturers from the Centre of Mathematics and Physics presented interactive demonstrations in the Zone of Cult Experiments during the 27th Science Picnic at the PGE National Stadium in Warsaw.

National English Language Olympiad with Technical Elements for Secondary Schools

The theme of the 5th Olympiad 2024 is: 'With Us, Design and Build Your Future with English.' The partner of the event was the Faculty of Civil Engineering, Architecture and Environmental Engineering. The 5th edition of the Olympiad was held under the honorary patronage of the Rector of Łódź University of Technology, the President of the City of Łódź, and the Voivode of the Łódź Province.

MORE with TUL



A new initiative titled MORE with TUL (Opportunities, Development, and Education with Łódź University of Technology) was launched—a recruitment program for secondary school students that includes a free math course and an examination-based competition. Winners of the competition gain the advantage of facilitated admission to Łódź University of Technology. More than 1,200 participants declared their willingness to take part in the first edition of the National Recruitment Program MORE with TUL.

Get a Taste of Studying in Łódź



As part of the 'Get a Taste of Studying in Łódź' initiative, Łódź University of Technology hosted visits from students of the 1st High School in Łowicz and Rev. Stanisław Konarski in Skierkiewice School Complex, as well as the 31st and 1st High Schools in Łódź.

High school students learned more about IFE and mobility opportunities offered at TUL, also within the ECIU network.

Educational e-materials supporting the inclusion of students coming to Poland in the Polish education system



TUL is the coordinator of the E-materials project, which supports primary school pupils in the process of integration into the Polish educational system by preparing 150 educational e-materials aimed at children with Polish language skills at levels A1 to B1 according to the Common European Framework of Reference for Languages (CEFR).



French Academy for Young Engineers (FAMI)

October 2024 marks the launch of the 8th edition of the French Academy of Young Engineers (FAMI) project, which involves students not only from secondary schools in Łódź but also from the wider region. This project is a part of the initiative to promote French studies at IFE, with many participants later choosing to pursue this field. Following a decision by the Senate of Łódź University of Technology, starting from the

2025/2026 admissions cycle FAMI participants will be eligible for admission to the Business, Society and Technology field of study—taught in English and French—based on the certificate they receive.

The first strategic business partner of the FAMI initiative at Lodz University of Technology is Veolia Energia Lodz.

Strengthening cooperation with universities and scientific institutions

Lodz Academic Partnership

On October 2 at the Lodz Philharmonic Hall, the six universities affiliated to the Lodz Academic Partnership inaugurated the academic year 2024/2025.

The inaugural lecture entitled "Why Do We Need the Fourteenth Alice? Or About the Meaning of Re-translations" was delivered by Prof. Jerzy Jarniewicz from the University of Lodz, a poet, translator, literary scholar, winner of the NIKE Literary Award 2022. The ceremony featured an artistic performance by students from the Academy of Music in Lodz.

After a five-year break, the Lodz Juwenalia Parade returned to Piotrkowska Street, marking the start of the student celebrations. The parade included students, university rectors, and deans from Lodz institutions affiliated with the Lodz Academic Partnership.



General Assembly of the Academy of Engineering in Poland

Lodz University of Technology hosted the 44th General Assembly of the Academy of Engineering in Poland, during which an institutional partnership agreement was signed with the Academy of Engineering in Poland on cooperation in education and research to stimulate the development of engineering, technology and environmental protection. Under this agreement, TUL was granted the status of supporting member of the Academy of Engineering in Poland. On the eve of the event, the 3rd Scientific Symposium took place, gathering distinguished engineers and scientists.

Convention of Deans of Faculties of Chemistry

More than a hundred deans and vice-deans from chemical faculties across Polish universities gathered at Lodz University of Technology and University of Lodz. The meeting focused on management, finance, cooperation with the socio-economic environment and the education of students in faculties that are among the most renowned in Poland.

QUALITY OF EDUCATION

Accreditations

In 2024, the Polish Accreditation Committee granted a positive assessment for a period of 6 years to the following fields:

Power Engineering – 1st cycle	Faculty of Mechanical Engineering
Transportation – 1st cycle	Faculty of Mechanical Engineering
Architecture – 1st and 2nd cycle	Faculty of Civil Engineering, Architecture and Environmental Engineering
Biomedical Engineering – 1st and 2nd cycle	Faculty of Electrical, Electronic, Computer and Control Engineering

Mechatronics – 1st and 2nd cycle	Faculty of Electrical, Electronic, Computer and Control Engineering
Chemistry in Forensics – 2nd cycle	Faculty of Chemistry
Design – 1st and 2nd cycle	Faculty of Material Technologies and Textile Design

In 2024 TUL earned three international program accreditations:

- EUR-ACE Bachelor Label for the field of Civil Engineering,
- EUR-ACE Master Label for the field of Civil Engineering,
- EUR-ACE Bachelor Label for the field of Textiles and Fashion Industry.

21 CURRENT INTERNATIONAL ACCREDITATIONS	2 INSTITUTIONAL ACCREDITATIONS	19 PROGRAM ACCREDITATIONS
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The Polish Accreditation Committee awarded the Education Excellence Certificates to two fields of study at TUL:

- Chemical Technology, first- and second-cycle studies at the Faculty of Chemistry in the category "Excellent Field of Study – Excellence in Education",
- Power Engineering, first-cycle studies at the Faculty of Mechanical Engineering in the category "Always for the Student – Excellence in Supporting Student Development".



Didactic trainings

In 2024, the TUL Centre for Teaching and Learning conducted 62 training sessions for university educators, focusing on skill development in e-learning, communication, teaching methods, the use of artificial intelligence in education, as well as topics related to the circular economy, sustainability, and innovative technologies in both education and industry. 615 people participated in the trainings.

Educational projects

Under the European Funds for Social Development 2021–2027 (FERS) Program, projects commencing from 2024 include:

- "Education for needs of key industries at the Lodz University of Technology" – the project focuses on the modification of existing education programs in the fields of Energy, Transport, Electronic and Telecommunication Engineering and Logistics.
- "Raising the qualifications and competences of teaching staff at the Lodz University of Technology" – the aim of the project is to adapt education methods to contemporary challenges, such as the digital revolution, the development of artificial intelligence, social isolation and the need for pro-ecological engineering activities. The program includes training in methods such as Problem-Based Learning, Project-Based Learning, Challenge-Based Learning and case-teaching.

- "Education for the needs of the economy at the Lodz University of Technology" – the project includes modifications of existing education programs in the fields of Business, Society and Technology, Mechanics and Machine Construction, Electrical Engineering, Design, Food and Nutrition Manager, Architecture, Paper and Printing and the creation of a new education program in the field of study Digital Management.
- "Universities of the Future", which aims to implement and test the innovative Model of Personalized Education (MES), which allows students to implement individual educational paths based on their own projects.

TUL in international rankings

TUL is steadily enhancing its international reputation by actively engaging in numerous prestigious global rankings.



THE World University Rankings

In the global rankings, Lodz University of Technology placed within the 1201–1500 range, among 40 Polish universities, improved by 4 positions, securing 11th place.

THE Impact Rankings

For the fourth time, Lodz University of Technology was classified in the THE Impact ranking, which focuses on the activities of the university in terms of the implementation of the 17 Sustainable Development Goals. TUL was classified in Goal 5: Gender equality for the first time, ranked in the 301–400 range. TUL once again received the highest rating for activities aimed at achieving Goal 8: Decent work and economic growth, entering the world TOP 200 and taking the first place in Poland.

QS World University Ranking

TUL maintained its position from a year ago and was classified in the range of 1001–1200 (despite the increase in the number of universities participating in the ranking). The ranking includes more than 1,500 universities from 105 countries.

QS World University Rankings: Europe

Lodz University of Technology achieved a significant result in the category of Outbound Exchange Students and was once again ranked 1st in Poland and 89th in Europe.

Lodz University of Technology was again distinguished and classified in four **QS by Subject**.

QS World University Rankings: Sustainability

Lodz University of Technology was ranked 396th in Europe and placed within the 1041–1060 range globally.

US News Best Global Universities Rankings

The list includes 2,250 of the best universities in the world, including 47 Polish universities. TUL was ranked 1,522nd globally, 514th in Europe, and 24th in Poland.

Web of Universities (Webometrics)

In the global edition of the Webometrics 2024 ranking (July), Lodz University of Technology ranked 42nd in Poland, 832nd in Europe and 2342nd in the world.

SCImago Institutions Rankings (SIR)

In the "universities" category TUL ranked 1186th in the world, up 52 positions. In the Region Ranking – Eastern Europe table, TUL ranked 46th place among 451 universities from Eastern Europe (up 12 positions). In the national ranking TUL achieved 19th place (up 2 positions).

University Ranking by Academic Performance (URAP)

TUL ranked 1051st in the world (out of 3,000 universities), while among Polish universities TUL was promoted by 5 places, occupying the 13th position in Poland.

CWUR - Center for World University Rankings

A total of 20,966 institutions were evaluated and on this basis a list of 2,000 best universities and research centres in the world was developed. Lodz University of Technology was ranked 1397th.

CWTS Leiden Ranking

TUL was ranked 735th in the "scientific impact" category, 800th in the "gender" category, and 955th in the "collaboration" and "open access" categories.

European Ranking of Engineering Studies EngiRank

Lodz University of Technology was ranked 96th in Europe and 6th in Poland.

ENTERING THE LABOUR MARKET

Activities of the Careers Office in 2024:

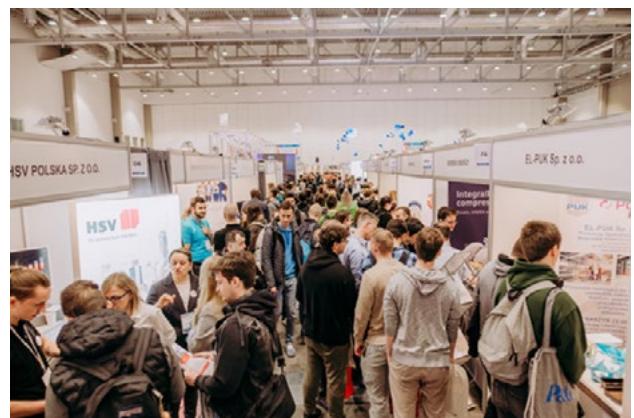
3,989 apprenticeships, job and internship offers; supporting 11 recruitment processes	36 trainings and workshops for 695 people
cooperation with more than 300 employers	85 hours of business coaching, 76 hours of ICC coaching for students and 398 professional aptitude tests
providing support to 317 people through career counselling and entrepreneurship, career coaching	conducted individual consultations in the field of professional development for 42 employees
94 reports on the professional path of TUL graduates	26 trainings, individual coaching/advisory consultations for 56 employees
psychological support for 65 students	11 trainings in the field of preparation for periodic evaluation of employees for the entire management team

TUL Career Office was the organizer or co-organizer of many events, including:

19th edition of the Academic Job Fair:

- approx. 2 thousand job offers, internships and apprenticeships,
- 11 trainings and workshops attended by approx. 253 participants,
- 14,000 visitors,
- more than 130 exhibitors,

- help from more than 150 volunteers,
- 20 speeches on special stages, where experts and representatives of exhibitors could share their knowledge in the form of short, dynamic lectures.



Santander Universitades Program – Business in Practice

16,371 people applied for the 7th edition of the program, but due to the limit, 6,188 people took part. The topics of training in 2024 were related to artificial intelligence (AI).

Competition for the "Best Employer of the Lodz Voivodeship according to Students of Lodz University of Technology"

47 companies and institutions applied for the 5th edition of the competition. The winner of the competition was B/S/H, which won both the title of Best Employer of the Lodz region according to Lodz University of Technology students, and in the category for best internship and apprenticeship program. In 2024, the award in the category "Best Employer of the Lodz ICT Cluster according to Lodz University of Technology students" was awarded for the first time. The winner in this category was Comerzbank.



Mentoring program "Strength of the community"

The program was created as part of the celebration of the 80th anniversary of the University. The aim of the program is to cooperate on the basis of mentor-mentee, in which outstanding graduates of Lodz University of Technology will share their experience and knowledge with students. The profiles of mentors are presented on the Lodz University of Technology website <https://mentoring.p.lodz.pl/sylwetki-mentorow>. In 2024, preparations undertaken to launch the program. The main assumptions of the program, regulations, application forms and the program website were created.

TUL FOR LOCAL COMMUNITY



1 287 children aged 7-17 in the ŁUD program

41 exhibitions in TUL art galleries

668 students of the University of the Third Age at TUL

NON-PUBLIC NURSERY OF TUL

Throughout 2024, TUL's non-public nursery—dedicated to the youngest children of employees, doctoral students, and students—enjoyed great popularity. The nursery currently serves 20 children, who participate daily in creative music, art, sports, and sensory activities organized by dedicated caregivers. Highlights of the year included animal interaction sessions, a visit from a firefighter, and theatrical performances staged by the nursery staff, giving the children a true taste of the theatre experience.



NON-PUBLIC KINDERGARTEN OF TUL

In September 2024, TUL's non-public kindergarten celebrated its second anniversary. Since its launch, the kindergarten has grown significantly, increasing enrolment from 16 to 67 children and expanding to four groups.

The kindergarten actively participates in educational projects and charity campaigns, such as collecting tea and creating Christmas cards for seniors at the Pogodna Jesień Social Welfare Home, gathering food and toys for animals in shelters, and donating art supplies and stuffed toys to children in hospitals across Łódź.



The children also took part in a first aid course designed for the youngest age group and earned a distinction in a competition organized by the Colourful World Foundation – for their 'Kontaktówka' greeting card made for children with disabilities, including those who are visually impaired. They also received awards in various sports competitions held across the Lodz Voivodeship.

Preschoolers with interest took part in classes organized at the faculties of Lodz University of Technology. The university employees also visited the kindergarten and conducted classes for children "Marketing behind the scenes", experiments, and classes with a robot. The kindergarten cooperates with the "Ferment" library and the "Baśniowa Kawiarenka" mini theatre.

CHILDREN 'S UNIVERSITY OF TUL

ŁUD in 2024:

- 92 children aged 7 (ŁUD_7)
- 92 parents of seven-year-olds
- 1,120 children aged 8–12 (ŁUD)
- 75 participants aged 13–17 (ŁUD_A)
- 10 so-called "big" lectures
- 383 stationary workshops for children aged 8–12
- 24 on-line workshops
- 42 workshops for children aged 7
- 9 workshops for children aged 7 with their parents
- 24 workshops for young people aged 13–17



In 2024, volunteers from TUL ŁUD took part in the CUGreen project together with volunteers from the University for Children from Bucharest and Innsbruck, which was the coordinator. The aim of the project was to get to know the work of volunteering, develop guidelines for children's universities from three different countries, how to conduct classes paying attention to ecology, use reusable materials, etc.

TUL ŁUD for the second time was the winner of the competition addressed to regional partners of the Young Explorers Club (KMO) program, which is coordinated by the Copernicus Science Centre and financed by the Deloitte Foundation. As part of the "Together for a better future" project, activities will be carried out to support the integration of Polish and Ukrainian children.

PUBLIC SECONDARY SCHOOL OF TUL

TUL Public Secondary School in 2024:

- 459 students,
- 98 graduates,
- average grade at school: grades I, II and III: 5.09; grade IV (in 4 years): 5.21.

Most of the graduates of TUL Public Secondary School choose technical universities, mainly Lodz University of Technology (about 40% of graduates and this is a trend that has been ongoing for several years). In the case of choosing



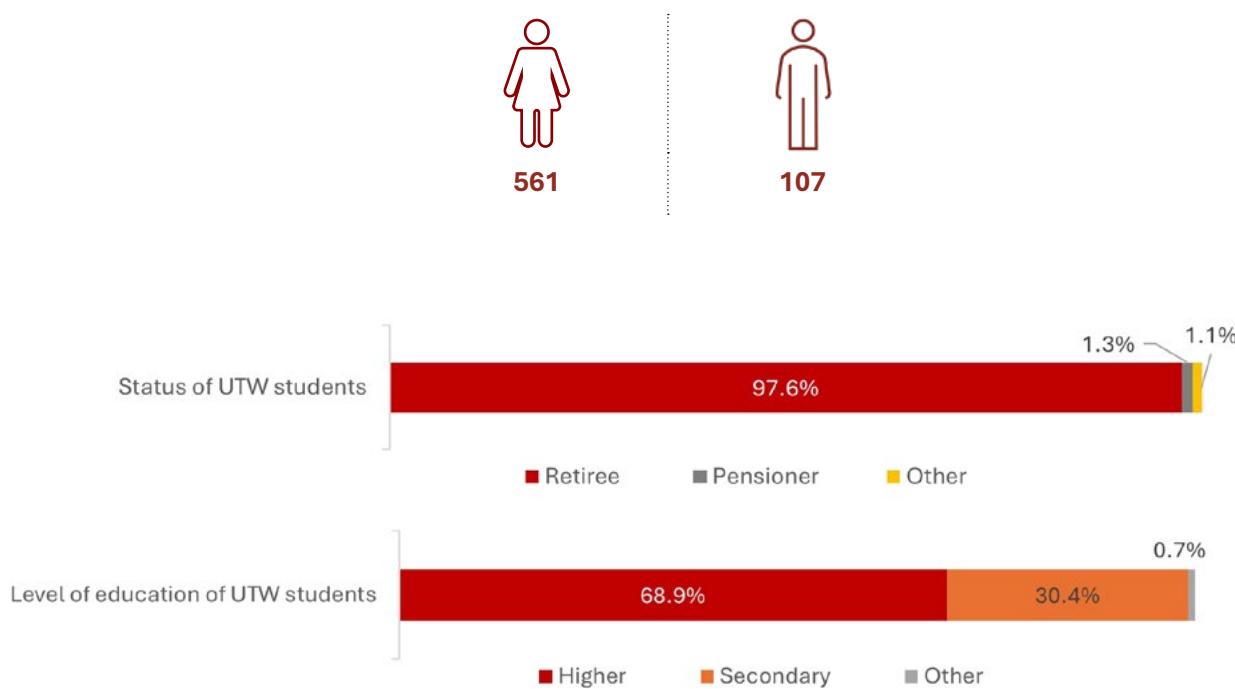
other technical universities, the uniqueness of the field of study (navigation, aviation, transport) was mainly decisive. There is a growing interest among graduates to study at medical universities.

School successes:

- 1st place in the Łódź Voivodeship in the Ranking of General Secondary Schools 2024 of the Perspektywy Education Foundation;
- 1st place in the Łódź and Świętokrzyskie regions for the primary school-leaving examination in compulsory subjects (mathematics, English);
- 1st place in the region for the extended baccalaureate in mathematics (96.4%), physics (77.9%), biology (74.3%) and chemistry (71.2%);
- participation (with success) in many central finals of subject Olympiads and nationwide competitions;
- numerous sporting successes, participating in national and international sports competitions, including the Winter Polish Junior Championships up to 16 years of age in swimming.

UNIVERSITY OF THE THIRD AGE TUL

668 students including new students - 102



UTW TUL has implemented the following forms of activities:

General lectures: 82 hours

Lecture topics include: achievements in science and technology, preventive health care, regional and national history, as well as art history, psychology, sociology, economics, nature and travel, music, theatre and film.

Additional classes: 1066 hours

In 2024, UTW TUL offered 16 additional classes, including one new activity - Accessibility - IT consultations.

1973 seats used for additional classes.

UTW TUL is a long-term partner in the Łódź Senioralia, the aim of which is to encourage people over 60

to engage in an active lifestyle, broaden knowledge and develop passion.

UTW TUL also cooperates with the National Federation of UTW, exchanging experience and good practices, legal support, and providing free lectures for UTW TUL students.

As part of cooperation with the UTW TUL, the TUL Sports Centre carried out approx. 170 hours of sports activities for over 400 seniors. These classes were conducted by three TUL Sports Centre trainers and were highly praised by the participants, who appreciated the professional workshop as well as the involvement of trainers conducting classes in general gymnastics, pilates with elements of yoga and gymnastics in water.

Selected events in 2024

- Three exhibitions of artistic achievements of students from the art section of UTW TUL were presented: "Man and his Trace", "Homeland Landscape in Pastels", "Between Heaven and Earth".
- Visit of the President of the City of Lodz, Mrs. H. Zdanowska, who talked about the role of local government and changes in Lodz.
- In cooperation with the City of Lodz and the TIGER TEAM Dance School, a series of equality dances was organized, attended by over 60 students of the UTW TUL.

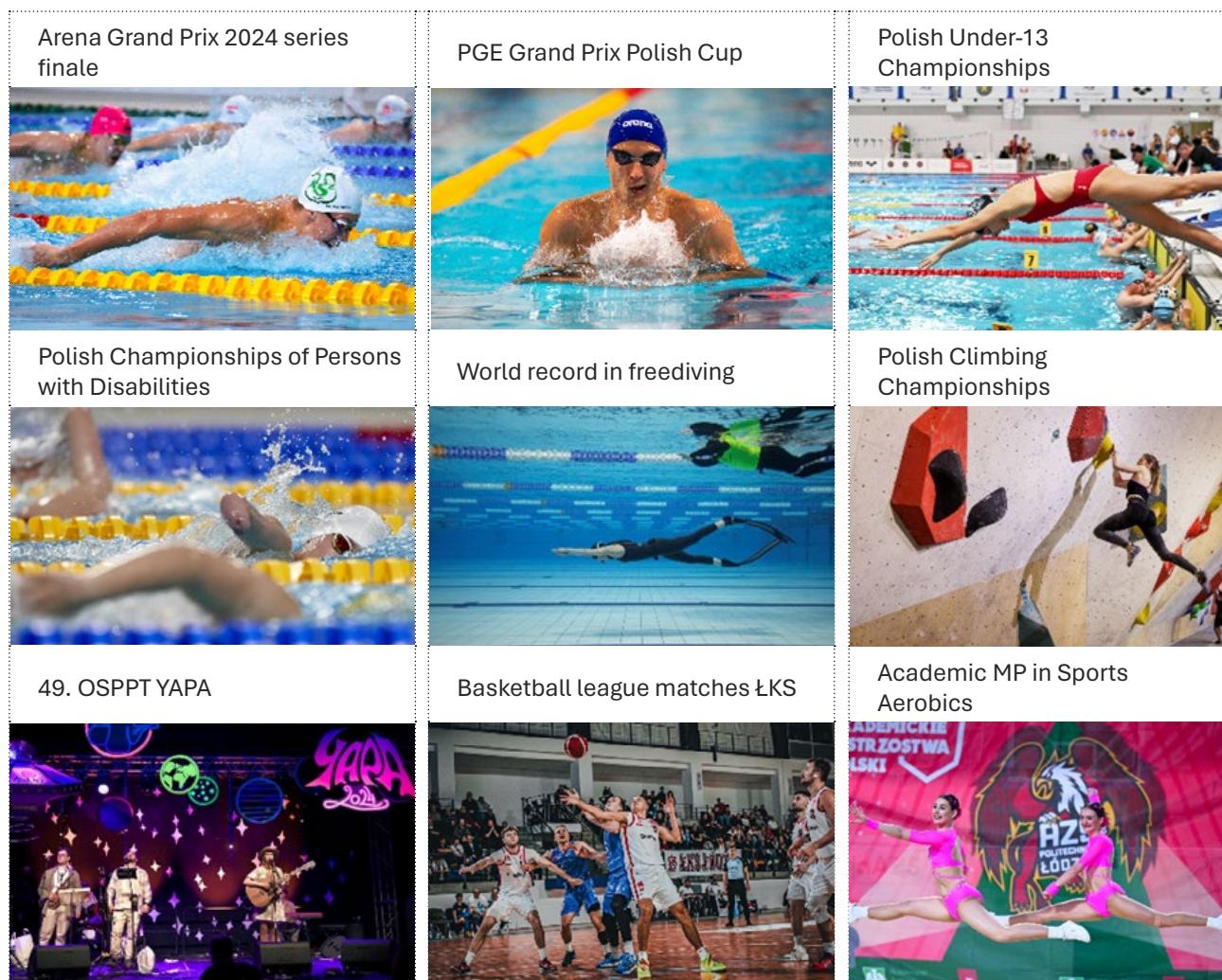
Agnieszka Stołecka, MA, the director of UTW TUL, was appointed by order of the Lodz Voivode to a team of experts who will advise on matters of senior policy and challenges related to the aging of the population.



TUL SPORTS AND EDUCATION CENTRE “SPORTS BAY”

“Sports Bay” received a nomination for the Sport Biznes Polska award in the Sports Facility of the Year 2024 category.

International and national events:



CULTURE AND ART

As part of the Thursdays Culture Forum series, 9 meetings were held. The invited guests included Jakub Garbacz, Maciej Klimarczyk, and Rafał Songan. In October and November, on the occasion of the celebration of the 80th anniversary of the founding of TUL, two special meetings were held devoted to the patron of the jubilee of Prof. Alicja Dorabialska, during which the professor was remembered by her pupils.

Music at TUL continued, with 13 concerts held in 2024. Highlights included performances by Grażyna and Kiejstut Bacewicz of the Vocal Department of the Faculty of Performing Arts in Łódź, as well as a concert of Polish songs and an evening of carols.

The Academic Choir of TUL won a Gold Diploma at the International Festival and Choir Competition "Musica Eterna a Roma" in Rome and a Gold Diploma at the 1st Warcki Choir Festival of Marcin Wartecki in Warta. The choir also won the Mixed Choirs category. The choir again performed the musical "The Awakening" in EC1 in Łódź and two concerts together with the Academic Orchestra of TUL, in the Łódź Philharmonic and in open air.

The Academic Orchestra held 56 rehearsals and performed 10 concerts, including a spring and autumn-winter concert or a charity performance for the charges of the Hospice for Adults in Łódź, a concert on the occasion of the 65th anniversary of Student Radio Żak. The band has also prepared performances of new works, including a Medley from Harry Potter, Shallow by Lady Gaga and Bradley Cooper, Pink Panther by H. Mancini, and Mamma Mia by Abba.

Student Radio ŻAK of Łódź University of Technology is the oldest licensed academic radio station in Poland broadcasting 24 hours a day at 88.8 MHz. In 2024, the radio celebrated its 65th birthday.

TUL Art galleries

- Biblio-Art Gallery
- Politechnika Gallery
- Krótko i Węzlowato Gallery
- Pod Napięciem Gallery
- Jutro Gallery

Art galleries operating at TUL have prepared 41 exhibitions (42 in 2023) for the academic and local community. Each exhibition was an opportunity to admire a variety of artistic expressions, from painting to sculpture and photography.

Galleries play an important role in promoting artistic passions in the academic community of Łódź. The openings and meetings brought together a large number of artists and art lovers.

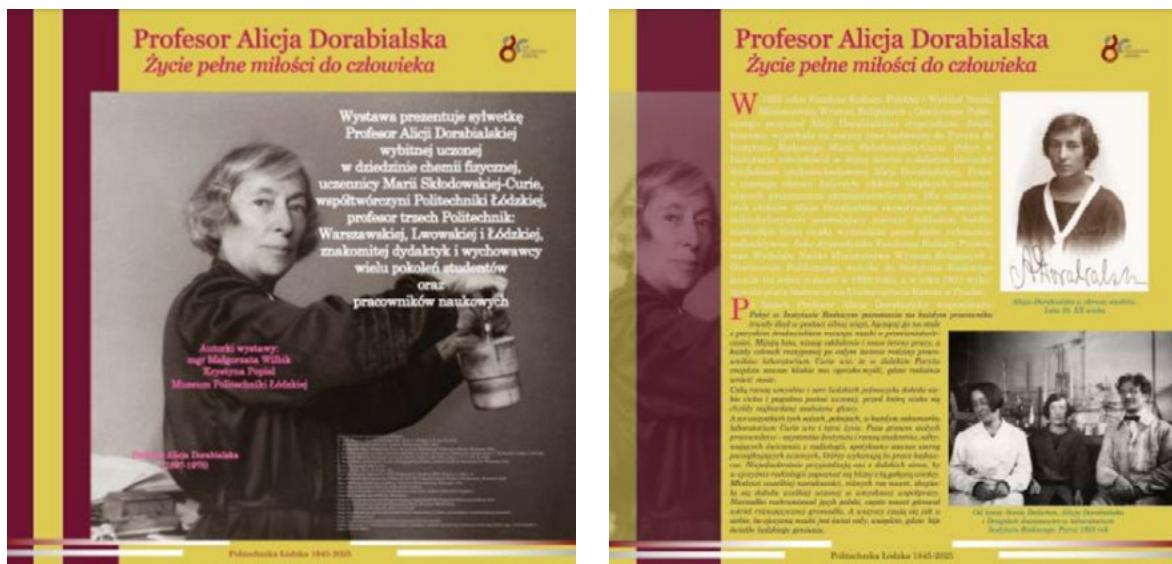


The Museum of Łódź University of Technology

The main task of the Museum is to collect, share and disseminate collections related to the history, tradition and activities of Łódź University of Technology in order to preserve the tangible and intangible academic heritage.

In May 2024, for the ceremonies related to the 79th anniversary of Łódź University of Technology, a temporary exhibition was prepared titled "Professor Jadwiga Jakubowska. First Doctor Honoris Causa of Łódź University of Technology".

In October 2024, in connection with the commencement of the 80th anniversary of the Łódź University of Technology, the Museum prepared the exhibition "Professor Alicja Dorabialska. A life full of love for man". The narrative canvas of the exhibition included fragments of memories of students and collaborators of Professor Dorabialska from the Museum's collection. The exhibition is presented in the building of the Faculty of Chemistry (Alchemium).



SCIENCE



7 professor nominations

17 implemented Horizon Europe projects

116 doctoral degrees conferred

205 publications of doctoral students of IDS TUL

27 conferred habilitation degrees

SCIENTIFIC DEVELOPMENT OF STAFF

Degrees and academic titles

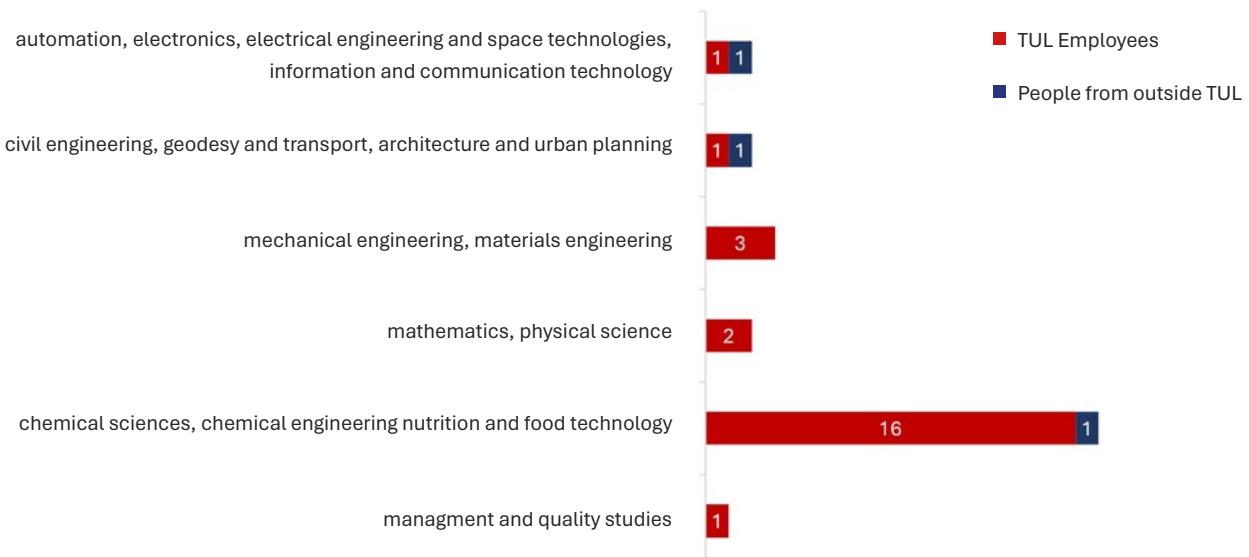
In 2024, 7 TUL academic teachers received the professor's academic title, including 2 women:

	prof. Joanna Pietrasik
	Faculty of Chemistry
	prof. Radosław Podsiadły
	Faculty of Chemistry
	prof. Elżbieta Sobiecka
	Faculty of Biotechnology and Food Sciences
	prof. Bartosz Hunger
	Faculty of Civil Engineering, Architecture and Environmental Engineering
	prof. Adam Wojciechowski
	Faculty of Technical Physics, Information Technology and Applied Mathematics
	prof. Dariusz Heim
	Faculty of Process and Environmental Engineering
	prof. Paweł Wawrzyniak
	Faculty of Process and Environmental Engineering

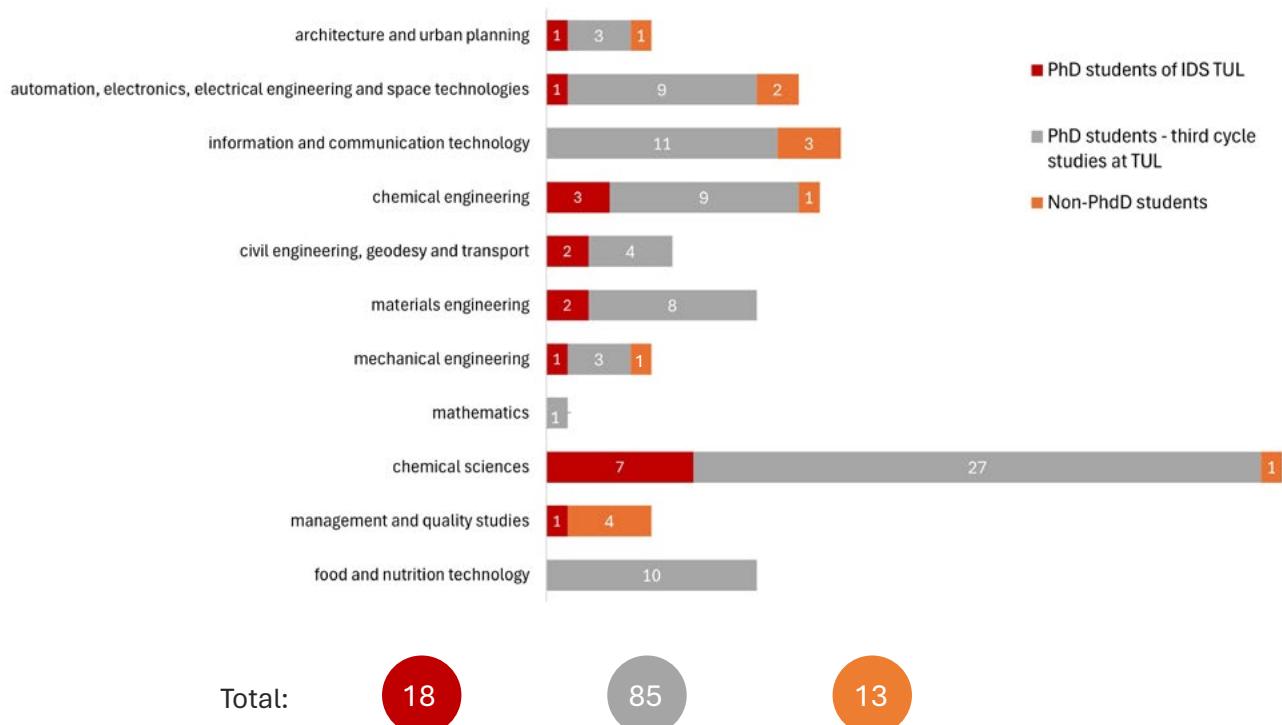
Twenty-six employees of the University were awarded habilitation degrees, including two scientists who had their degrees conferred by another university.

In 2024, Lodz University of Technology conferred 116 doctoral degrees (147 in 2023) and 27 habilitation degrees (6 in 2023).

Habiliations conferred by TUL in 2024



Doctoral degrees conferred by TUL in 2024



Awards and distinctions for Lodz University of Technology researchers in 2024



Two researchers from Lodz University of Technology were awarded the Award for outstanding achievements contributing to the development of science for young scientists working in the Lodz Voivodeship.

In the field of technical sciences, dr inż. Michał Biniczarski from the Institute of General and Ecological Chemistry at the Faculty of Chemistry, and in the field of exact sciences dr inż. Joanna Grzelczyk from the Institute of Food Technology and Analysis at the Faculty of Biotechnology and Food Sciences.

The ministerial scholarship for outstanding young scientists was awarded to Dr. Paweł Łatosiński from the Institute of Automatic Control at the Faculty of Electrical, Electronic, Computer and Control Engineering and Dr. Konrad Kulikowski from the Institute of Management at the Faculty of Organization and Management.



Prof. Tomasz Kubiak from the Faculty of Mechanical Engineering became the chairman of the Advisory Group for Research Infrastructure. It consists of experts representing various scientific disciplines appointed by the Ministry of Science and Higher Education.



Associate Professor Jacek Szer, Ph. D., D. Sc. from the Faculty of Civil Engineering, Architecture and Environmental Engineering was appointed by the Minister of Development and Technology as a member of the advisory group in the ministerial team for technical and construction regulations for buildings.

Lodz University of Technology Own Scholarship Fund

The Own Scholarship Fund is aimed at active and academically successful individuals who are developing their career path at TUL. The award is given on a competitive basis to those who meet the formal criteria.

As a result of the 17th edition of the competition for academic scholarships from the TUL own Scholarship Fund, 27 scholarships were awarded:

professor scholarships	habilitation scholarships	PhD scholarships	master scholarships	engineering scholarships
6	3	10	6	2

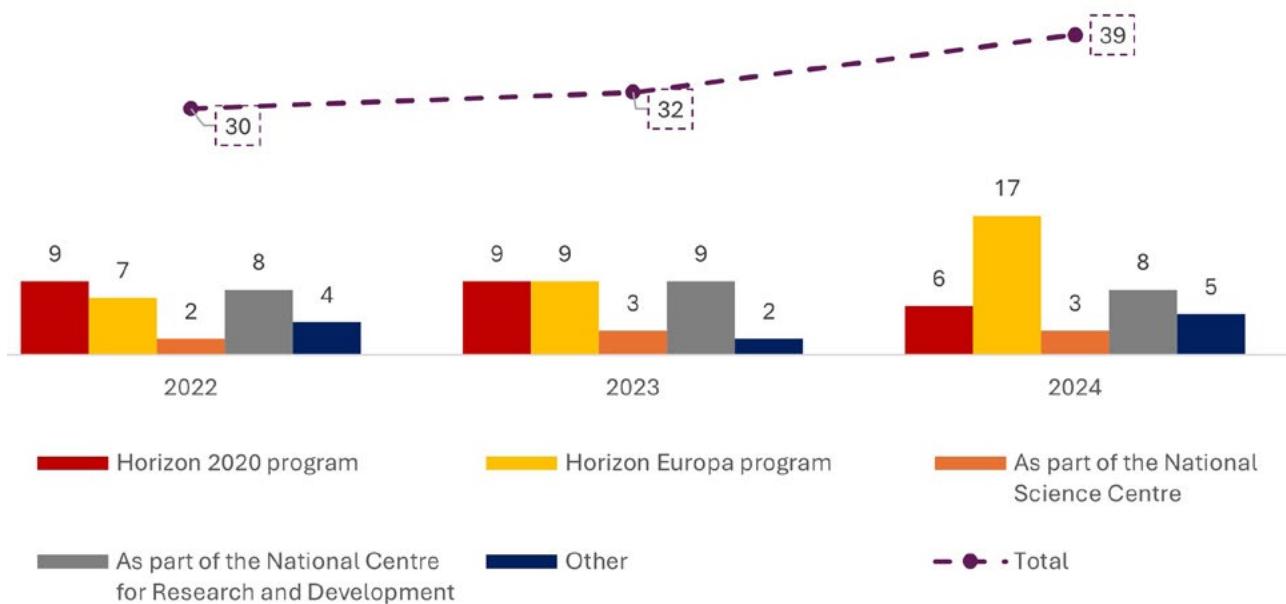
RESEARCH PROJECTS

Implementation of research projects

In total, in 2024, TUL employees implemented 196 research projects. 41% of ongoing research projects at the University were coordinated by women.

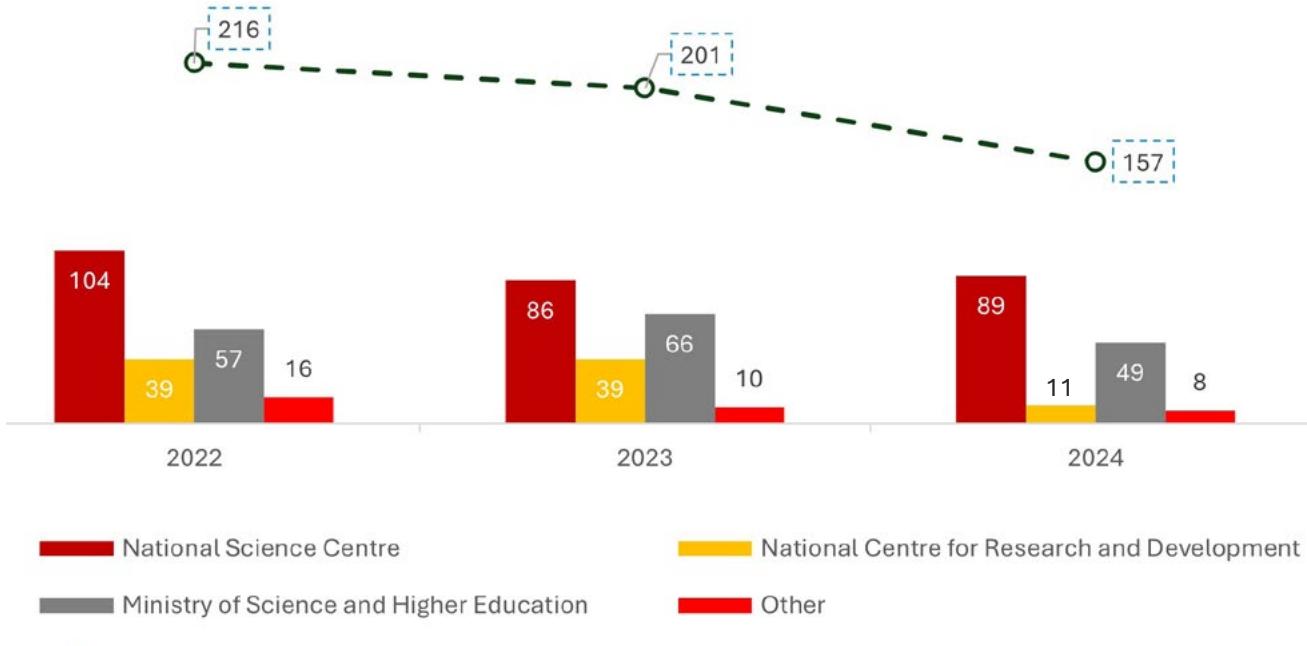
The University has successfully applied for research projects as part of international programs. In 2024, TUL secured 7 projects under the Horizon Europe program, ranking among the top technical universities participating in the new framework program of the European Union.

International research projects implemented in 2022-2024



Value of costs incurred for the implementation of international projects under the co-financing	2022	5,229.0 thousand
	2023	7,862.8 thousand
	2024	12,315.8 thousand

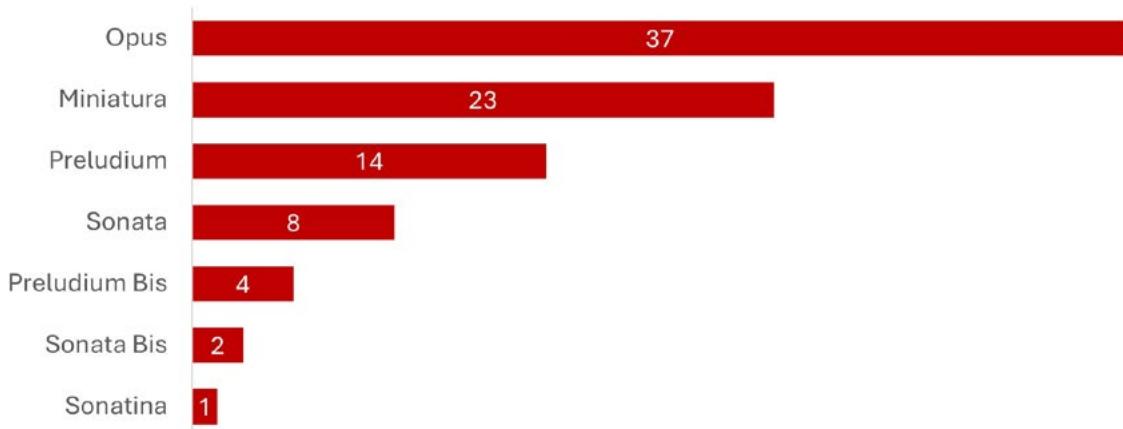
National research projects implemented in 2022-2024



Value of costs incurred for national projects under the co-financing	2022	43,895.2 thousand
	2023	46,603.0 thousand
	2024	22,680.2 thousand

National projects funded by the National Science Centre accounted for 45% of the total number of projects implemented at TUL. The value of costs incurred for the implementation of national projects under co-financing from the National Science Centre in 2024 amounted to PLN 11,041.6 thousand.

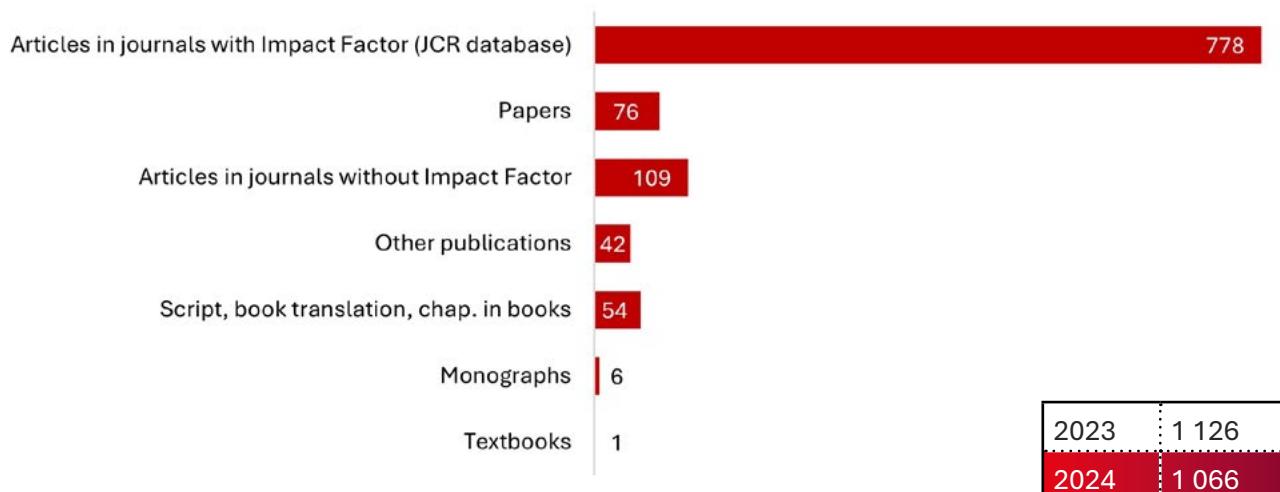
Number of national projects funded by NCN in 2024

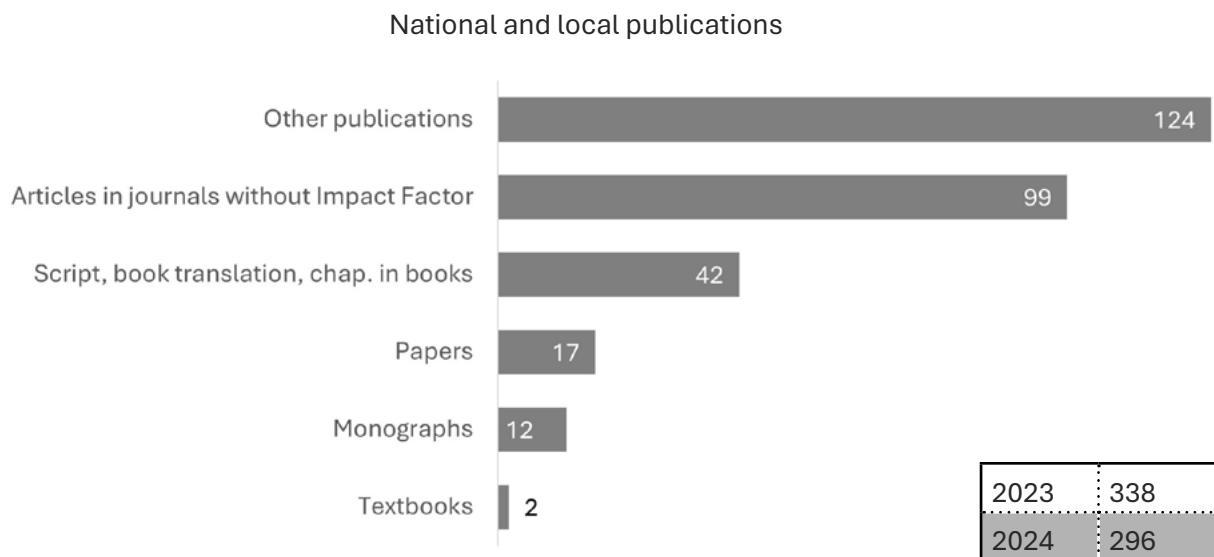


PUBLICATIONS

In 2024, researchers at Lodz University of Technology published a total of 1,362 publications. International publications accounted for 78.3% of total TUL publications.

International publications

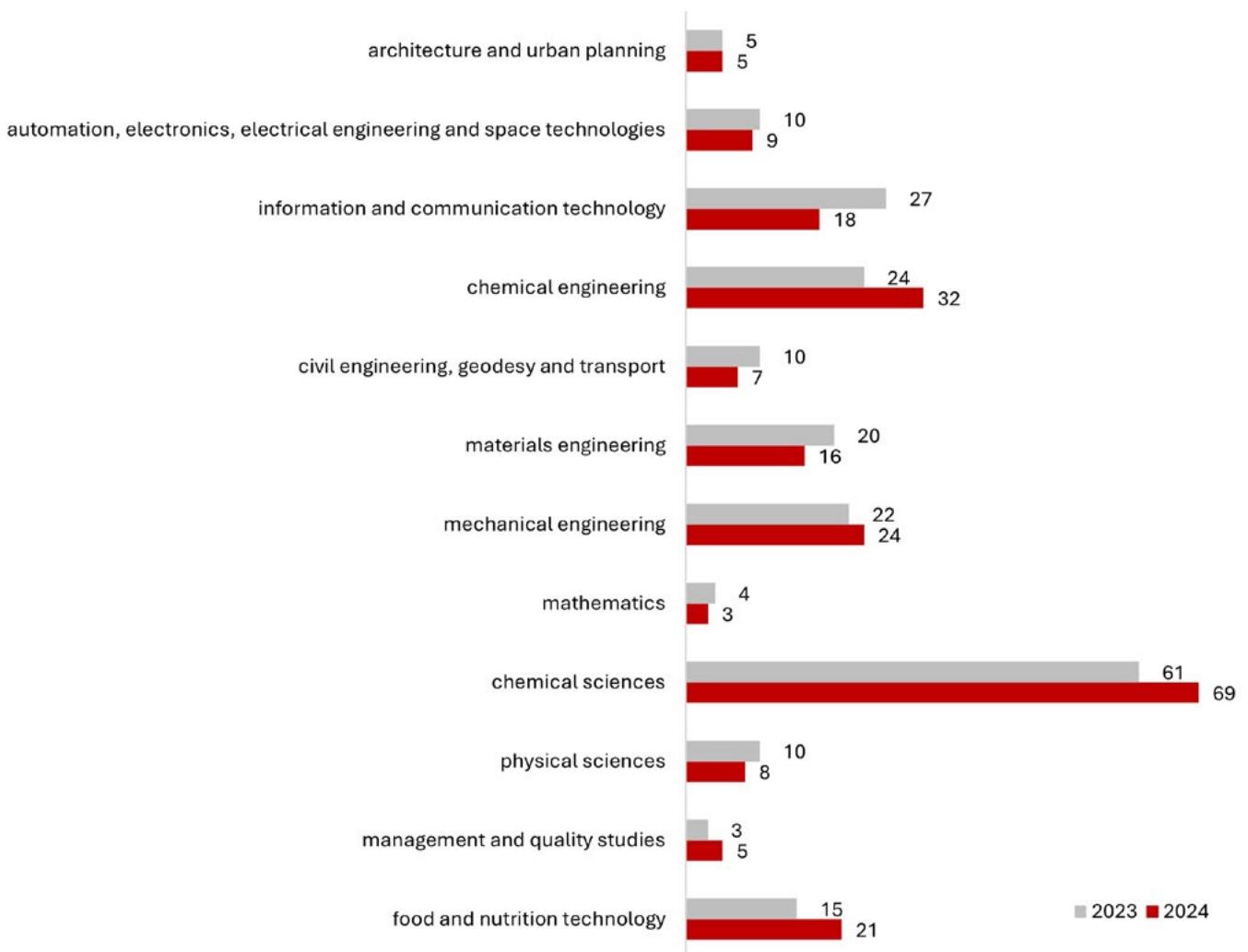




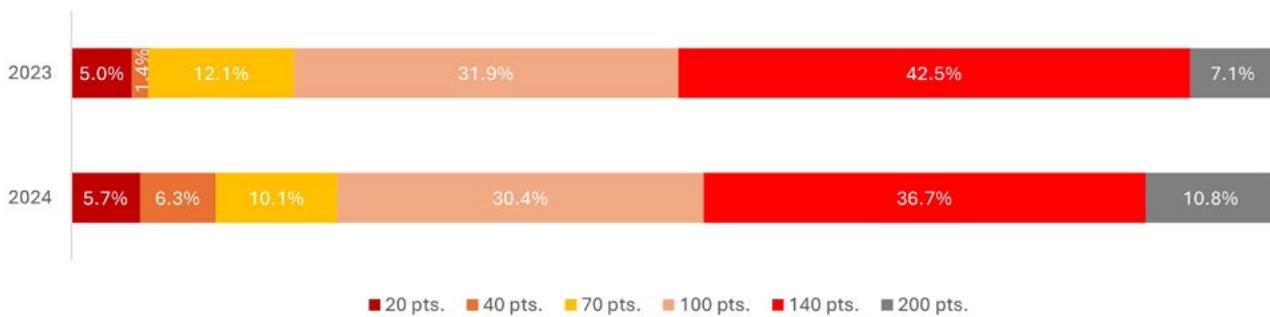
Publication activity of doctoral students of IDS TUL

PhD students from the Interdisciplinary Doctoral School of TUL were the authors and co-authors of 205 publications published in 2024 (203 in 2023).

Publications of PhD students of IDS at TUL in 2024 by discipline



Structure of publications of doctoral students of IDS TUL according to ministerial points



TUL Publishing House

In 2024, a total of 34 publications were published:

- 25 printed publications with a total circulation of 2,450 copies,
- 9 publications in electronic version with a total volume of 67 sheets, which were placed in the TUL Repository.

The library collection of Lodz University of Technology

Providing access to the print collections of the entire library system of TUL:

- books in vol.: 257,984,
- other non-electronic collections: 230 874,
- journals in vol.: 129,646,

Providing access to electronic collections:

- electronic sources (databases and services): 83,
- titles of full-text books (Polish and foreign): 586,163,
- titles of journals and other publications with full access: 59,849.

DEVELOPMENT OF RESEARCH POTENTIAL

Lodz University of Technology undertakes and implements activities supporting the scientific potential of employees, doctoral students and TUL students. The implemented programs at TUL have an impact on improving the quality of scientific research, striving to increase the recognition of Lodz University of Technology as a research university in the international arena.

FU²N - Young Researchers' Skills Improvement Fund

The competition for internal grants under the FU²N (Young Researchers' Skills Improvement Fund) program continued.

As part of the third edition of the competition, 42 winners were selected. 24 doctoral students and 18 young scientists who received funding for internal grants from TUL. The total value of co-financing in 2024 amounted to PLN 720 thousand.

FACE - Fund for Academic Conference Excellence

The FACE (Fund for Academic Conference Excellence) program continued, which aims to strengthen and enlarge the academic achievements of TUL employees by subsidizing their participation in prestigious international scientific conferences. A total of 10 applications were qualified for co-financing in 2024, and the amount of co-financing granted amounted to PLN 12.2 thousand.

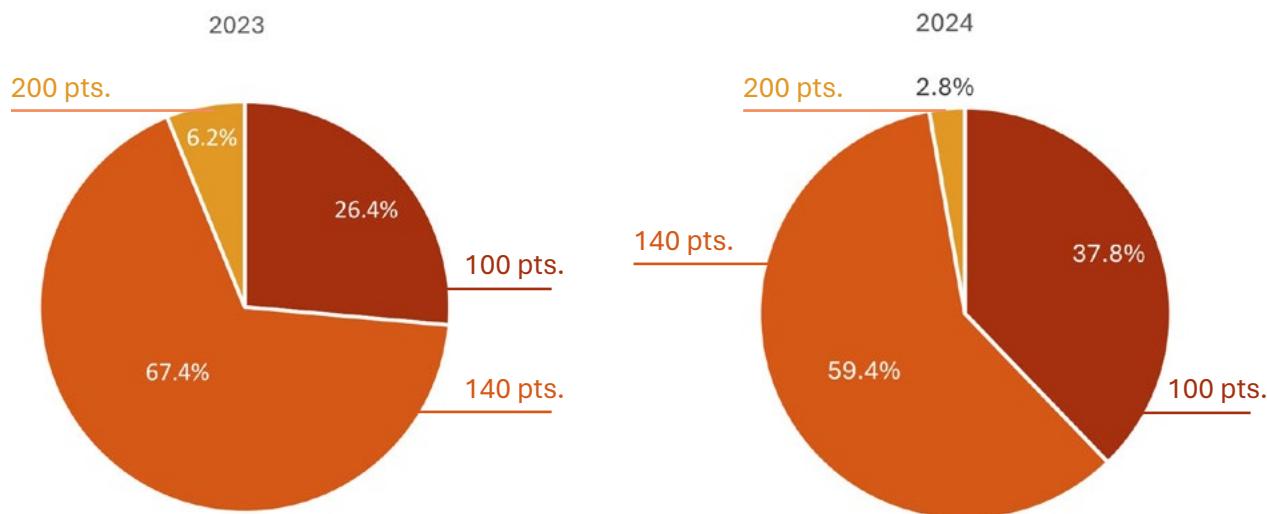
Joint MUL and TUL award for publications

The University strengthened its cooperation with the Medical University of Lodz (MUL) by organizing the 3 editions of the competition for the prize of the Rector of Lodz University of Technology and the Rector of the Medical University of Lodz for the best scientific publication published jointly in 2023.

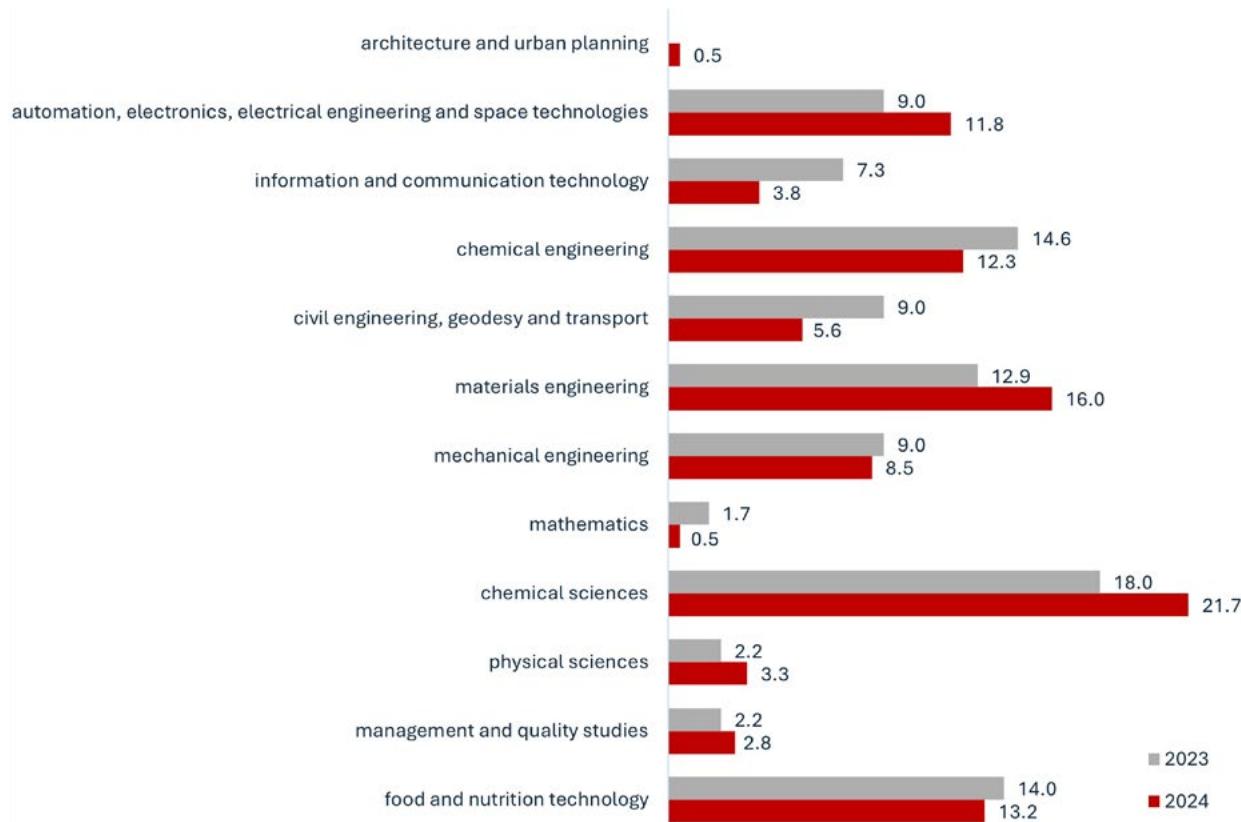
Funding of Open Access publications

Funding for Open Access publications to support the publication activities of employees, doctoral students and students of the PLA continued. In 2024, the University co-financed 212 (178 in 2023) publications for a total amount of PLN 2,127.6 thousand.

Structure of co-financed Open Access publications in the years 2023-2024



Share of funded publications per discipline (%)



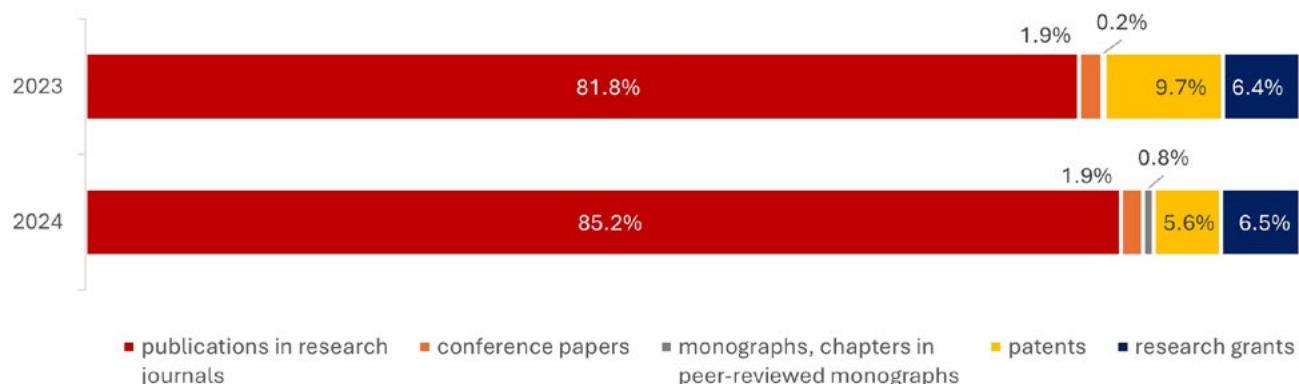
Awards to support scientific excellence

Lodz University of Technology participates in the "Excellence Initiative – Research University" program (IDUB), under which the University aims to strengthen the activity of academic staff in the national and international scientific community.

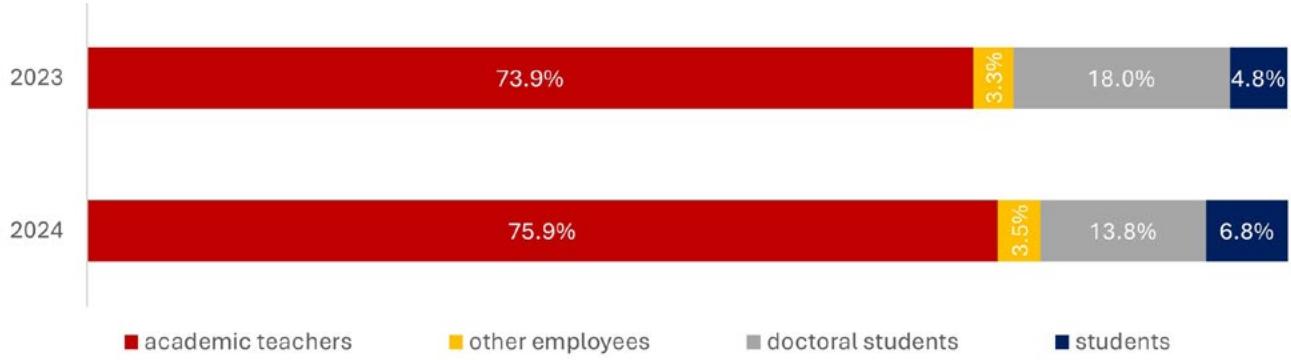
In 2024, awards continued to be made within the framework of funds allocated to support scientific excellence of employees, doctoral candidates and students of TUL. The value of prizes paid under the IDUB program in 2020–2024 totalled PLN 20,524 thousand, including PLN 3,924 thousand in 2024.

In 2024, 853 people were awarded (in 2023, 815 people), of whom 42.8% were women.

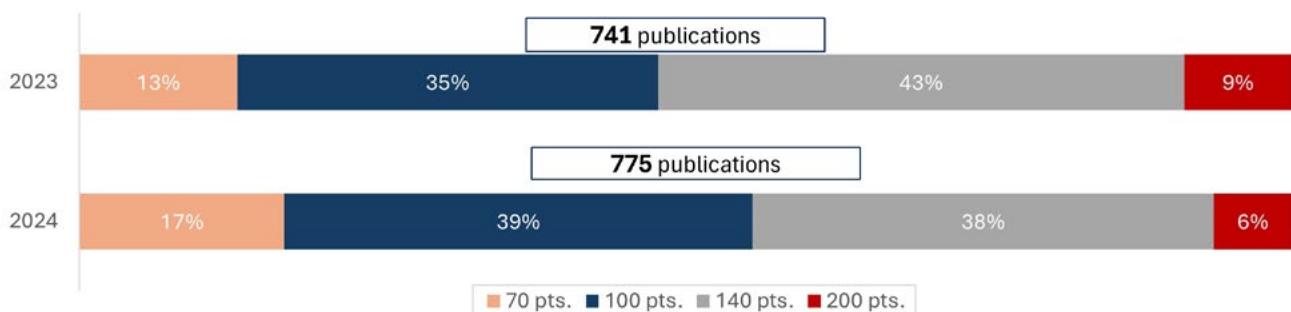
Structure of awarded prizes according to scientific achievements



Awarded persons by author status



Publications awarded in the IDUB program according to ministerial points



Research Week

The second edition of TUL Research Week was held, with numerous lectures, discussions and meetings inspiring the development of scientific careers. The guests of the event included Prof. Andrzej Dragan, physicist and populariser of science from the University of Warsaw and Piotr Sankowski, an outstanding computer scientist and winner of prestigious ERC grants.



EIT Health

Balazs Furjes, Director of EIT Health InnoStars and Joanna Broy, EIT Health InnoStars Ecosystem Lead, visited Lodz University of Technology. During the visit, topics related to building a common ecosystem for innovation in the field of health were discussed and the role of EIT Health as a tool for developing networking was emphasized.



Coalition for Advancing Research Assessment (CoARA)

In the context of Lodz University of Technology joining the Coalition for Advancing Research Assessment (CoARA) in 2022, the University developed an Action Plan for 2024–2028, presenting how to implement the concluded agreement.

COOPERATION



48 protection titles obtained at the Polish Patent Office

29 strategic partners

11 spin-off companies

19 projects implemented as part of
Erasmus+ Action 2 program

COOPERATION WITH THE SOCIO-ECONOMIC ENVIRONMENT

Clusters

Lodz University of Technology is a member or coordinator of five clusters:

- Lodz ICT Cluster
- Bioeconomy Cluster Association
- Lodz Energy Wave Cluster
- Cluster "LODZistics - Logistics Business Network of Central Poland"
- Cluster Q

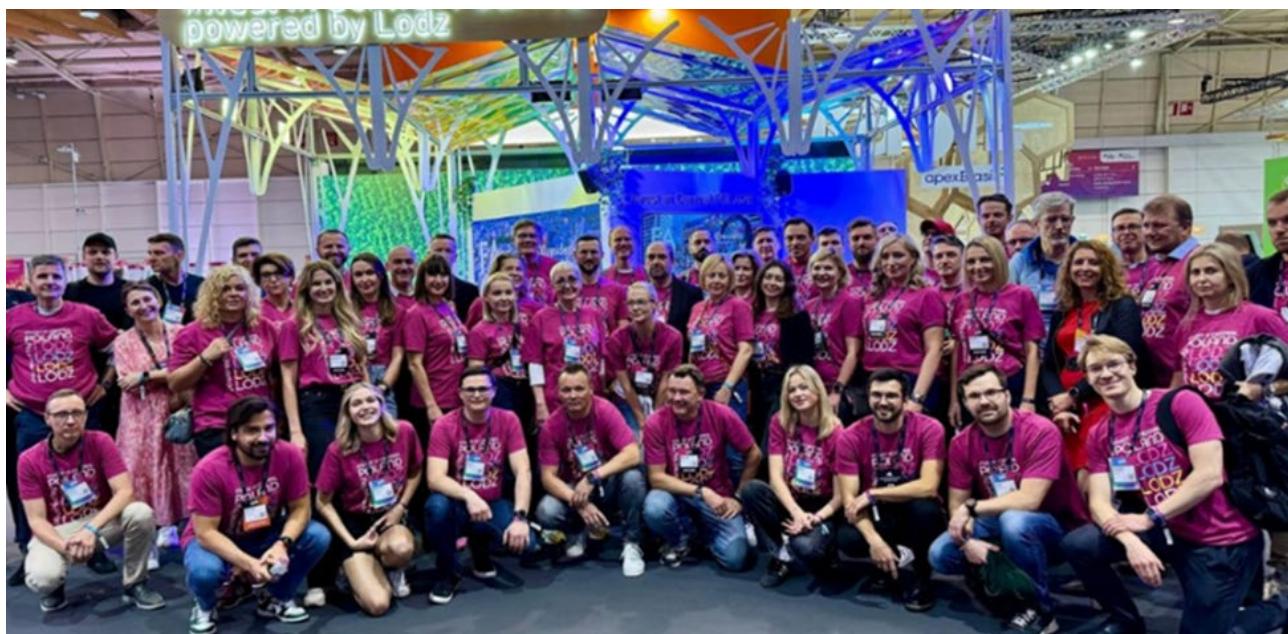
The following have joined the group of members of the Lodz ICT Cluster: HackerU, TrustIT, Procter&Gamble, WSB Merito University.

Lodz ICT Cluster became the substantive partner of the Re_d Rethink Digital Fest Festival organized by the Lodz Special Economic Zone. It is one of the most opinion-forming and visionary business and technology festivals in Poland.

The cluster organized two meetings from the "C-level meeting" series, during which issues related to the widening generation gap at universities were discussed in the context of further education of highly specialized staff for the Lodz labour market.

There were also two debates from the "Trends I(T) Revolutions" series related to AI in the context of threats and challenges for IT and Smart City/Smart Home. The debates were watched by almost 100,000 people on the YouTube channel of the Lodz ICT Cluster.

In 2024, the Lodz ICT Cluster was a partner of many events, including SHEnergy conference, organized by Transition Technologies PSC, WebSummit 2024 in Lisbon, "Cybersecurity and Artificial Intelligence Forum".



Join IT in Lodz

The events that took place under the slogan "Parent in IT" ended with a debate on the IT industry from the parents' perspective. We learned the stories of 17 heroes – parents working in IT, for whom parenting did not prevent in their personal and professional development.

Lodz IT Days (ŁDI)

The Lodz ICT Cluster organized the eighth edition of the Lodz IT Days. The theme of the event was focused on cybersecurity, AI, programming and cloud technologies.



ŁDI 2024 in numbers

1210 visitors

580 secondary school students

630 students

17 expert lectures

18 expert workshops

100 invited guests

Cluster "LODZistics - Logistics Business Network of Central Poland"

22 new members were accepted as participants of the Cluster of the Employers' Association "LODZistics - Logistics Business Network of Central Poland": 3QCode, Abuk OHS, Autostore, BINCODE, Bisar, Cushman&Wakefield, DBR77, Decathlon, DGM Poland, Elcar, Ferag, Gremi Personal, Hatrans Logistics, Hearing, Hutchinson Institute, Ideal Services, Intermarium, InPost, Logsoft, Reesink Logistic Solutions, Polish Road Transport Institute, Troax.

Events coorganised by the LODZistics cluster included Logistics and Warehouse Trends and Occupational Safety Conference Depends on You - From factory work to platform work.

Lodz Energy Wave Cluster

As part of its cooperation with the Lodz Energy Wave Cluster, TUL worked on developing its renewable energy sources to support a joint application to the Energy Regulatory Office. The goal is to obtain a special 'cluster tariff' for distributed energy produced within the cluster.

International Congress Culture of the Regeneration City

In 2024, the 4th International Congress Culture of the Regeneration City took place, with the participation of Lodz University of Technology as a substantive partner. The program board of the Congress from the University of Technology included Rector of TUL Prof. Krzysztof Jóźwik, Prof. Marek Janiak, Prof. Marek Pabich, dr inż. arch. Robert Warsza. Among the speakers were Prof. Grzegorz Liśkiewicz from the Faculty of Mechanical Engineering, from the Faculty of Civil Engineering, Architecture and Environmental Engineering, dr inż. arch. Joanna Matuszewska, dr inż. Aneta Tomczak and student Wiktoria Stasiak.

Digital Development Clubs

The project is a multi-year project co-financed by the European Social Fund Plus. The KRC Support pilot phase was implemented in order to select the first 64 municipalities to test the assumptions of the project. The tasks in the project are carried out by 6 partner organizations, with the Digital Poland Project Centre

as the Lead Partner. One of the partners is Lodz University of Technology. The University is to cover the Lodz, Świętokrzyskie and Kujawsko-Pomorskie voivodeships.

Corning Day

Corning Day is an event prepared by Corning together with Lodz University of Technology and the Student Young Microelectronics Section of the Fiber Optics Club. As part of the lecture, the audience had the opportunity to inspect fragments of fibre optic cables. In 2024, the event was also attended by representatives of the Academy of Fine Arts with an exhibition of glass works.

WorldCIST 2024 Conference

The event, organized for the twelfth time, took place in Lodz. The conference is a global, international forum for researchers and practitioners in the field of information systems and technologies, where the latest trends and innovations in this field are discussed. More than 120 scientists met at the Institute of Information Technology at the Faculty of Technical Physics, Information Technology and Applied Mathematics.

TUL Research Centre for Defence and Security Technologies

The Research Centre for Defence and Security Technologies operates at the University. In 2022, Lodz University of Technology, Warsaw University of Technology and Silesian University of Technology concluded the "Jastrząb" Agreement, which brings together the research centres of these universities. In 2024, the Białystok, Częstochowa and Rzeszów Universities joined the "Jastrząb" Agreement.

The University organized cooperation with industry, including defence companies and other entities working for defence and security, including: Miranda Military, Prexer, Wifama-Prexer, Intap Advanced Technology, RBL, Polish Chamber of Unmanned Systems, Zakłady Sprzętu Precyzyjnego Niewiadów and Grupa Niewiadów.

Protection of intellectual property*

In 2024 Lodz University of Technology obtained 48 protection titles from the Polish Patent Office. Cases pending before the Polish Patent Office included 185 applications for patents and 1 application for utility models.

Exclusive rights upheld at the Polish Patent Office:

- 393 patents for inventions,
- 5 utility model protection rights,
- 27 trademark protection rights,
- 2 rights from registration of integrated circuit topographies.
- 2 rights from registration of industrial designs.

Applications to the Polish Patent Office

Inventions	Utility models	Industrial designs
2023 - 80	2023 - 1	2023 - 0
2024 - 67	2024 - 0	2024 - 2

Protection titles obtained at the Polish Patent Office

Patents	Protective rights for utility models	Protective rights for industrial designs
2023 - 73	2023 - 4	2023 - 0
2024 - 44	2024 - 2	2024 - 2

*according to the data held by the TUL Patent Attorneys' Office

According to a report published by the Patent Office of the Republic of Poland, Lodz University of Technology ranks 4th in the ranking of domestic and foreign applicants according to the number of patents granted in 2023.

Industrial property objects filed with foreign patent offices in 2024 by the University: 1 invention in the PCT mode.

Exclusive rights upheld by foreign patent offices:

- 1 patent in Belgium,
- 1 patent in France,
- 1 patent in Spain,
- 1 patent in Ireland,
- 1 patent in Japan,
- 1 patent in Luxembourg,
- 1 patent in Germany,
- 1 patent in Switzerland/Lichtenstein,
- 1 patent in the United Kingdom,
- 1 patent in Italy,
- 1 patent in the USA.

Commercialization

In 2024, a number of measures were taken in TUL to establish cooperation between the scientific community and the business environment.

In 2024, there were 11 spin-off companies established to commercialize the results of TUL research.

Award-winning innovative solutions of the University:

- During the GENEVA INVENTION 2024 exhibition, the silver medal was awarded to the invention FOSREM-3D: Fiber Optic Rotational Event Monitoring System of Lodz University of Technology by the Department of Microelectronics and Information Technology and Elproma Elektronika Sp. z o.o.
- During EUROINVENT 2024, the gold medal was awarded to the innovative project "PLA-based composite material: method of production and application".
- The prestigious Thai Award for the Best International Invention and Innovation was given to " PLA-based composite material: method of production and application ", which was presented at the International Fair "Ideas – Inventions – New Products" (iENA 2024) in Nuremberg.
- Two gold medals were awarded at the exhibition "Perlis International Engineering Invention & Innovation Exhibition (Pi-ENVEX) 2024" in Malaysia for:
 - "Sodolite" technology, a cooling and insulating composite that has been implemented in the industry and is used in fire curtain walls made of glass and aluminum.
 - The "SpiderBot hexapod" robot, designed by students and members of the UbiCOMP Research Group.



In 2024, the Technology Transfer Section team also undertook a number of activities aimed at obtaining projects financed from EU and national funds on the subject of technology transfer.

Lodz University of Technology and the Medical University of Lodz became partners in the "Science4Business – Science for Business" project supervised by the Ministry of Science and Higher Education, receiving funding for the implementation of the "Development Incubator" task. Joint activities will improve the effectiveness of cooperation between science and business and support technology transfer and innovation.

Young in Business

The Academic Entrepreneurship Section team together with a part of the Technology Transfer Section team participated in the "Young in Business" event organized by the Zgierz Entrepreneurs Service Centre. This event was part of a series of meetings aimed at inspiring and motivating young people to undertake business activities. As part of the event, the Section team conducted a lecture entitled "Let's make a start-up", in which he presented the basic assumptions of start-up projects and discussed the steps necessary to transform ideas into real business ventures.

Net revenues from commercialization in 2024 amounted to PLN 174.2 thousand (PLN 1,333.2 thousand in 2023).

Creators on account of commercialization were paid salaries in the amount of PLN 99.83 thousand.

Contract research services

Sales value of research work and services performed under contracts with businesses, individuals or other entities:

Total	
2023	PLN 15,896.4 thousand
2024	PLN 16,587.5 thousand

including works commissioned by:

domestic entities	foreign entities
PLN 10,738.9 thousand	PLN 5,157.5 thousand
PLN 10,453.1 thousand	PLN 6,134.4 thousand

Theses and project work carried out in cooperation with industry



171

completed design work in the cooperation with industry



226

completed diploma theses with in cooperation with industry

Theses for the region

The 15 winners of the 25th edition of the Competition of the Marshal of the Lodz Voivodeship for the best dissertations and works thematically related to the Lodz Voivodeship included 9 people from Lodz University of Technology, whose works promoted the region and contributed to its social, economic and cultural development:

- doctoral dissertations: 3,
- diploma theses / master's theses: 4,
- engineering theses: 2.

Accredited Research Laboratories

In 2024, TUL operated 3 accredited research laboratories:

- Specialized Sugar Analytical Laboratory,
- LAB-TEX Laboratory,
- Research Laboratory for Building Materials and Building Physics.

Cooperation with external partners established in 2024

The University undertook a number of activities aimed at establishing cooperation between the scientific community and the socio-economic environment, gradually increasing the group of external partners.

Cooperation between TUL and Poland in Silicon Valley Centre

A cooperation agreement was signed with Poland in the Silicon Valley Centre for Science, Innovation, and Entrepreneurship, including the promotion and publication of research results and cooperation between universities and industry. Joint activities promoting the results of scientific research and cooperation with industry carried out by universities will build a bridge between Poland and Silicon Valley.



Cooperation with the ŁUKASIEWICZ Research Network

A cooperation agreement was concluded between TUL and the Łukasiewicz Research Network. Strengthening cooperation with the business and scientific community aims to build a competitive advantage thanks to technological and design innovations. The agreement was signed during the New Mobility Congress.



National Food Industry Group S.A.

An agreement was signed between Lodz University of Technology and the National Food Industry Group S.A. (KGS). It aims to increase the level of innovation of the Polish economy in the agricultural, food and feed sectors.



Uma Investments Sp. z o.o.

Lodz University of Technology and Uma Investments Sp. z o.o., part of the international Kellanova concern, known for the production of Pringles chips, have established cooperation for the development and education of students and joint research and development initiatives.



Central Office for Combating Cybercrime

An agreement was signed to expand cooperation between TUL and the Central Office for Combating Cybercrime (CBZC). It will allow for establishing cooperation in the field of building appropriate human competences, as well as the implementation and testing of new technologies and solutions in the field of computer science, including investigative computer science.



INTERNATIONAL COOPERATION

The European Consortium of Innovative Universities (ECIU)

TUL continues its activities in the elite network of European universities ECIU (European Consortium of Innovative Universities), which aims to promote education, research and knowledge exchange, as well as innovation in social life.

ECIU SEED Programme

The academic staff of the University are also actively involved in the activities of the consortium. Members of the ECIU R&I Experts group from the Science Support Centre coordinated the University's participation in the ECIU SEED Program competition, in which as many as 15 applications were received from Lodz University of Technology, 7 of which received funding.

Dr hab. inż. Agnieszka Dybała-Defratyka,, Director of the Science Support Centre, became the chairman of the ECIU R&I Expert Group.

ECIU4Ukraine vol. 2

The University implemented the ECIU4Ukraine vol. 2 project, aimed at supporting international integration at 10 Ukrainian universities by bringing partner institutions closer to the idea of the European University. A conference summarizing the activities was organized, during which experience from the implementation of the project was shared.

A group of representatives of 10 universities from Ukraine took part in the 4th International Congress Culture of the Regeneration City and in the training on the Challenge Based Learning method and micro-credentials (second edition).



European Student Assembly in the European Parliament

TUL was represented at the European Student Assembly (ESA) event by three ECIU Ambassadors at TUL. ESA is one of the flagship projects of the European Community of Universities, where a group of students discusses the challenges facing the European Union.



FOCI and ESEU projects

Lodz University of Technology organized, with the participation of representatives of the European Commission and project partners from the YUFE, ECIU and EPICUR alliances, a webinar summarizing the state of activities carried out under the foci (Future-proof Criteria for Innovative European Education) project.

ECIU University Forum 2024

At the networking event, important for the ECIU alliance, TUL was represented by 6 students (including 2 ECIU ambassadors) and 9 University employees.

“Teaching TUL – Immersive Summer School”

The international summer school was organized by TUL in cooperation with ECIU. School participants had the opportunity to acquire practical skills in the field of an innovative methods of learning, including Challenge-based Learning (CBL), modern teaching tools, methods of working in groups, assessment techniques and language competences.



Strategic partners:

- École nationale supérieure d'arts et métiers - ENSAM (France)
- École Supérieure de la Performance - INEMA (France)
- ECAM La Salle (France)
- Institut catholique d'arts et métiers- ICAM (France)
- Hochschule für Technik und Wirtschaft des Saarlandes - HTW Saar (Germany)
- University of Applied Sciences (Germany)
- Instituto Superior de Engenharia do Porto -ISEP (Portugal)
- Max Planck Institute for Polymer Research (Germany)
- Saxion University of Applied Sciences (Netherlands)
- University of Alcala (Spain)
- Universitat Politècnica de València (Spain)
- Universidad de Vigo (Spain)
- UPC- Universitat Politècnica de Catalunya (Spain).
- Technical University of Liberec (Czech Republic)
- Università degli Studi di Napoli Federico II (Italy)
- University of Agder (Norway)

within the ECIU network:

- Aalborg University (Denmark)
- Dublin City University (Ireland)
- Hamburg University of Technology (Germany)
- Institut National des Sciences Appliquées (France)
- Kaunas University of Technology (Lithuania)
- Linköping University (Sweden)
- Tampere University (Finland)
- Tecnológico de Monterrey (Mexico)
- Universitat Autònoma de Barcelona (Spain)
- University of Aveiro (Portugal)
- University of Stavanger (Norway)
- University of Trento (Italy)
- University of Twente (Netherlands)

Cooperation agreement with a Chinese university

An agreement was signed between Lodz University of Technology and Jimei University from China. On the part of the Chinese university, the agreement was initialised by the president of the Jimei University Xie Chaotian, and on behalf of TUL by Prof. Krzysztof Józwik. Establishing and developing cooperation took place with the support of the Polish-Chinese Foundation for Academic Cooperation. The education program will cover several dozen students from China.



International educational projects at TUL

As part of the Action 2 of the Erasmus+ Cooperation of Organizations and Institutions program, Lodz University of Technology implemented 19 educational projects during the reporting period, acting as the leader or partner of the consortium. In three other initiatives, TUL served as an associate partner. In 2024, the University received funding in the total amount of over EUR 1 million for the coordination of 4 projects of the Cooperation Partnership type within the following sectors: higher education (2), school education (1), vocational education and training (1).

- ACE Project: Alliance for Community Engagement in European Higher Education

The project was created with the aim of building more inclusive and interconnected higher education systems by deepening and expanding the scope of the university's social involvement. The basis for the partners' activities will be an innovative model of cooperation – the so-called quadruple helix, which takes into account science, industry, public administration as well as society and institutions representing them (e.g. non-governmental organizations).



The work of the consortium is coordinated by the director of ICC – Prof. Dorota Piotrowska. Partners in the project are: ACEEU GmbH (Germany), University of Belgrade (Serbia), Technological University of the Shannon: Midwest Balance (Ireland), University of Tartu (Estonia), European e-Learning Institute (Denmark).

- GreenEDU Project - Closing the Gaps Between Higher Education and the Green Economy

The project aims to bring higher education closer to the needs of the green economy. An international consortium will create innovative educational solutions that will help develop students' green and digital skills, preparing them for the challenges of the modern labour market. The project will create innovative educational materials and resources such as e-Toolkit, GreenEDU AR Green Curriculum, digital puzzle rooms and animated films that will promote students' green and digital skills.



GreenEDU

The project coordinator is dr hab. inż. Aneta Poniszewska-Marańda, TUL Prof. (Institute of Information Technology at the Faculty of Technical Physics, Information Technology and Applied Mathematics). Partners in the project: University of Nicosia (Cyprus), University of Tartu (Estonia), VIVES University of Applied Sciences (Belgium), Innovade LTD (Cyprus), CleverMind Foundation (Poland).

- IntegratESG project "IntegratESG in VET education"

The project aims to build the capacity of vocational education and training (VET) participants and managers of large enterprises and SMEs to implement ESG (Environmental, Social and Corporate Governance) practices in their business strategies and activities. The consortium will work on an education framework and action plan to integrate ESG issues into vocational education and training programs.



The project coordinator is dr hab. inż. Aneta Poniszewska-Marańda, TUL Prof. (Institute of Information Technology at the Faculty of Technical Physics, Information Technology and Applied Mathematics). Partners in the project: SBC School of Business Competences (Bulgaria), European Grants International Academy Srl (Italy), Institute of Development LTD (Cyprus), Die Berater Unternehmensberatungs Gesellschaft MBH (Austria), CleverMind Foundation (Poland).

- Project AiM (AUTISM IN MOTION)

Encouraging Well-Being and Healthy Habits among Children with Autism through Professional Training and the Integration of Emerging Technologies



The aim of the project is to build a more inclusive learning environment for children with ASD (Autism Spectrum Disorder), as well as to support their independence and develop social, personal and mental and physical well-being skills. Partners will organize innovative discussion forums to accurately identify the needs of the target group.

The project coordinator is dr hab. inż. Grzegorz Granosik, TUL Prof. (Faculty of Electrical, Electronic, Computer and Control Engineering). Partners: Directorate of Primary Education of Western Thessaloniki (Greece), Associação Portuguesa para as Perturbações do Desenvolvimento e Autismo de Coimbra Portugal Centro (Portugal), A&A Emphasys Interactive Solutions Ltd (Cyprus), Natsionalna Asotsiatsia Na Resursnite Uchiteli (Bulgaria), HPO Media Management LTD (Cyprus).

Welcome Point

Key activities undertaken in 2024 included the organization of webinars for applicants "Welcome to Poland", and support during visits by representatives of companies and foreign universities including Frank Educations, University of Genoa, Riga Technical University, National University of Uzbekistan, Istanbul Arel University, University of Aveiro, Malta College for Arts, Science and Technology MCAST, Erasmus Paris Sorbonne Nouvelle.

In total, Welcome Point served 273 people in 2024.

ActiveD2–Active Double Degree

A conference summarizing the ActiveD2 Project was organized, during which good practices on double diploma were presented, developed by a consortium (Lodz University of Technology, Arts et Métiers, University of Vigo and ECAM LaSalle) in the project "Active Double Degree – Implementation of a model of joint studies based on active methods of education and learning".

Student exchange

As part of the student exchange, 616 students left in 2024, i.e. 37.2% more than in 2023. The number of foreign students coming to Lodz increased by 4.5% compared to 2023.

Erasmus+ mobility continued to dominate and accounted for 66.2% of all student mobility in 2024.

67 students from Lodz University of Technology attended conferences, seminars and workshops. As part of the IAESTE International Internship Program for students, 24 students from TUL went to foreign countries and 20 foreign students came to TUL.

Departures and arrivals of students for studies and student internships

Arrivals	Departures
2023 - 550	2023 - 449
2024 - 575	2024 - 616

Departures and arrivals of students under the Erasmus+ program

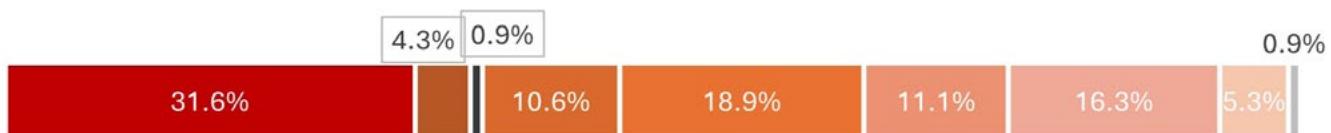
Arrivals	Departures
2023 - 417	2023 - 331
2024 - 384	2024 - 408

Within the framework of the dual diploma program, 7 students from TUL went to foreign countries and 22 foreign students came to TUL.

International contacts of staff and doctoral students

In 2024, Lodz University of Technology employees made 790 (compared to 799 in 2023) foreign trips. Doctoral candidates at TUL undertook 74 (121 in 2023) trips abroad.

Employee trips by purpose



- Scientific events
- Scientific and long-term research internships
- Project meetings
- Training trips
- Implementation of scientific research
- Teaching trips
- Organizational
- Other

- Short-term academic and research internships
- Implementation of scientific research
- Teaching trips
- Organizational

Doctoral student's trips by purpose



- Scientific events
- Scientific and long-term research internships
- Project meetings
- Implementation of scientific research
- Training trips
- Other

- Short-term academic and research internships
- Implementation of scientific research
- Training trips

In 2024 the University recorded 198 foreign visitor arrivals, an increase of 31.7% over the previous year.

Arrivals of foreign visitors by purpose of trip



- Scientific events
- Scientific and long-term research internships
- Project meetings
- Implementation of scientific research
- Arrivals for teaching purposes
- Organizational visits
- Study visits

- Short-term academic and research internships
- Implementation of scientific research
- Arrivals for teaching purposes
- Organizational visits

Membership in international organizations

Employees of TUL and the University as an academic institution are members of 207 international organizations, including:

- AIAA – American Institute of Aeronautics and Astronautics,
- ACM – Association for Computing Machinery,
- AIS – Association for Information System,
- AMS – American Mathematical Society,
- ASME – American Society of Mechanical Engineering,
- BUP – Baltic University Program International Board,
- CIRP – The International Academy for Production Engineering,
- CMS – Canadian Mathematical Society,
- EAEA – European Architectural Envisioning Association,
- ECNP – European Centre for Nanostructured Polymers,
- EFB – European Federation of Biotechnology,
- ESAO – European Society for Artificial Organs,
- IACM – International Association of Computational Mechanics,
- IBPSA – International Building Performance Simulation Association,
- IEEE – Institute of Electrical and Electronics Engineers,
- INSTICC – Institute for Systems and Technologies of Information, Control and Communication,
- TAPPI – Technical Association of the Pulp & Paper Industry,
- TICCIH – The International Committee for the Conservation of the Industrial Heritage,
- TREX – The European Centre of Excellence in Exascale Computing.

Seminars, lectures abroad

In 2024, TUL employees gave 119 lectures (112 in 2023) at 86 foreign universities, including: Technische Universität Dresden (Germany), Technical University of Liberec (Czech Republic), University of Iceland (Iceland), University of Aveiro (Portugal), Texas A&M University (USA), Ecole Polytechnique de Montréal (Canada), University of Glasgow (UK), University of Bologna (Italy), University of USAQ (Turkey), Technical University of Crete (Greece), Universitatea de Stat din Moldova (Moldova).

50 courses and seminars were organized at the University with the participation of foreign specialists.

Events

- *Mobility Picnic*

In 2024, the first edition of Mobility Picnic – an outdoor event financed by the Erasmus+ program – took place on the campus of Lodz University of Technology. The initiative was an addition to the flagship event of Lodz University of Technology Mobility Week, and its main aim was to remind the academic community about the opportunities offered by the Erasmus+ program. The picnic is planned to continue in future years, becoming a permanent part of the university's event calendar.



- *Mobility Week 2024*

Once again, TUL hosted Mobility Week – a week of events promoting mobility among students and university staff. The event was accompanied by the presentation of awards for Mobility Leaders at TUL for the academic year 2023/2024.

During the Erasmus Café, students who had already participated in the Erasmus + program shared their experiences, and ICC employees answered questions about mobility possibilities.

- *Visit of the French Ambassador to IFE*

In March 2024, IFE hosted the Ambassador of France to Poland, Mr. Etienne de Poncins with associates and the Honorary Consul of France in Lodz, Mrs. Alicja Bień. This was Ambassador Poncins' first visit to Lodz University of Technology.

The purpose of His Excellency's visit was to get acquainted with the flagship IFE project, the French Academy of Young Engineers, as well as to discuss the perspectives and plans for the development of other Francophone projects in Lodz and the region.

- *European Youth Week 2024*

As part of the European Youth Week, TUL hosted young people from different parts of Europe. The meeting was an opportunity to promote youth activity and exchange experiences. Participants took part in the workshop "Volunteering – the power of young people in building Europe" conducted by the Erasmus+ InnHub Innovation Center, a walk around the TUL Campus and a meeting with Welcome Point and ESN-EYE Lodz, "Studying is not just a science!".



UNIVERSITY GOVERNANCE



PLN 6,1 million net income

PLN 121,9 million subsidy for maintenance of research potential

PLN 339,4 million subsidy for maintenance of educational potential

PLN 112,2 million investment expenditures

PLN 5,8 million IDUB subsidy

ORGANISATION

Authorities of the University

term 2020-2024 to 31 August 2024

RECTOR

Prof. Krzysztof Jóźwik Ph.D., D.Sc.

VICE-RECTORS

Vice-Rector for Science

Prof. Lukasz Albrecht Ph.D., D.Sc.

Vice-Rector for Development

Prof. Paweł Strumiłło Ph.D., D.Sc.

Vice-Rector for Education

Assoc. Prof. Andrzej Romanowski Ph.D., D.Sc.

Vice-Rector for Student Affairs

Assoc. Prof. Witold Pawłowski Ph.D., D.Sc.

DEANS

Faculty of Mechanical Engineering

Prof. Tomasz Kubiak Ph.D., D.Sc.

Faculty of Electrical, Electronic, Computer and Control Engineering

Assoc. Prof. Jacek Kucharski Ph.D., D.Sc.

Faculty of Chemistry

Prof. Małgorzata Iwona Szynkowska-Jóźwik Ph.D., D.Sc.

Faculty of Material Technologies and Textile Design

Prof. Katarzyna Grabowska Ph.D., D.Sc.

Faculty of Biotechnology and Food Sciences

Assoc. Prof. Anna Diowksz Ph.D., D.Sc.

Faculty of Civil Engineering, Architecture and Environmental Engineering

Prof. Dariusz Gawin Ph.D., D.Sc.

Faculty of Technical Physics, Information Technology and Applied Mathematics

Prof. Adam Wojciechowski Ph.D., D.Sc.

Faculty of Organization and Management

Prof. Agnieszka Zakrzewska-Bielawska Ph.D., D.Sc.

Faculty of Process and Environmental Engineering

Prof. Grzegorz Wielgosiński Ph.D., D.Sc.

term 2024-2028 from 1 September 2024

Prof. Krzysztof Jóźwik Ph.D., D.Sc.

Vice-Rector for Science

Prof. Lukasz Albrecht Ph.D., D.Sc.

Vice-Rector for Development

Prof. Paweł Strumiłło Ph.D., D.Sc.

Vice-Rector for Education

Assoc. Prof. Andrzej Romanowski Ph.D., D.Sc.

Vice-Rector for Student Affairs

Assoc. Prof. Witold Pawłowski Ph.D., D.Sc.

HEADS OF SCIENTIFIC DISCIPLINES (term from 1 October 2020 to 30 September 2024)

- Prof. Marek Balcerzak Ph.D., D.Sc. (until September 2022), Assoc. Prof. Filip Strobin Ph.D., D.Sc. (since October 2022) – mathematics,
- Assoc. Prof. Sławomir Hausman Ph.D., D.Sc. – automation, electronic, electrical engineering and space technologies,
- Prof. Łukasz Kaczmarek Ph.D., D.Sc. – materials engineering,

- Prof. Hanna Kierzkowska-Pawlak Ph.D., D.Sc. – chemical engineering,
- Prof. Maria Koziotkiewicz Ph.D., D.Sc. (until September 2022), Prof. Grażyna Budry Ph.D., D.Sc. (since October 2022) – food and nutrition technology,
- Prof. Tomasz Kubiak Ph.D., D.Sc.– mechanical engineering,
- Prof. Marcin Kamiński Ph.D., D.Sc.– civil engineering, geodesy and transport,
- Prof. Marek Pabich Ph.D., D.Sc.– architecture and urban planning,
- Assoc. Prof. Robert Sarzała Ph.D., D.Sc. – physical sciences,
- Prof. Anna Fabijańska Ph.D., D.Sc. – information and communication technology,
- Prof. Małgorzata Iwona Szynkowska-Jóźwik Ph.D., D.Sc. – chemical sciences,
- Prof. Agnieszka Zakrzewska-Bielawska Ph.D., D.Sc. – management and quality studies.

HEAD OF THE DISCIPLINE COUNCILS (term from 1 October 2024 to 30 September 2028)

- Prof. Andrzej Bartoszewicz Ph.D., D.Sc. – Discipline Council of automation, electronic, electrical engineering and space technologies,
- Assoc. Prof. Maciej Dems Ph.D., D.Sc. – Discipline Council of physical sciences,
- Prof. Anna Fabijańska Ph.D., D.Sc. – Discipline Council of information and communication technology,
- Prof. Jacek Jachymski Ph.D., D.Sc. – Discipline Council of mathematics,
- Prof. Jarosław Jędrysiak Ph.D., D.Sc. – Discipline Council of civil engineering, geodesy and transport,
- Prof. Lukasz Kaczmarek Ph.D., D.Sc. – Discipline Council of materials engineering,
- Prof. Hanna Kierzkowska-Pawlak Ph.D., D.Sc. – Discipline Council of chemical engineering,
- Prof. Marek Pabich Ph.D., D.Sc. – Discipline Council of architecture and urban planning,
- Prof. Przemysław Perlikowski Ph.D., D.Sc. – Discipline Council of mechanical engineering,
- Prof. Małgorzata Iwona Szynkowska-Jóźwik Ph.D., D.Sc. – Discipline Council of chemical sciences,
- Prof. Agnieszka Zakrzewska-Bielawska Ph.D., D.Sc. – Discipline Council of management and quality studies,
- Prof. Dorota Żyżelewicz Ph.D., D.Sc. – Discipline Council of food and nutrition technology.

ACTIVITIES



10

meetings of the TUL Senate



72

Resolutions of the TUL Senate



90

Ordinances of the Rector of TUL

In 2024, 10 meetings of the Council of Lodz University of Technology were held, of which 3 were held face-to-face and 7 were held remotely, during which 19 resolutions were adopted. The new member of the Council of Lodz University of Technology in the term of office, lasting until December 31, 2024, was Prof. Tomasz Kubiak.

Changes in management and organization to ensure the smooth operation of the university:

- Rector's committees, disciplinary spokespersons and proxies were appointed in 2024–2028
- The Senate Resolution on the appointment of chairpersons of standing Senate committees and the announcement of their composition was amended
- Rules for ensuring accessibility for people with special needs in the field of architectural accessibility in the facilities of Lodz University of Technology were defined
- An update to the regulations governing social activities at Lodz University of Technology was introduced
- Internal Anti-Discrimination and Anti-Mobbing Policies for Lodz University of Technology were introduced
- Principles of periodic evaluation of non-academic staff were introduced and established
- The Regulations of the Scientific Research Ethics Committee of Lodz University of Technology were established
- An internal procedure has been established for reporting violations of law and taking follow-up actions at Lodz University of Technology
- Rules for the verification of persons in connection with the provisions of the Act on counteracting threats of sexual crime and the protection of minors were established and Standards for the protection of minors were introduced
- The scope of tasks and powers of the Student Ombudsman were established
- Conditions for receiving the certificate of completion of postgraduate studies in Polish and English were specified. Arrangements for the organization and conduct of postgraduate studies, courses and training were changed.

The following changes were made to the organizational structure of the University:

Rector's Division	Vice-Rector for Development Division
Student Ombudsman organizational unit has been created	Centre for Innovation and Entrepreneurship was dissolved

Division of the Vice-Rector for Science

Project Service Centre was dissolved

University-wide units

Centre for Innovation and Entrepreneurship of
Łódź University of Technology

**Faculty of Material Technologies
and Textile Design**

Institute of Material Science of Textile and
Polymer Composites was transformed into the
Institute of Textiles

Division of the Vice-Rector for Education

Centre for Teaching and Learning:

- the Curriculum Division was transformed into the Education Programs Section
- the Technical and Administrative Support Section was transformed into the Qualification Certification Section
- the Education Programs Service Section was created
- the Education Quality Section was created

Electronic Records Management

Based on office and archival standards, classes in the Uniform Subject File List were divided into electronic and traditional. In 2024, Łódź University of Technology had 100 electronic classes and 373 traditional classes. The introduction of electronic classes contributed to the full digitization of some cases and documents contained therein. The EZD PUW system was integrated with the e-Delivery platform in order to implement the activities resulting from the Act on Electronic Deliveries (i.e. Journal of Laws of 2024, item 1045). For this purpose, a connection was made via the API of the intra-university ZSID system with the EZD in the scope of generating correspondence sent to students.

TUL on the road to sustainable development

Another report on activities under the Race to Zero initiative was prepared, summarizing the activities carried out at Łódź University of Technology in 2023.

During the conference "Climate for action: Building a sustainable development brand", which took place at the Gdańsk University of Technology, the University presented good practices from Łódź University of Technology in the field of sustainable development.

In the 8th edition of the "IDEA BOX" competition, 52 ideas were submitted to improve the comfort of working, studying and spending time at the university. 11 ideas were sent by the Rector of TUL to be implemented and further processed outside the competition budget.

TUL took 1st place in the "Pedal Away – Cycling to Work" campaign, whose goal was to promote the use of Łódź's city bike as an eco-friendly means of transport and to help reduce traffic congestion.

Rector of TUL Prof. Krzysztof Jóźwik together with the President of the Academy of Engineering in Poland, Prof. Jerzy Barglik, planted the "Gabriel" oak on B campus. The event was associated with the Scientific Symposium held at the University and the General Assembly of the Academy of Engineering in Poland.



A project entitled "RADWAŃSKA (with a new sidewalk) + STEFANOWSKIEGO (with new greenery)" provided for the renovation of the sidewalk at Radwańska Street and the introduction of further elements of greenery, shrubs and trees on Stefanowskiego Street, as well as point supplementation of pedestrian routes with sidewalks.

MARKETING ACTIVITIES



In cooperation with the university's units, activities continued to increase interest in studying under the "Doors Always Open" campaign. Numerous contacts with schools, mainly secondary schools, but also primary schools, were established. In addition, visits to 62 schools were organized.

The "Open Day" event gathered 2,300 people from more than 50 schools. The leitmotif of the event were games (computer, board, field). The most popular were appearances in the Inspiration Zone and field games ("Chemical Express", "Simlish") as well as mathematics block classes prepared by the Centre for Mathematics and Physics.

In 2024, the Open Day program offered classes for teachers for the first time. Prof. Adam Wojciechowski, together with a team from the Institute of Computer Science, conducted a seminar on "Artificial Intelligence in Education and Science".

During meetings conducted in several languages, including French, Portuguese, Spanish and Ukrainian, candidates could connect online with foreign TUL students – ambassadors of the event and learn from their peers about studying at our university. The application process was presented, as well as opportunities for developing passions and interests.

TUL presented itself at the Salony Maturzystów Perspektywy 2024 at the joint stand of Academic Lodz in 6 locations: Kraków, Wrocław, Warsaw, Łódź, Poznań and Toruń. The stand of the Academic Lodz was very popular among young people. TUL was represented by researchers and students from all faculties and units of the university.

Observing the increase in the popularity of podcasts, the following cycles were launched: "Tastes of science" devoted to food issues and "Artificial intelligence in a human way", in which various aspects of the use of AI were discussed. On the occasion of the 80th Jubilee of TUL, a series of "Four Rectors One University" was carried out with the participation of the late Prof. Jan Krysiński, Prof. Stanisław Bielecki, Prof. Sławomir Wiak and Prof. Krzysztof Jóźwik.



Websites and social media

Work continued on unifying the websites of institutes and departments, as a result of which 43 of the 45 departments and institutes and several university-wide units have active websites according to Łódź University of Technology template. A new employee profile available within WIKAMP was also developed.

Pages devoted to jubilee events of the 80th anniversary of Lodz University of Technology, Lodz Academic Partnership, Research Week were created and maintained.

A new admission service was launched, in which the content architecture was completely rebuilt, the field of study search engine was expanded and the point calculator was introduced. A new newsletter was also developed, and a Tidio chat was run during the admission period. The implementation was carried out in cooperation with Bluerank, which carried out two audits. The guidelines contained therein were then implemented on the website. In surveys conducted among applicants for studies (1,095 high school graduates), the website received a score of 8.13 out of 10 points after its launch.

The website www.cwm.p.lodz.pl was developed. An increase in website traffic was observed (121,000 new users). The site has received more than 158,000 page views.

In 2024, ongoing editing of the official Lodz University of Technology web pages on the web continued:

- NAWA
- STUDY IN LODZ
- STUDY IN POLAND
- KEYSTONE MASTERSTUDIES

Developed and led:

			
18 articles	12 newsletters	Lodz University of Technology fanpage - 680 posts, 28.9 thousand followers (increase by 1.7 thousand); Lodz University of Technology Admissions fanpage - 2.3 thousand recipients, 115 posts; IFE fanpage, TUL fanpage	200 posts, the number of followers increased by 3.9 thousand people and as of 31.12.2024 was 58.3 thousand
			
243 posts 885 stories 8 thousand followers	4.7 thousand followers	94 film premieres 11 live streams, 42 shorts, 2,500 subscribers (24% increase)	200 published content, the number of followers increased by 144 people and amounted to 4.1 thousand.

TUL in the media

Outreach activities use various channels to distribute news related to Lodz University of Technology.

The University cooperated very actively with TVP Lodz in the implementation of the TV series "Lodz Science". In each of a dozen or so episodes, solutions promoting research and projects carried out at the university were presented.

			 rzecznika prasowego
105 press releases, published at the same time on the website 'Information for the press'	responses to inquiries from the editors or materials in the form of comments, expert statements and interviews	1,091 contributions to press and trade magazines	over 100 posts, including 38 articles more than 250,000 views
			życie uczelni BIULETYN INFORMACYJNY POLITECHNIKI ŁÓDZKIEJ
Radio: 604 reports	television: 459 programs	web portals (excluding social media): 14,372 messages	4 printed issues www.zu.p.lodz.pl/ -257 articles, 97,500 views, 62,000 visitors
 Institute of Media Monitoring: 16,526 media releases in which the name of Lodz University of Technology appeared		 The advertising equivalent, expressed in PLN, in 2024 was estimated by the Media Monitoring Institute at PLN 92 million	

FINANCE

The year 2024 was another year in which there was a stable financial and payment situation for the university and a positive financial result.

Total revenues in 2024 amounted to PLN 624 578.5 thousand, while the amount of own costs was PLN 618 427.4 thousand. The gross financial result amounted to PLN 6,151.1 thousand and was reduced by corporate income tax in the amount of PLN 40.3 thousand.

The achieved net result (+ PLN 6,110.8 thousand) increased by depreciation in the amount of PLN 8,202.4 thousand allows the basic fund to increase in the amount of PLN 14,313.2 thousand, which is of great importance for the development of the university. The university can invest in development with subsidies from the Ministry of Science and Technology, NCNN, NCBiR, EU structural funds and other European and national funds. Thanks to this, Lodz University of Technology is an economically credible partner and is able to prove the possibility of financing its own participation, which is a necessary condition for granting funds from external programs, including programs co-financed from EU funds.

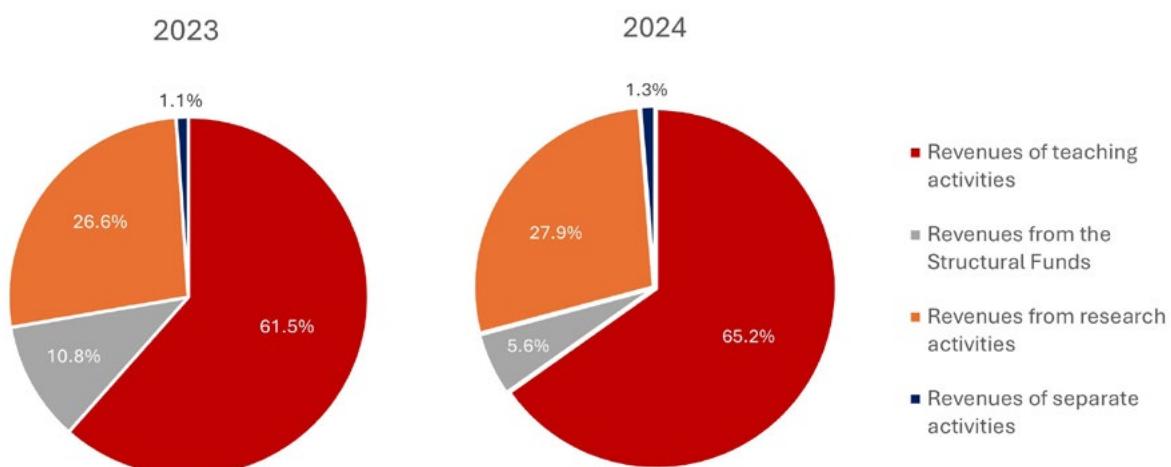
Comparative income statement in 2023–2024 (thousands PLN)

	2023	2024
Result on sales	-18,008.09	-11,923.45
<i>of which:</i>		
teaching activities	-20,386.46	-12,874.14
research activities	2,285.58	1,209.12
separate business activity	-13.28	-316.71
sales of goods and materials	106.07	58.28
Result on other operations	19,409.26	20,132.63
<i>of which:</i>		
equivalent to depreciation	16,605.42	19,749.36
Operating profit	1,401.17	8,209.18
Result on financial operations	1,563.88	-2,058.06
Gross profit/loss	2,965.05	6,151.12
Corporate income tax	125.97	40.34
Net profit/loss	2,839.08	6,110.78

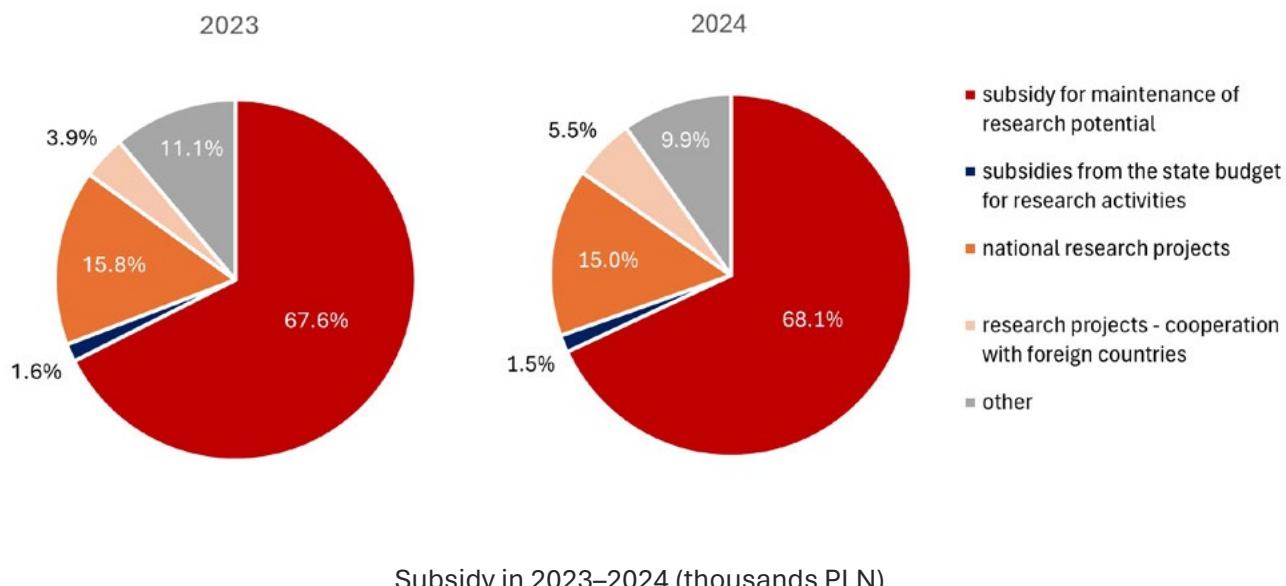
Revenues from core operations in 2023-2024 (thousands PLN)

	2023	2024
Income from core operations	572,146.20	642,573.35
<i>of which:</i>		
Revenue of teaching activities	352,126.04	419,037.73
<i>of which:</i>		
subsidy for maintenance of teaching capacity	276,644.80	339,385.57
subsidies from the state budget, including a pro-quality subsidy	562.61	276.15
fees for teaching services	16,608.18	15,025.76
other	58,310.45	64,350.25
Revenue from structural funds	61,630.98	36,304.14
Revenue from research activities	152,182.82	179,057.26
<i>of which:</i>		
subsidy for maintenance of research potential	102,794.25	121,861.27
<i>of which:</i>		
IDUB subsidy	5,781.60	5,781.60
subsidies from the state budget for research activities	2,461.36	2,759.13
national research projects	24,030.25	26,880.46
research projects - cooperation with foreign countries	5,956.80	9,911.33
other	16,940.17	17,645.08
Revenue of separated activities	6,206.35	8,174.22

Structure of revenue from core operations



Structure of revenue from research activities



Subsidy in 2023–2024 (thousands PLN)

	2023	2024
Subsidy from the Ministry of Science and Higher Education	389,143.6	487,909.0
<i>of which:</i>		
subsidy to maintain teaching potential	276,644.8	339,385.6
subsidy for maintenance of research potential	102,794.3	121,861.3
subsidy to finance fixed assets	9,704.5	26,662.1

In 2024, the University received a subsidy from the Ministry of Science and Higher Education for the total amount of PLN 487,909.0 thousand. The total amount of the Ministry of Science and Higher Education subsidy consists of a base subsidy in the amount of PLN 374,107.3 thousand and funds in the amount of PLN 113,801.7 thousand transferred in the form of an increase in subsidy, as funds addressed to specific purposes and activities including:

- PLN 81,703.3 thousand to increase the remuneration of the University's employees from January 1, 2024,
- PLN 5,781.6 thousand to increase the subsidy to the University for joining the program "The Excellence Initiative: Research University",
- one-off increases to the total amount of PLN 26,316.8 thousand, of which:
 - PLN 3,623.5 thousand for the implementation of the EU directive in the field of cybersecurity,
 - PLN 8,434.4 thousand for halls of residence,
 - PLN 10,000.0 thousand to finance the purchases and works necessary to complete the investment "ALCHEMIUM – magic of tomorrow's chemistry",
 - PLN 2,587.3 thousand to improve accessibility by creating conditions for people with disabilities to participate in the educational process and conduct scientific activities,
 - PLN 1,671.6 thousand to support the high level of doctoral education and preparation for the evaluation of the doctoral school.

The subsidy for salary increases was allocated according to the actual effects of the increases and to create a reserve of PLN 3,495,400 for a write-off to the Company Social Benefits Fund (ZFŚS).

The IDUB subvention funds were used in their entirety, mainly to fund awards to support the scientific activity of staff, doctoral candidates and students, to support the improvement of the skills of young researchers (FU2N fund, E²TOP), and to subsidize the participation of researchers in international conferences.

One-time increases were used in accordance with the allocation for current activities in the amount of PLN 6,516.8 thousand and for financing investment outlays in the amount of PLN 19,800.0 thousand.

The base subsidy in the amount of PLN 374,107.3 thousand was divided in accordance with the rules approved by the Senate and contained in Ordinance No. 57/2023 of the Rector of Lodz University of Technology of December 29, 2023, on the general rules for the distribution of subsidies for the maintenance and development of teaching and research potential in 2024.

From the subsidy the following were separated:

- Funds remaining in the Rector's reserve in accordance with Ordinance No. 57/2023 in the amount of PLN 35,856.3 thousand, consisting of:
 - PLN 13,356.3 thousand as a general reserve and reserve for mitigation of subvention distribution,
 - PLN 1,000.0 thousand as funds for the activities of student organizations, scientific circles, student and doctoral student government,
 - PLN 1,200.0 thousand for the promotion of TUL,
 - PLN 1,800.0 thousand to finance costs related to the write-off of the Social Insurance Fund for pensioners and the repayment of interest on the investment loan,
 - PLN 4,500.0 thousand for ensuring the implementation of important strategic goals,
 - PLN 5,000.0 thousand as co-financing of own participation in EU projects and ongoing central investments,
 - PLN 5,000.0 thousand as funding of scholarship payments at IDS TUL,
 - PLN 4,000.0 thousand for co-financing of repairs included in the central plan.
- Funds for organizational units from the centralized group in the amount of PLN 86,385.0 thousand, which were divided by amount according to the historically formed share of these units in the amount to be distributed depending on the size of the subsidy.
- Funds for organizational units from the decentralized group in the amount of PLN 251,866.0 thousand were divided using the applicable algorithm of the Ministry of Science and Higher Education.

As part of the funds from the basic subsidy for decentralized units, PLN 6,862.2 thousand was used for the purchase and construction of fixed assets.

The funds from the Rector's reserve were used in the amount of PLN 10,868.5 thousand to finance the tasks specified in Ordinance No. 57/2023, and in particular to finance: the Rector's prizes, task and incentive allowances, reimbursement of the effects related to exemption from teaching classes, co-financing the tasks of current organizational units and in the amount of PLN 15,436.5 thousand for an additional distribution of subsidy for centralized and decentralized units, in particular to compensate for the effects of reducing subsidy for Faculties to the amount of 2.0% as a result of algorithmic distribution, for the needs of doctoral students, to finance increased costs of functioning of the University, etc. Unused funds of the Rector's reserve in the amount of PLN 9,551.3 thousand remained in the financial result.

Remuneration

Salaries at TUL in 2023–2024 (thousands PLN)

	2023	2024
Total remuneration	307,425.89	343,466.04
<i>of which:</i>		
from the employment relationship	287,257.14	324,872.19
<i>of which:</i>		
personal	267,912.62	301,274.15
annual bonus salaries	19,344.52	23,598.03
mandate agreements and contracts for specific work	19,966.75	18,372.89

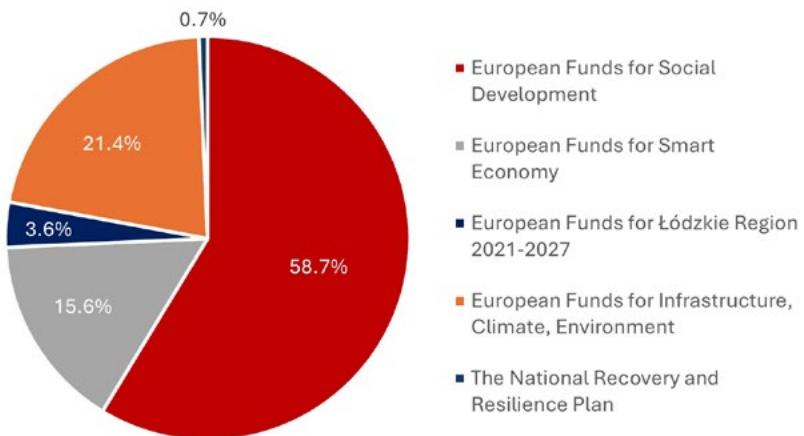
Structural Funds

In 2024, as part of the completed 2014-2020 perspective, Lodz University of Technology implemented a total of 4 projects from the Structural Funds under the Rural Development Program at the end of December 31, 2024.

In 2024, as part of the new 2021-2027 perspective, Lodz University of Technology launched 22 projects from the Structural Funds in the following operational programs:

European Funds for Social Development	11 projects
European Funds for Smart Economy	4 projects
European Funds for Łódzkie Region 2021-2027	2 projects
European Funds for Infrastructure, Climate, Environment	2 projects
The National Recovery and Resilience Plan	3 projects

The structure of funds obtained under the Structural Funds in the financial perspective 2021–2027



Under the Structural Funds, in the financial perspective 2021–2027, Lodz University of Technology received co-financing for the total amount of PLN 81,245.4 thousand.

Investment and renovation activities

In 2024, investment expenditures amounted to PLN 112,197.35 thousand, including investments commenced in the reporting year of PLN 27,862.10 thousand.

Investments (thousands PLN)

Expenditure	2023	2024
Expenditure	107,100.69	112,197.35
<i>by funding source:</i>		
Ministry of Science and Higher Education	45,345.20	13,717.14
Structural funds	24,710.37	1,821.59
Own funds	23,169.85	33,241.59
Funds from subsidy	9,704.55	39,234.15
Other	4,170.71	24,182.88

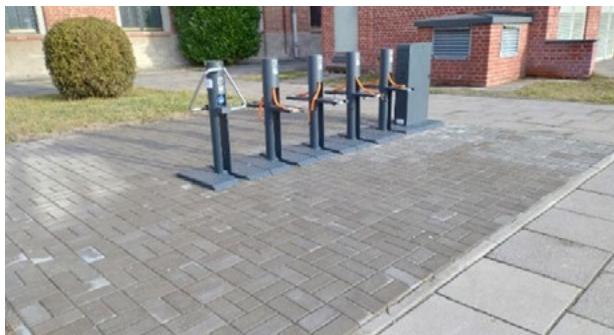
In 2024, the implementation of the second stage of the "Alchemium: Magic of Tomorrow's Chemistry" investment continued, for construction of a modern conference, teaching and laboratory building for the Faculty of Chemistry at Lodz University of Technology.

Other investments in 2024 included:

- continuation of the renovation of building B7 (Faculty of Civil Engineering, Architecture and Environmental Engineering), involving its adaptation to the requirements and regulations for fire protection of facilities, in order to increase the safety of building users;



- securing and rebuilding the building of the Sailing Club in Roganty will result in obtaining new storage space;
- construction of foundations for a charging station for electric scooters and bicycles, including power supply on campuses A and B;



- Welcome Point: a point for assisting foreigners arriving at Lodz University of Technology;
- reconstruction and adaptation to fire protection system, IV DS., including the installation of a new Voice Alarm System (VAS), Fire Alarm System (FAS), low-voltage FTTH installations, and electrical installations for emergency lighting;
- installation of bike racks with hardened paving stones in front of the A17 building (Bursary);



Refurbishment costs (in thousand PLN)



2023

6,746.14

2024

11,084.25

In 2024, a number of renovations were carried out at TUL, including:

- renovation of rooms in the A28 building (ZNP and NSZZ "Solidarity" rooms);
- renovation of the entrance from Wólczańska St. (campus B);
- stage II renovation of vertical and horizontal insulation with injection in the B2 building (Wozownia);
- renovation of the roof covering of the B25 building (Language Centre);
- building repairs of Lodz University of Technology Public Secondary School – changing rooms, toilets, floor waterproofing;
- renovation of the gym, corridor and bathrooms in building A4 (Faculty of Biotechnology and Food Sciences);
- renovation of the "Cis" holiday resort in Szklarska Poręba – bathrooms and public kitchen;



- installation of a photovoltaic system on the roof of buildings A4, A33, A28 and B28;
- connection to the district heating network with the construction of heat substations in buildings A13 and A17; renovation of central heating nodes in building B22.

IT

Computing and information services centre at TUL

ensuring the optimal functioning of all central IT services of TUL during the period of return to stationary work after the period of remote work, together with the development of the necessary new functionalities

developing the Microsoft365 suite of cloud services implemented in previous years with the inclusion of new services

modernization and maintenance of university-wide management support information systems (ZSID, DODARP, WIKAMP, EKSTAZJUSZ, NTN, etc.)

preparation for implementation of new services (new HR and payroll system TETA EDU, document circulation system EZD PUW, survey system SPHINX)

expansion of the LODMAN municipal computer network services and the university computer network infrastructure

Completed tasks within the TUL Computing & Information Services Centre activities:

remote working mechanism

- solutions implemented in 2021-2023, maintained and developed in 2024 allowed for effective remote or hybrid work of Lodz University of Technology and handling the constantly growing demand for IT services;

safety and reliability

- continued work on increasing the reliability of the infrastructure of services provided. As part of the co-financing from the Ministry of Science and Higher Education, work began on the replacement of the entire skeleton of the university network. The works included, among others, the purchase of boundary firewalls, further expansion of the optical network of the University Computer Network (USK). The work carried out in 2024 led to the optimization of the use of more network nodes;

server infrastructure

- in the area of computing clouds and data, the reorganization of storage space and implementation of the container environment (docker) continued, mainly for the needs of PLATON and MAN-HA computing clusters, but also new projects – including Digital Development Clubs, PRACE-LAB, lab PIONEER, National Data Warehouse (KMD),
- work continued on the BLUE OCEAN computing cluster for the purpose of classes with selected groups of TUL students,
- continued work on the integration of systems of various nodes towards a central IT security system,
- the comprehensive implementation of the M365 Defender system was continued,
- cooperation with the cybersecurity team of the PIONEER consortium was undertaken in order to develop mechanisms for a central, university SOC,
- in the structure of providing the LDAP service, work was carried out on the optimization and development of the rebuilt system in JAVA technology. The work performed allowed the system to be adapted to work with the new EZD PUW and TETA EDU systems,

- work has begun on multi-component authentication in all central TUL services,
- in order to relieve the key servers of priority services, the transfer of selected services of lesser importance to the server room in the CTI building continued. The server room was rebuilt, emergency power was brought in and equipment acquired from the National Data Warehouse project was installed;

data storage

- storage services were optimized for the new Microsoft M365 A5 cloud,
- STRYCH service was maintained to ensure storage of important local files by units critical to the University's operation,
- due to the intensive development of the group messaging service, the servers in the domain info.p.lodz.pl were hardware strengthened to ensure the smooth functioning of TUL announcements and Rector's Announcements, as well as support for several thousand discussion forums functioning in the subjects on the WIKAMP platform;

IT systems

- continued the implementation of the M365 package by implementing new functionalities, and in particular the new A5 license agreement allowing for better integration of cooperating systems: didactic management (ZSID), remote learning (WIKAMP and TEAMS platforms) and electronic document workflow (EZD PUW). M365 implementation works were co-financed from the ZPU1 project,
- pre-implementation analysis of the possibility of adapting the WIKAMP system to the needs of the USOS dean's office system was initiated,
- The Integrated Didactics Information System was adapted to the new statutory requirements, the new findings of the SID committee and changes in the POL-on data reporting system. Work continued on rebuilding this system toward full-service integration and creating a new multi-platform Integrated Teacher Terminal using SMS-based second factor authentication. The interface ensuring full transmission of assessments between ZSID and WIKAMP systems was modernized and expanded;

technical support

- as part of the work on the "Available Lodz University of Technology" project, the expansion of the central website system of all Lodz University of Technology units continued. This system, a multisite class, running on docker technology, allowed to unify the graphical presentation of the TUL main page and all faculties,
- as part of the introduction of new organizational structures, the WIKAMP platform services in THE field of Bok (customer service office) were rebuilt, dealing with handling all requests for central IT services,
- new functionalities were added and the central HelpDesk ticketing system, which had been improved by the E-Learning Centre for several years, was modernized;

expansion of information technology infrastructure of science

- work continued in the PRACE-LAB project, which aims to expand the IT infrastructure of science and launch specialized innovative HPC and Cloud Computing services on it for the purposes of scientific and R&D work by R&D and economic units,
- expansion of the MSK LODMAN network continued, as did the provision of services to entities and users from the R&D community, administration and economy of the Lodz region,
- implementation of the PIONIER-LAB project National Platform for Integration of Research Infrastructures with Innovation Ecosystems, which involves the construction of new, unique research laboratories and the use of the existing PIONIER national fibre optic network, continued.



REPORT ON THE ACTIVITIES OF LODZ UNIVERSITY OF TECHNOLOGY 2024



Lodz University
of Technology

