



# Sustainability Report

academic year 2024/2025





# CONTENT

Reporting methodology	2
<u>Introduction</u>	3
<u>Green Campus of Gdansk Tech</u>	4
<u>THE Impact, UI GreenMetric</u>	5
<u>QS Sustainability, Scopus</u>	6
 <u>No poverty</u>	7
 <u>Zero hunger</u>	8
 <u>Good health and well-being</u>	9
 <u>Quality education</u>	10
 <u>Gender equality</u>	12
 <u>Clean water and sanitation</u>	13
 <u>Affordable and clean energy</u>	14
 <u>Decent work and economic growth</u>	16
 <u>Industry, innovation and infrastructure</u>	17
 <u>Reduced inequality</u>	19
 <u>Sustainable cities and communities</u>	21
 <u>Responsible consumption and production</u>	22
 <u>Climate action</u>	24
 <u>Life below water</u>	25
 <u>Life on land</u>	26
 <u>Peace, justice and strong institutions</u>	27
 <u>Partnerships for the goals</u>	28
<u>Footnotes</u>	30
<u>Development</u>	31

# REPORTING METHODOLOGY

This report presents two types of data: quantitative and qualitative (case studies). The figures provided illustrate progress in research activities through publications affiliated with the University that contribute to the achievement of specific Sustainable Development Goals (SDGs). The data were prepared using the keywords developed as part of **Elsevier's 2025 SDG Mapping**. Publication data refer to the year **2024 (as of July 9, 2025)**. All indicators are updated annually.

The case studies described in this report represent only selected examples of the University's initiatives. Their aim is to showcase our commitment to advancing the Sustainable Development Goals. More initiatives and examples of our efforts in this area can be found at <https://pg.edu.pl/zrownowazony-rozwoj>.

We have ambitious plans for both the near and long-term future. We count on the active engagement of our students, staff, and the local community to make these goals a reality. We welcome all initiatives, ideas, reflections, and suggestions at [sdgs@pg.edu.pl](mailto:sdgs@pg.edu.pl).

The implementation of the United Nations Sustainable Development Goals (SDGs) has been integrated into the Development Strategy of Gdańsk University of Technology for 2020–2030. This report provides an overview of the University's activities across key areas of sustainable development. The data were collected at the end of **the 2024/2025 academic year** and cover selected projects and initiatives.

The activities described in the report are organized into four overarching areas:

- Research
- Public engagement and partnerships
- Education and student activities
- Internal university operations

Within this framework, the University's efforts have been analyzed. In some areas, we have not yet achieved measurable results; however, recognizing these gaps is important to us and will guide our future actions toward closing them.





**Prof. Dariusz Mikielewicz, PhD, DSc**  
**Vice-Rector for Research**

“  
 As a society, we should pursue sustainable development, while minimizing anthropogenic impact on the environment,  
**because the quality of the environment determines our well-being and health, and the welfare of future generations.**  
 ”

I am pleased to present the fifth edition of Gdańsk Tech’s Sustainable Development Report, which documents our ongoing efforts in this important area. This report highlights how research, innovation, and collaboration lay a solid foundation for our responsible growth — and how they create opportunities to develop modern solutions with a real positive impact on society.

Gdańsk Tech consistently develops research and innovation activities that address today’s global challenges. Advancing our own technologies is an essential contribution to societal progress and reflects the University’s deep commitment to social responsibility — a value Gdańsk Tech has firmly adhered to for years.

In this context, a particular importance should be attached to our research in the field of energy—from promoting energy efficiency, to energy analyses, to developing energy storage solutions and technologies for local utilities. The results of this research bring both local and global benefits. It is our duty to contribute to the reduction of carbon dioxide and other greenhouse gas emissions. As a society, we should pursue sustainable development, while minimizing anthropogenic impact on the environment, because the quality of the environment determines our well-being and health, and the welfare of future generations. Responsible actions are therefore the foundation of lasting and convincing change.

The report you now hold documents our activities during the 2024/2025 academic year — from ambitious research projects, to national and international partnerships, to cutting-edge technological solutions and numerous internal university initiatives.

I would like to invite you to survey the report and explore how science and innovation are shaping the future of Gdańsk Tech and contribute to sustainable development of a responsible society.





- 196  containers for waste segregation
- 3  e-waste collection stations
- 58  electric scooters
- 7  ecological vehicles
- 14  rainwater container
- 25  drinking water dispenser
- 5  photovoltaic installations
- 2  rain gardens
- 100  number of species trees and bushes

The Gdańsk University of Technology campus, located in the heart of Gdańsk, combines modern, eco-friendly buildings with historic architecture. Among the greenery are benches, picnic areas, an outdoor gym, and nearly one hundred species of trees and shrubs, making the campus a welcoming space for relaxation and social interaction.

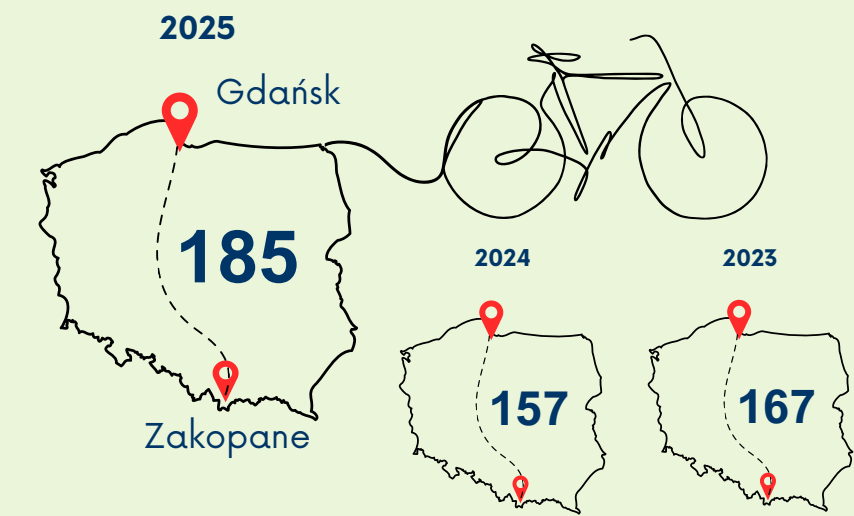
The construction of new facilities, such as the STOS Competence Center and the Eco-Innovation Center, as well as the revitalization of the historic Hydromechanics Building and the modernization of student dormitories, are carried out — whenever possible — in line with sustainable development standards.

The University's central location and the surrounding urban infrastructure support sustainable commuting to the campus, helping to reduce greenhouse gas emissions and the number of cars on site. One initiative promoting environmentally friendly commuting to Gdańsk Tech is the "By bike to the University" campaign, organized since 2022 during the spring and summer months for the University's staff, students, and doctoral candidates.



**The campaign "By bike to the University"**

Between 2023 and 2025, the kilometers traveled by employees, students, and doctoral candidates commuting to and from the University as part of the campaign helped avoid CO<sub>2</sub>e (carbon dioxide equivalent) emissions comparable to those that would be produced by driving the 700 km route from Gdańsk to Zakopane in a compact petrol car: 185 times in 2025, 157 times in 2024, and 167 times in 2023.



**CO<sub>2</sub>e emissions saved through commuting as part of the campaign.**

Year	Number of kilometers traveled	Amount of CO <sub>2</sub> e emissions avoided (kg)
2023	117 163,00	19 205,36
2024	110 007,00	18 032,35
2025	129 368,00	21 206,00

The amount of CO<sub>2</sub>e emissions avoided was calculated according to the GHG Protocol methodology. The calculation used the 2024 emission factor from the DEFRA database, which indicates that a compact petrol car emits an average of 0.16392 kg CO<sub>2</sub>e per kilometer traveled. Based on this factor, it was estimated how much emissions were avoided thanks to the campaign participants choosing to commute to the University by bicycle instead of by car, covering the same distance.





THE Impact is a prestigious international ranking that evaluates universities' commitment to achieving the United Nations Sustainable Development Goals. **In the THE Impact Rankings 2025 edition, Gdańsk University of Technology ranked within the 301-400 range worldwide (up from 401-600) and secured first place in Poland (up from second place).**

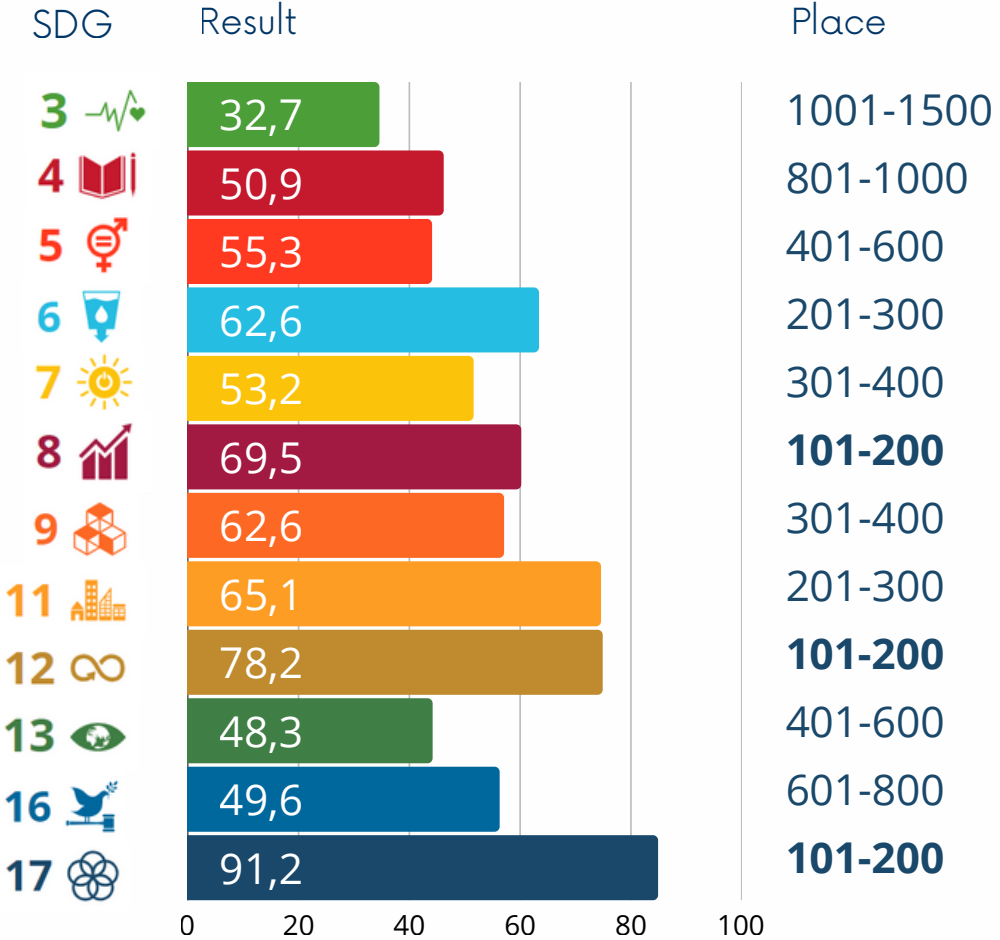
**Gdańsk University of Technology submitted data for 12 out of the 17 Sustainable Development Goals to the THE Impact ranking in the latest edition.**

Among Polish universities, Gdańsk University of Technology is the leader in five goals:

- Goal 6: Clean Water and Sanitation
- Goal 7: Affordable and Clean Energy
- Goal 8: Decent Work and Economic Growth
- Goal 12: Responsible Consumption and Production
- Goal 17: Partnerships for the Goals

**In the global ranking, Gdańsk University of Technology achieved a position within the 101-200 range for three goals:**

- Goal 8: Decent Work and Economic Growth
- Goal 12: Responsible Consumption and Production
- Goal 17: Partnerships for the Goals

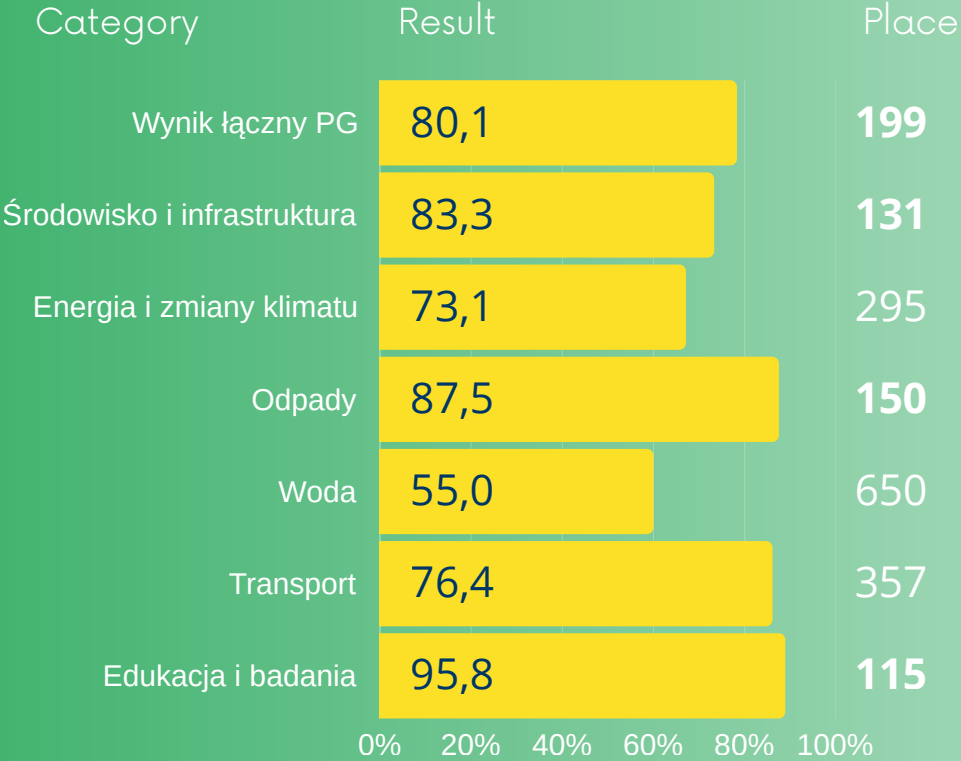


The THE Impact Rankings 2025 marks the 7th edition of the ranking. During this time, we have observed growing interest in it. **In 2019, 467 universities were ranked, whereas in 2025, the ranking includes 2,389 universities from 127 countries.** The full ranking is available on the official [ranking website](#).



**In the UI GreenMetric 2024 ranking, Gdańsk University of Technology ranked 1st in Poland and 199th worldwide, achieving over 80% of the total points.**

The UI GreenMetric ranking assesses universities' commitment to environmental issues, including infrastructure, transportation, water and electricity consumption, waste management, and climate and environmental care. Another important aspect for the organizers is the breadth of educational programs and research activities undertaken in the field of sustainable development.



Gdańsk University of Technology received its highest score in the "Education and Research" category, achieving 95.8% of the points. This indicates that the University is among the global leaders in educational and research activities related to sustainable development and environmental protection. PG also stood out in the "Waste" category, receiving 87.5% of the points (ranked 150th worldwide), and in the "Environment and Infrastructure" category, where it achieved 83.3% of the points (ranked 131st worldwide and 1st in Poland). Additionally, PG achieved the best result in Poland in the "Transport" category.

[Full classification of the ranking is available on the ranking website.](#)

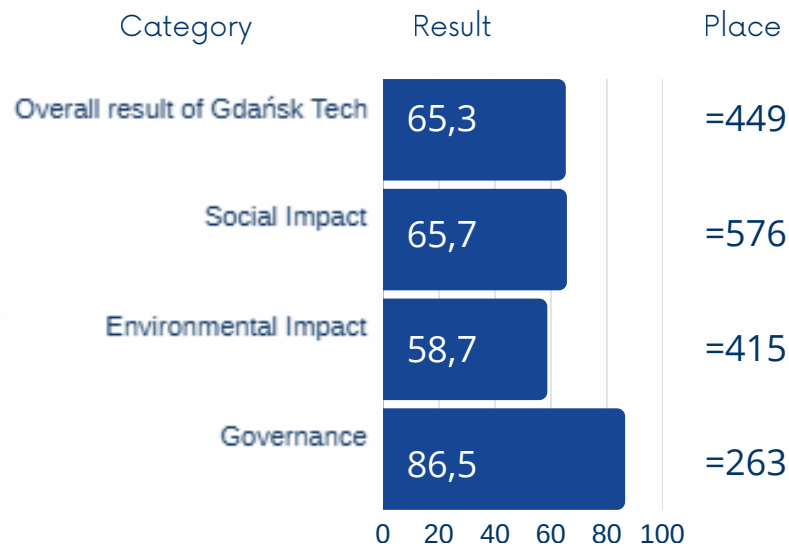




The third edition of the ranking focused on evaluating universities in three areas: social and environmental impact and governance, recognizing these as important for assessing universities' efforts to address the most pressing global challenges and to promote more sustainable production and consumption. **Gdańsk University of Technology received its highest score in the governance category, ranking 263rd.**

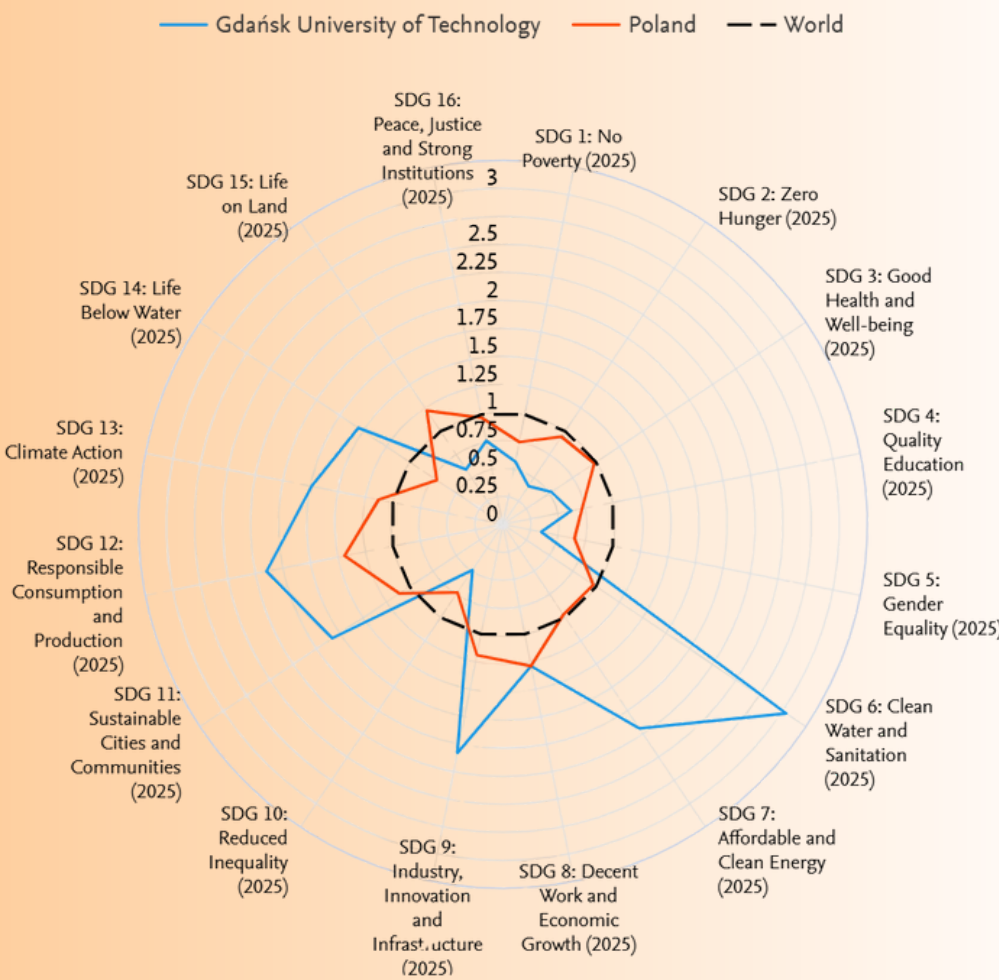


The **QS Sustainability** ranking evaluates universities based on their commitment to and achievements in advancing the Sustainable Development Goals. **In the 2025 edition**, Gdańsk University of Technology **ranked 4th among Polish universities**, behind the University of Warsaw, Jagiellonian University, and the University of Gdańsk. **Gdańsk University of Technology was ranked 190th among European universities and 424th worldwide.**



The **QS Sustainability 2025** ranking included **1,743 universities worldwide**, including **556 from Europe** and **22 from Poland**. Participation in the ranking is limited to selected universities with significant academic achievements. The full ranking is available on the official [ranking website](#).

Gdańsk Tech's publishing activity within SDG



The **Relative Activity Index (RAI)** is defined as the share of an institution's scientific output in a given SDG relative to the global share of scientific output in the same SDG.

A value of 1.0 indicates that the institution's research activity in a given field matches the global activity in that field; a value greater than 1.0 indicates a stronger emphasis; and a value less than 1.0 suggests a lower emphasis.

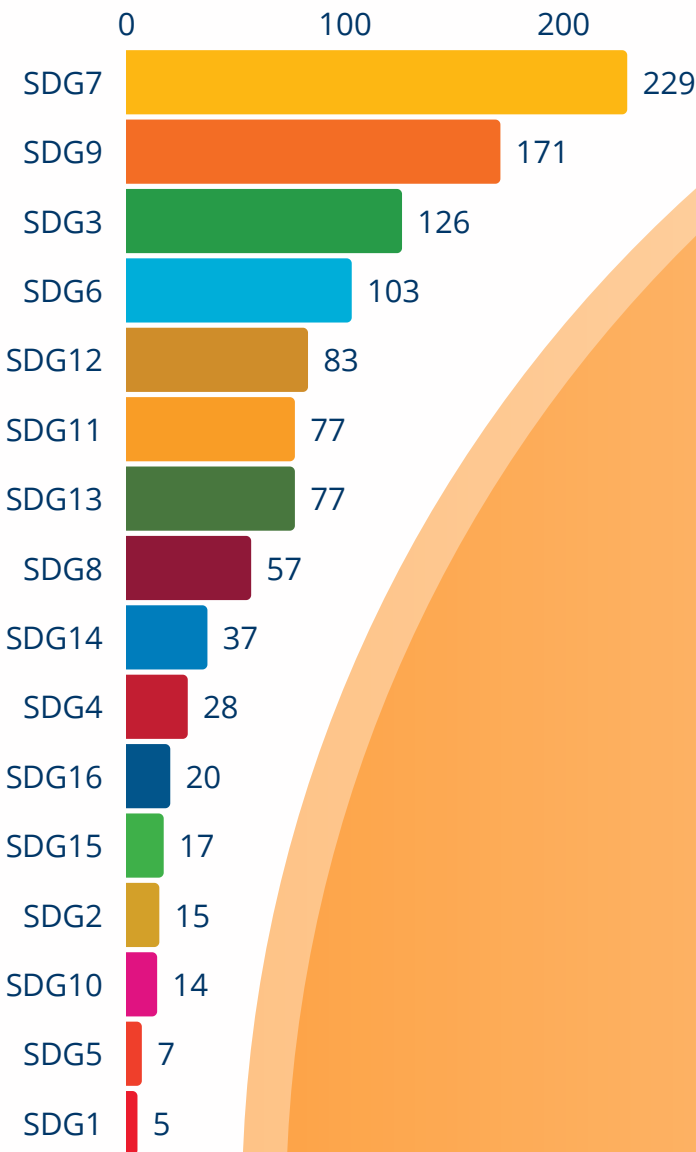
**Gdańsk University of Technology achieved its highest RAI value of 3.04 (for the years 2022–2024) in SDG 6 – Clean Water and Sanitation.**

For detailed data on Gdańsk Tech's publishing activity, please visit the [SciVal website](#).



In 2024, Gdańsk University of Technology recorded **its highest publishing activity in SDG 7 – Affordable and Clean Energy (229 publications).**

**The total number of publications attributed to the SDGs was 689**, representing 40.2% of all publications produced at PG that year (1,708 publications).





# End poverty in all its forms everywhere



5 0,46 1,8% 60,0% -



Scholarly Output



Field-Weighted Citation Impact (FWCI)



Share of Gdańsk Tech Publications in Poland



International Collaboration



Output in Top 10% Citation Percentiles

## RESEARCH AND PROJECTS

### RELATIVE AND SUBJECTIVE POVERTY

In the article „Inequality, poverty, and child benefits: evidence from a natural experiment”, researchers from the Faculty of Management and Economics at Gdańsk Tech analyzed the impact of the “Family 500+” program on income inequality and relative and subjective child poverty in Poland, using data from the Luxembourg Income Study and Statistics Poland. The study examined changes in various inequality and poverty indicators and their decomposition. All distributional analyses suggest that the observed reduction in income inequality and poverty are among the outcomes of the 500+ program.

## PUBLIC ENGAGEMENT AND PARTNERSHIP

### NOBLE GIFT

For the third time, employees of Gdańsk Tech joined forces to support families in need from the Pomeranian region as part of the nationwide Noble Gift campaign (Szlachetna Paczka). Among the key items donated to the families supported in 2024 were a washer-dryer, an oxygen concentrator, children’s bedding, and food supplies.



## EDUCATION AND STUDENT ACTIVITY

### ECONOMIC EDUCATION

Students of the Faculty of Management and Economics gain knowledge in finance, entrepreneurship, and the labor market through core courses such as Financial Accounting, Financial Management, and Public Finance, as well as electives including State and Household Budgets and Labor Market Analysis. Understanding concepts such as investment, economies, inflation, and professional activity is essential for analyzing challenges related to poverty and social inequality.

### CHARITY LOTTERY

Each year during the holiday season, the Student Council of the Faculty of Electronics, Telecommunications and Informatics organizes the „Holiday Raffle” — a charity initiative that raises funds for good causes, particularly for the Father E. Dutkiewicz Hospice in Gdańsk.



## INTERNAL ACTIVITIES OF THE UNIVERSITY

### SCHOLARSHIP PROGRAMS

At Gdańsk Tech, both full-time and part-time students can apply for various scholarships, including need-based scholarships, scholarships for students with disabilities, rector’s scholarships for academic excellence, and emergency grants — all funded through the University Scholarship Fund. In the 2024/2025 academic year, the university awarded 603 need-based scholarships, 1256 rector’s scholarships, 276 scholarships for students with disabilities, and 254 emergency grants. These forms of financial aid provide meaningful support, enabling students to pursue their education and academic growth regardless of their personal or financial circumstances.

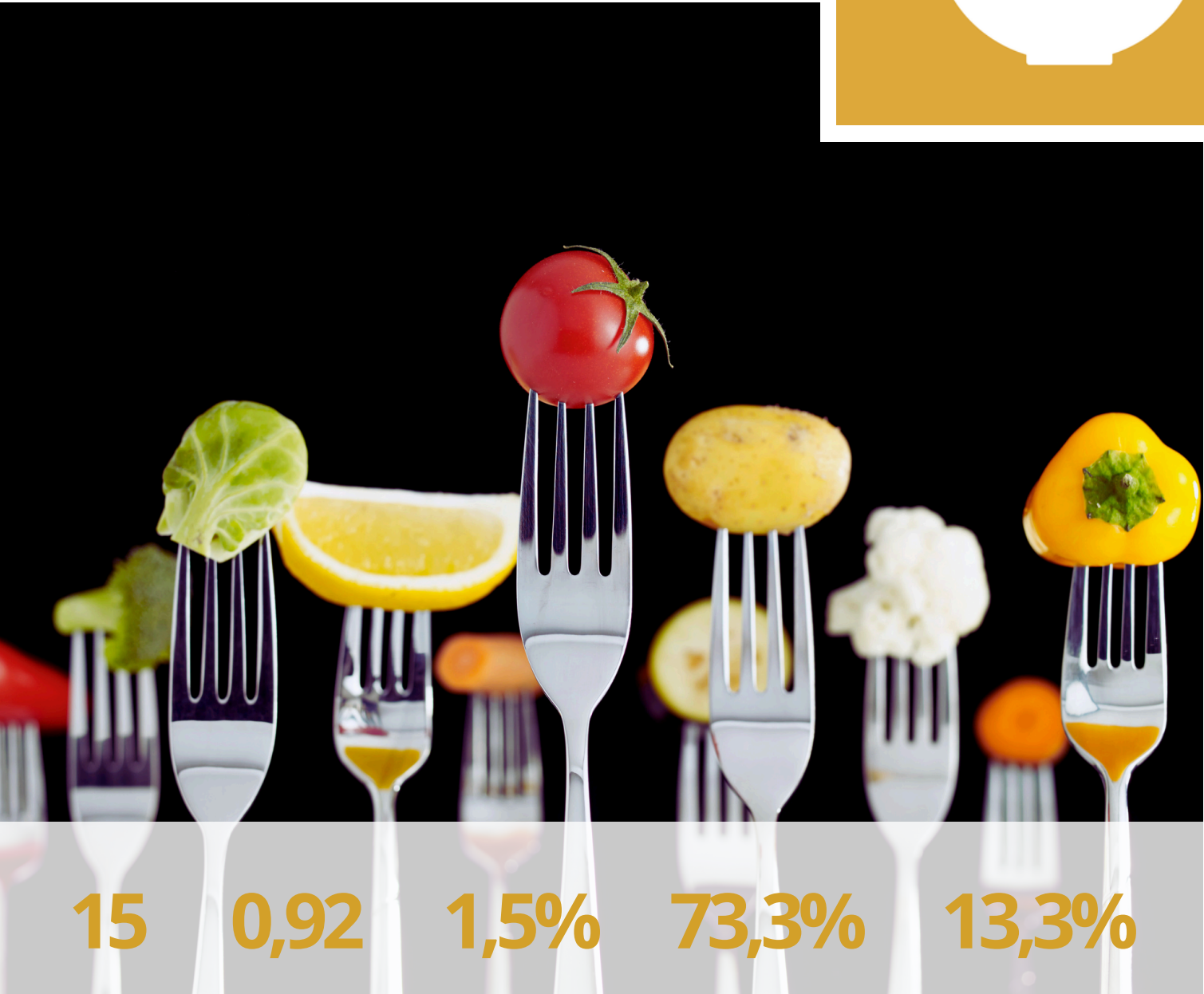
### SOCIAL BENEFITS

Gdańsk Tech employees have access to a range of social benefits, including one-time non-repayable financial assistance granted in cases of hardship or the death of a family member. In addition, employees may apply for interest-free loans for housing or home renovation purposes. All benefits are awarded upon the employee’s request.





End hunger, achieve food security and improved nutrition and promote sustainable agriculture



Scholarly Output



Field-Weighted Citation Impact (FWCI)



Share of Gdańsk Tech Publications in Poland



international Collaboration

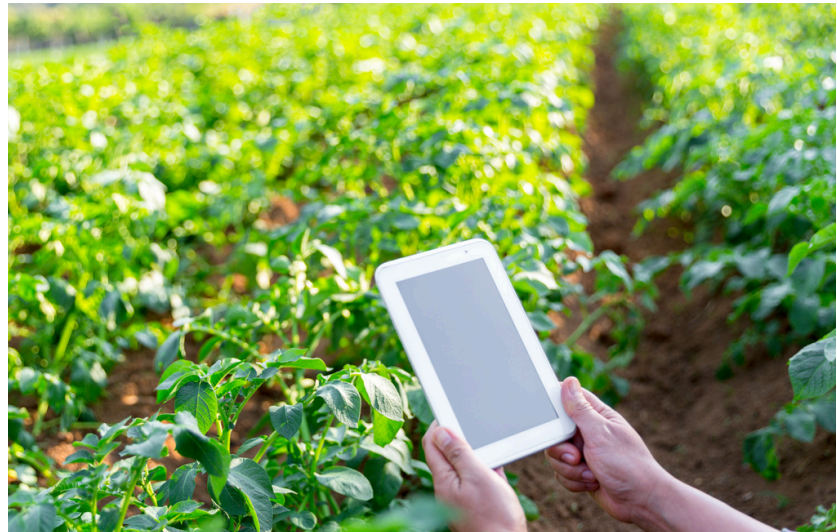


Output in Top 10% Citation Percentile

RESEARCH AND PROJECTS

IoT-BASED CROP PROTECTION SYSTEM

Agriculture worldwide is rapidly moving toward precision farming, leveraging artificial intelligence and the Internet of Things (IoT) to boost productivity and better protect crops. In the article “IoT-Based Intelligent Pest Management System for Precision Agriculture”, researchers including those from Gdańsk Tech describe an intelligent insect trap equipped with an IoT system for pest detection and field condition monitoring. The prototype, featuring an embedded computing system, uses a neural network to accurately identify flies—pests that can cause significant crop losses.



EDUCATION AND STUDENT ACTIVITY

COURSES

Students in the Biotechnology program, with specializations in Food Technology, Biotechnology, and Analysis at the Faculty of Chemistry, Gdańsk University of Technology, gain knowledge in food safety and quality through courses such as Food Chemistry, Instrumental Techniques in Food Analysis, Quality Management in the Food and Pharmaceutical Industries, and Food Technology Processes.

PUBLIC ENGAGEMENT AND PARTNERSHIP

FUNCTIONAL FOOD CERTIFICATION SYSTEM

“F-FOOD” is an innovative certification system for functional foods—products that offer health benefits and high nutritional value. It is the first initiative of its kind in both Poland and Europe.

Gdańsk Tech plays a key role in the project, collaborating with six scientific institutions across Poland. The project aims to improve the quality of food available on the market, promote healthy lifestyles, and advance personalized nutrition.



INTERNAL ACTIVITIES OF THE UNIVERSITY

A WAY TO REDUCE FOOD WASTE

During breaks from classes or work at Gdańsk University of Technology, it’s easy to enjoy a tasty and nutritious meal at campus dining spots or nearby eateries. Some of these venues offer unsold portions at discounted prices through dedicated mobile apps, helping to minimize food waste.





# Ensure healthy lives and promote well-being for all at all ages

3

GOOD HEALTH AND WELL-BEING





126

1,37

1,3%

68,3%

24,6%



Scholarly Output



Field-Weighted Citation Impact (FWCI)



Share of Gdańsk Tech Publications in Poland



International Collaboration



Output in Top 10% Citation Percentile

## RESEARCH AND PROJECTS

### REDUCING THE RISK OF DRUG RESISTANCE

Resistance to multiple drugs poses a major obstacle to effective cancer treatment. Research by scientists from the Faculty of Chemistry at Gdańsk University of Technology, published in „Unsymmetrical Bisacridines’ Interactions with ABC Transporters and Their Cellular Impact on Colon LS 174T and Prostate DU 145 Cancer Cells”, suggests that treatment with unsymmetrical bisacridines may help reduce drug resistance, highlighting their potential for further investigation in colorectal and prostate cancer therapy.

### IMPAQT PROJECT

The IMPAQT project, carried out at the Faculty of Civil and Environmental Engineering at Gdańsk University of Technology, aims to improve policies supporting physical activity, with a focus on ensuring equal access to health for all social groups. Using the PA-EPI tool, researchers will assess how government measures in six European countries, including Poland, align with best practices for promoting physical activity and creating healthy environments. The goal is to reduce inequalities in access to sports facilities, green spaces, and cycling routes, especially in light of challenges highlighted during the COVID-19 pandemic.



## PUBLIC ENGAGEMENT AND PARTNERSHIP

### E. COLI DETECTION PLATFORM

Researchers from Gdańsk Tech and the Karlsruhe Institute in Germany, as part of the AMBITa project, are developing an affordable, precise, and 3D-printable test for detecting E. coli bacteria, which are responsible for, among other things, urinary tract infections. The project aims to create a diagnostic platform

based on printed carbon materials. The system is designed to minimize false results, be compact, and resemble the test strips used in glucose meters.

## EDUCATION AND STUDENT ACTIVITY

### ABC TALENT FORGE

The project „Developing skills and competences of student research project members” by the Student Research Club „Materials in Medicine” focuses on developing students engaged in research on innovative biomedical materials, including a new bone cement in the PLUTONIUM project. Participants take part in advanced training designed to enhance their technical and scientific skills and enable them to present their research results at international competitions.

## INTERNAL ACTIVITIES OF THE UNIVERSITY

### CONSULTATIONS AT THE PSYCHOLOGICAL SUPPORT CENTER

Students and doctoral candidates at Gdańsk Tech can access free psychological and psychotherapeutic support. Psychological consultations are one-on-one sessions with a qualified specialist who can help you understand your challenges and emotions, as well as provide guidance on coping with stress, anxiety, or low motivation.



### SPORTS ACTIVITIES

Staff at Gdańsk Tech can join a variety of sports and fitness activities through the Academic Sports Center after work. Options include basketball, swimming, Nordic walking, table tennis, mobility training, as well as karate and dance classes.







Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all



28 1,64 3,6% 57,1% 10,7%



Scholarly Output



Field-Weighted Citation Impact (FWCI)



Share of Gdańsk Tech Publications in Poland



International Collaboration



Output in Top 10% Citation Percentiles

## RESEARCH AND PROJECTS

### UNIVERSITIES OF THE FUTURE

„Universities of the Future” is an innovative project aimed at creating a personalized education system for students.

It is being carried out by 12 universities including Gdańsk Tech, in collaboration with the National Centre for Research and Development. By following an individualized learning path, students will develop key future-ready skills, including problem-solving, critical thinking, creativity, communication, and teamwork.



## PUBLIC ENGAGEMENT AND PARTNERSHIP

### SDG AMONG KRASP PRIORITIES

The Presidium of the Conference of Rectors of Academic Schools in Poland (KRASP) has identified priority areas for the 2024–2028 term. Twenty-two key topics were highlighted and grouped into four main categories: the academic environment, higher education, internationalization, and social engagement. Among the most important issues in the social engagement category are promoting the Sustainable Development Goals and strengthening collaboration with the socio-economic sector.

### TALENTED FROM POMERANIA

Gdańsk Tech is running the project „Talented from Pomerania – Gdańsk University of Technology”, which aims to develop the skills of gifted students from the Pomeranian region in science and natural sciences. The project, targeting 900 primary and secondary school students, includes academic workshops, olympiad clubs, e-learning courses, and one-on-one mentoring.



Zdolni z Pomorza.pl

## EDUCATION AND STUDENT ACTIVITY

### PERSPEKTYWY RANKING

Gdańsk Tech ranked 3rd among technical universities and 5th overall in the Perspektywy 2025 Higher Education Ranking.

The university received the maximum score (100/100) for its doctoral education indicator, reflecting the high quality and effectiveness of this area. This result highlights Gdańsk Tech's strong research potential and confirms that studying at its Doctoral School is a smart investment in academic development.

### BALTIC SCIENCE FESTIVAL

Can a material break, a frisbee fly, or brainwaves affect the world? These and many other questions were explored during the 22nd Baltic Science Festival, held at Gdańsk Tech in May 2025. The festival featured nearly 160 events across 40 fields of science. The highlight was the Sunday Fahrenheit Science Picnic at Hevelianum, with dozens of stands, demonstrations, workshops, and activities for children, teenagers, and adults. The event promotes broad access to high-quality education and fosters interest in science and technology across all age groups.



## INTERNAL ACTIVITIES OF THE UNIVERSITY

### UNIVERSITY OF TALENTS

University of Talents is a recurring event for students from leading high schools and technical schools in the Pomeranian region. Participants take part in scientific workshops, hands-on lab sessions, and themed panels in areas such as computer science, ecology, architecture, and economics. The program also includes team-building and sports activities, as well as workshops for teachers, supporting the development of the skills and passions of gifted young people.



ECONOMICS UNIVERSITY FOR CHILDREN

Students in grades 4–6 had the opportunity to take part in a series of free classes offered by the Economics University for Children at the Faculty of Management and Economics from March to May 2025. During the classes, children learned about topics such as investing, innovation, and making purchasing decisions.



MAPPING PUBLICATIONS TO THE SDGs

Thanks to tools developed by Elsevier, Gdańsk Tech researchers can more easily track progress toward the Sustainable Development Goals (SDGs). An updated list of keywords linked to all 17 goals, available on the Gdańsk Tech website, helps increase the visibility of Gdańsk Tech researchers’ work. Linking publications to the SDGs not only allows researchers to receive additional bonuses but also strengthens the university’s position in international rankings, such as THE Impact and the QS Sustainability Ranking. Mapping publications to the SDGs supports one of the detailed objectives of Goal 4, which involves promoting the UN Goals by sharing knowledge and best practices related to education for sustainable development.



ACCREDITATIONS HELD

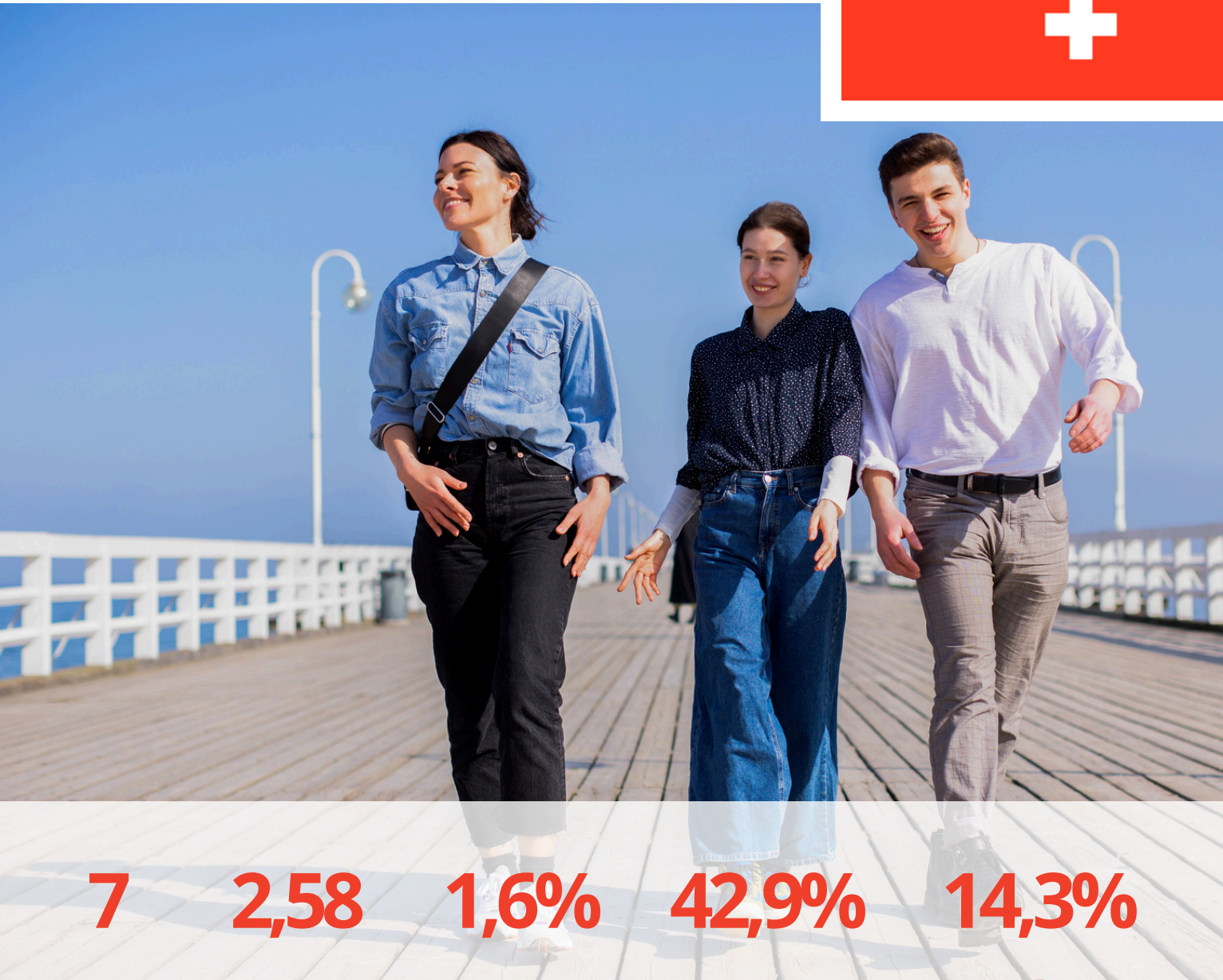
The following accreditations attest to the high quality of education:

- Polish Accreditation Committee (PKA)
- Accreditation Commission of Universities of Technology (KAUT)
- European University Association (EUA)
- Association of Masters In Business Administration (AMBA)
- European Chemistry Thematic Network(ECTN)
- CEEMAN International Quality Accreditation
- Accreditation Council for Entrepreneurial and Engaged Universities (ACEEU)





# Achieve gender equality and empower all women and girls



7 2,58 1,6% 42,9% 14,3%



Scholarly Output



Field-Weighted Citation Impact (FWCI)



Share of Gdańsk Tech Publications in Poland



International Collaboration



Output in Top 10% Citation Percentiles

## RESEARCH AND PROJECTS

### ERRORS UNDER THE MICROSCOPE

Research by female scholars at the Faculty of Management and Economics reveals a phenomenon of double bias toward errors—a gap between openness to failure and actual responses to it. The study shows that attitudes toward mistakes vary by gender and position: women, especially in leadership roles, are more likely to see errors as opportunities for growth, while men tend to conceal them.

### PUBLIC ENGAGEMENT AND PARTNERSHIP

#### WOMEN’S CLUB

The Fahrenheit Women’s Club, which brings together female researchers and staff from three leading universities in Gdańsk, continued its mission in the 2024/2025 academic year to support women in science and professional development. The club organized workshops, networking events, and educational activities. It also launched an Academic Mentoring program, providing guidance from experienced researchers on career development, promotion applications, publication strategies, grant acquisition, and improving research project proposals.



### GDAŃSK TECH ON THE POMERANIAN COUNCIL FOR WOMEN’S AFFAIRS

A researcher from the Faculty of Management and Economics has been appointed for the second time to the Pomeranian Council for Women’s Affairs — an advisory and consultative body to the Pomeranian Regional Government. The Council’s main goal is to promote equality and prevent social exclusion. It brings together representatives of academic, local government, and social

institutions, focusing on improving women’s professional and economic situation, monitoring equality practices, and cooperating with national and international organizations.

## EDUCATION AND STUDENT ACTIVITY

### GIRLS DO ENGINEERING AT GDAŃSK TECH

Gdańsk Tech regularly hosts female students from Tricity schools as part of the Girls Do Engineering initiative, organized by an international technology company and the Digital Dialogue Association, under the honorary patronage of the Mayors of Gdańsk, Gdynia, and Sopot. The program aims to inspire girls to pursue careers in the technology sector.

## INTERNAL ACTIVITIES OF THE UNIVERSITY

### GENDER EQUALITY PLAN

In 2025, Gdańsk Tech published its Gender Equality Plan entitled „Equality and Diversity Plan Gdańsk Tech 2025 – 2028”, continuing the university’s efforts in promoting gender equality that began in 2021. The plan outlines actions aimed at ensuring equal opportunities in the workplace, education, and research environments—where everyone, regardless of gender, can thrive and develop.

### “WOMEN IN SCIENCE” EXHIBITION

In the autumn of 2024, an exceptional outdoor exhibition was displayed in front of the Main Building, showcasing twelve contemporary Gdańsk-based female scientists whose work contributes to making the world a better place. Among them was a researcher from the Faculty of Applied Physics and Mathematics at Gdańsk Tech.





Ensure availability and sustainable management of water and sanitation for all



103 1,8 8,3% 67% 36,9%



Scholarly Output



Field-Weighted Citation Impact (FWCI)



Share of Gdańsk Tech Publications in Poland



International Collaboration



Output in Top 10% Citation Percentiles

6 CLEAN WATER AND SANITATION



RESEARCH AND PROJECTS

REDUCING PLASTIC IN STREAMS

The project "Study of the transport mechanism of macroplastic waste in vegetated streams", carried out by the Faculty of Civil and Environmental Engineering in collaboration with the Institute of Geophysics and the Institute of Hydroengineering of the Polish Academy of Sciences, aims to identify the pathways along which plastic waste moves through small, vegetation-covered watercourses and to develop methods for preventing its further transport to seas and oceans.



PUBLIC ENGAGEMENT AND PARTNERSHIP

WATER SCIENCE AND MANAGEMENT COMMITTEE

The Presidium of the Polish Academy of Sciences has established the Water Science and Management Committee to provide expert support in flood prevention and mitigation. The committee comprises 34 specialists from various fields, including two researchers from the Faculty of Civil and Environmental Engineering at Gdańsk University of Technology. It will develop interdisciplinary recommendations and research programs focused on strengthening Poland's water security.

EDUCATION AND STUDENT ACTIVITY

HYDROTECHNICS – POSTGRADUATE STUDIES

The rapid growth of water transport and renewable energy has created significant development opportunities in marine and inland hydrotechnics as well as the offshore sector. In response to the increasing demand for specialists, Gdańsk Tech has launched postgraduate studies in hydrotechnics, covering a wide range of topics related to the design, construction, and management of hydrotechnical projects. The program combines theory with practice,

drawing on real-world examples from projects led by the academic teachers.

SAVE WATER – MADAGASCAR

The event "Save water – Madagascar 2024", organized by the MiS Student Research Club, took place in December 2024 to support an initiative improving hygiene at Ecolé Privé Daniel in Mampikony, Madagascar. This was the second event in the series. During the charity fair, students sold handmade crafts and baked goods, and the proceeds were donated to the Madagascar Foundation to purchase hygiene supplies, including soap and hand sanitizers.



INTERNAL ACTIVITIES OF THE UNIVERSITY

DRINKING WATER STATIONS

New drinking water stations have been installed on the Gdańsk Tech campus, in the Żelbet Building and at the Faculty of Management and Economics. The installation in the Żelbet Building was funded through the university's Participatory Budget. The wall-mounted stations provide convenient and hygienic access to drinking water while helping reduce plastic waste by encouraging the use of reusable bottles. There are now a total of 20 such stations across the campus.

CONSCIOUS WATER USE

As part of Gdańsk Tech's Climate Plan, a series of updates has been published on topics such as responsible water use and encouraging the consumption of tap water on campus. The water at Gdańsk Tech comes from the Czarny Dwór deep-water intake in Gdańsk, and its mineral content classifies it as low-mineral water.



Ensure access to affordable, reliable, sustainable and modern energy for all

7 AFFORDABLE AND CLEAN ENERGY



229 1,52 6,8% 61,1% 30,1%



Scholarly Output



Field-Weighted Citation Impact (FWCI)



Share of Gdańsk Tech Publications in Poland



International Collaboration



Output in Top 10% Citation Percentiles

RESEARCH AND PROJECTS

DIGIWIND

Gdańsk Tech is a partner in the international DIGIWIND project, which aims to support Europe’s digital and green transformation through interdisciplinary STEM education programs, with a particular focus on wind and energy systems. As part of the project, Gdańsk Tech is developing new educational offerings, including a master’s program in „Smart Renewable Energy Engineering” and modular learning paths covering postgraduate studies and lifelong learning programs.



POLYURETHANES FOR HEAT STORAGE

As part of the project “Research on the use and processing of phase change materials (PCM) in polyurethane systems,” researchers are developing new polyurethane materials capable of storing thermal energy. The solutions created could be used in heating, cooling, and insulation systems, and also support the development of renewable energy technologies.

AFFORDABLE, GREEN HYDROGEN

The research team from the Faculty of Chemistry at Gdańsk Tech and Nicolaus Copernicus University in Toruń is working to find more efficient and affordable ways to produce green hydrogen. The scientists are developing innovative catalysts using metal nitrides and graphene that could replace expensive and scarce elements such as platinum and iridium. The project aims to create a stable, bifunctional catalyst that will improve the efficiency of water electrolysis and make hydrogen production more accessible and sustainable.

PUBLIC ENGAGEMENT AND PARTNERSHIP

GDAŃSK TECH IN THE SOLAR HEATING AND COOLING PROGRAM

The Ministry of Climate and Environment has designated Gdańsk Tech as a partner in the Solar Heating and Cooling (SHC) Technology Collaboration Program under the International Energy Agency (IEA). Participation in the program opens up broad opportunities for international collaboration among Polish researchers, research institutions, and companies. This prestigious initiative represents another step for Gdańsk Tech toward taking an active role in the global energy transition.

MODERNIZING ENERGY INFRASTRUCTURE

Gdańsk University of Technology, in collaboration with Orlen Projekt, has developed innovative designs for high-voltage transmission towers that are lighter, more cost-effective, and environmentally friendly due to reduced steel use. One type of tower allows integration with telecommunications systems, enabling simultaneous energy distribution and communication services. The project has the potential to significantly impact the modernization of Poland’s energy infrastructure.

COLLABORATION WITH HIGH SCHOOLS

Twelve projects promoting Gdańsk Tech among secondary school students received funding through the URANIUM Supporting Cooperation with High Schools program. One of the highlighted initiatives was the project “A Future Powered by Photovoltaics”, carried out in collaboration with two high schools in Olsztyn. The project included laboratory sessions and a series of lectures on PV installations, lightning protection, and electrical energy parameters.

HYDROGEN ACADEMY

Gdańsk Tech partnered with Orlen to host the third edition of the Hydrogen Academy, serving as a subject-matter partner. In 2025, 30 students and graduates from several Polish technical universities and the University of Warwick in the UK participated. The program aims to develop knowledge and skills in hydrogen technologies.



EDUCATION AND STUDENT ACTIVITY

ENERGY ENGINEERING

Energy Engineering is an interdisciplinary program that prepares students to design and operate modern, sustainable energy systems. The program offers three specializations, launched depending on student demand: Smart Energy Systems, Eco-Friendly Technologies in Heating, Ventilation, and Air Conditioning, and Energy Technologies.





## RELEASE THE ENERGY CONFERENCE

Students from universities across the Tricity region took part in the „Release the Energy” conference at Gdańsk University of Technology. The event focused on energy, the green transition, and sustainable technologies. Young presenters shared innovative ideas, research, and projects. The top presentations and posters were recognized with awards, and the event served as a platform for students from different disciplines and universities to connect and exchange experiences.

## SOLAR

Students from the student club KSTO Korab won second place at the Sardinia Innovative Boat Week, showcasing „Solar” — a solar-powered hydrofoil boat equipped with seven solar panels. The hydrofoil technology allows the boat to lift above the water, reducing drag and improving efficiency



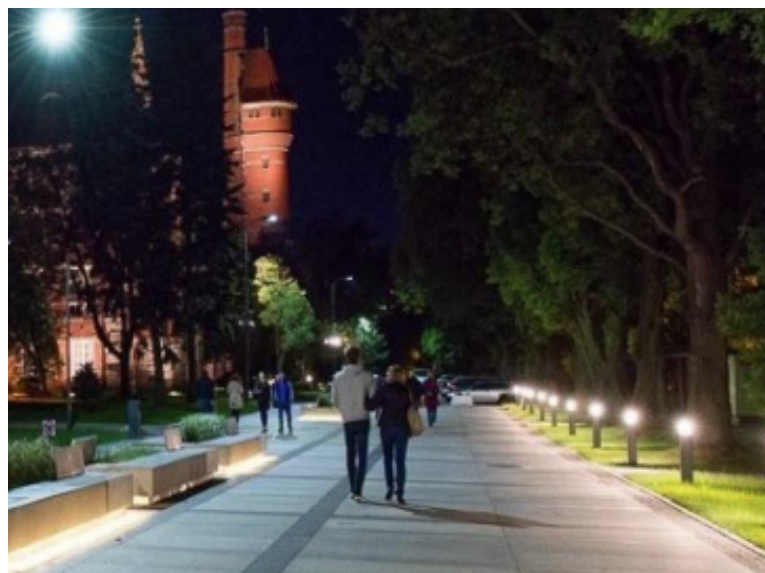
## INTERNAL ACTIVITIES OF THE UNIVERSITY

### ECO-INNOVATION CENTER BUILDING

The Eco-Innovation Center at Gdańsk University of Technology, opened in 2024, is a modern, energy-efficient facility designed with sustainability and environmental friendliness in mind. It incorporates solar panels, ground-source heat pumps, heat recovery from ventilation and server rooms, greywater recycling, and a green roof. Smart controls for lighting, heating, and ventilation optimize energy use while enhancing comfort for users.

### „KSIAŻKA W TEMACIE”

The monograph „Energy and environmental protection”, authored by the team from the Department of Energy Conversion and Storage at the Faculty of Chemistry, Gdańsk Tech, was recognized in the „KSIAŻKA W TEMacie” competition at the 2nd Distributed Energy Congress in Kraków. Published by PWN Scientific Publishers, it provides a thorough overview of sustainable development, renewable energy, energy storage, and life cycle analysis.



Smart campus lighting – a lighting fixture equipped with LED diodes, operating within a system that allows smooth control from a computer.



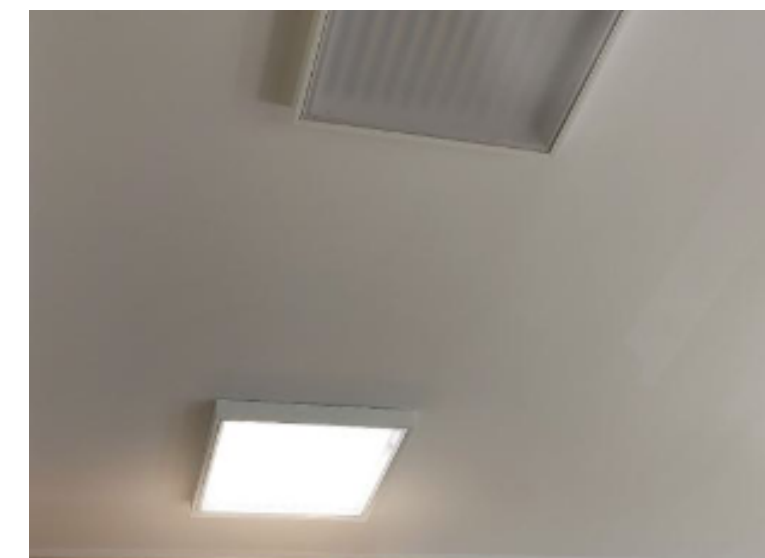
Photovoltaic installation on the roof of the Gdańsk Tech Eco-Innovation Centre.



Lighting control in the bathroom using presence sensors.



Teaching rooms fully illuminated with natural daylight.

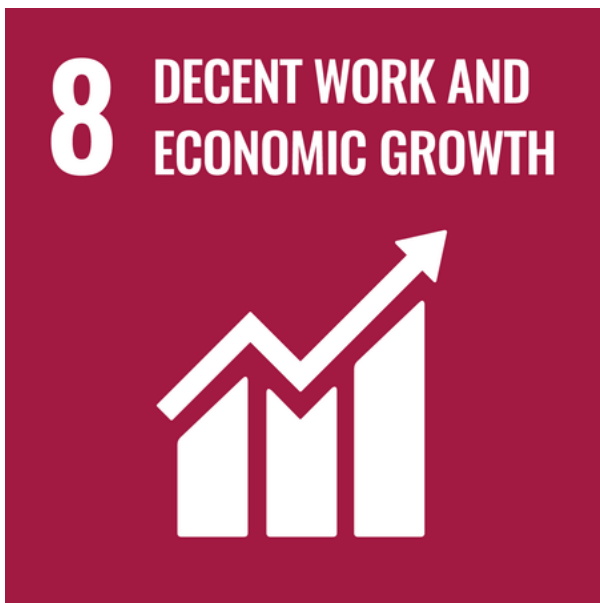


Energy-efficient office lighting.

**Selected sustainable energy solutions implemented on the Gdańsk Tech campus.**



# Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all



Scholarly Output



Field-Weighted Citation Impact (FWCI)



Share of Gdańsk Tech Publications in Poland



International Collaboration



Output in Top 10% Citation Percentiles

## RESEARCH AND PROJECTS

### NEWCOMERS@WORK

The project, coordinated by the Faculty of Management and Economics with the participation of international partners, aims to support young refugees and migrants from the NEET group (not in employment, education, or training) and help them integrate quickly into the labor market. Support is provided through mentoring and internships with local employers, training for professionals working with youth, and the development of participants' skills.



### CRISIS MANAGEMENT

In the article „Hospitality Human Capital process model in crisis management: Managing human capital and revealing employees' hidden capabilities”, researchers from the Faculty of Management and Economics analyzed how human capital management affected the resilience of restaurants during the COVID-19 pandemic. Based on interviews with restaurant owners and managers from the Tricity area, the study showed that open communication, flexibility, and employee engagement supported both crisis survival and the development of innovative solutions.

## PUBLIC ENGAGEMENT AND PARTNERSHIP

### AI FOR PUBLIC SERVICES

The international project AICOSERV, led by Gdańsk University of Technology, aims to develop an innovative, interdisciplinary master's program combining expertise in AI, co-creation of public services, and data management. The project addresses the growing need to educate specialists capable of implementing sustainable and inclusive solutions in the public sector, with a particular focus on vulnerable groups.

## EDUCATION AND STUDENT ACTIVITY

### BUSINESS ANALYTICS

Business Analytics is a program at the Faculty of Management and Economics that combines economics and finance with modern data analysis tools. Students learn how to use technologies such as Python and Power BI to analyze economic data and make informed decisions based on their findings.

### NEW STUDENT RESEARCH CLUB

The Design Thinking Student Research Club at Gdańsk Tech provides a space for students to develop skills valuable in both personal and professional life, such as creativity and teamwork. The club organizes workshops, hackathons, social and environmental projects, and collaborates with external partners. Members develop soft skills, learn to solve complex problems, and gain access to professional networks and prestigious industry events through their involvement in club activities.

### WORK TIME TRACKING SYSTEM

The student team eGodziny, representing Gdańsk Tech in the prestigious Stage Two competition in Berlin, received a distinction in the HR Tech category. Their project is an innovative system for tracking the working hours of manual labor employees, combining a mobile app, an analytics platform, and an AI component.



## INTERNAL ACTIVITIES OF THE UNIVERSITY

### STAFF DEVELOPMENT ACADEMY

In the 2024/2025 academic year, Gdańsk Tech launched the Staff Development Academy to support the professional and personal growth of university staff. The program offers five main tracks: teaching, research, organizational, leadership, and implementation & social engagement. Coordinated by the HR Center, it includes a variety of training sessions and allows for individualized career path planning.

### YOUNG RESEARCHERS FORUM

In June 2025, Gdańsk Tech hosted the second edition of the Young Researchers Forum, a platform for discussing barriers and challenges in scientific careers. Organized by Gdańsk Tech's Office and Young Researchers Team, the event presented the results of a survey conducted among early-career researchers at Gdańsk Tech and included a panel debate with invited guests, followed by an audience discussion.



Build resilient infrastructure,  
promote inclusive and  
sustainable industrialization  
and foster innovation

9

INDUSTRY, INNOVATION  
AND INFRASTRUCTURE



RESEARCH AND PROJECTS

**NEXT GENERATION BATTERIES**

Durable, stable during charging and discharging, and produced with limited use of critical raw materials — making them more environmentally friendly — these are the key features of high-performance batteries being developed by a research team from the Faculty of Chemistry. The scientists are also working on recovering critical materials such as cobalt, nickel, and natural graphite from used lithium-ion cells.

**INTELLIGENT COMPOSITE**

Researchers from the Faculty of Civil and Environmental Engineering are developing a new class of smart materials with advanced properties that open up wide possibilities for the design, operation, and monitoring of structures in fields ranging from construction to biomedical engineering. Their goal is to create materials capable of self-monitoring, self-heating, and self-repairing. This new class of composites could be used in civil, mechanical, aerospace, automotive, and biomedical engineering.



PUBLIC ENGAGEMENT AND PARTNERSHIP

**DEVELOPMENT INCUBATOR**

Gdańsk Tech leads a consortium partnering with the Ministry of Science and Higher Education to implement the „Development Incubator” initiative under the „Science4Business – Science for Industry” project, co-funded by the European Funds for a Modern Economy. The „Development Incubator” offers a unique opportunity for all university researchers, representing another step toward innovation and tangible support for the commercialization of scientific research.

**CAISE**

The CAISE project, carried out at Gdańsk University of Technology, is part of a broader initiative to build a European digital cloud. The project brings together 80 companies and several research institutions from across Europe. Gdańsk Tech was invited to join thanks to its strong scientific and technological resources. The project represents an important step toward Europe’s digital independence — one in which the university plays an active role.

EDUCATION AND STUDENT ACTIVITY

**STUDENT SUCCESS AT INTERNATIONAL TRADE FAIR**

A student team from the “Materials in Medicine” Student Club at the Faculty of Mechanical Engineering and Ship Technology, Gdańsk University of Technology, won three prestigious awards at the 2025 edition of the International Exhibition of Inventions in Geneva. The awards recognized two innovative bone cements, MagPVACem and GellMagCem, designed to support bone regeneration in orthopedic and trauma patients.

**PROTOLAB**

ProtoLabs at Gdańsk Tech are state-of-the-art, 24/7 labs open to students and researchers. They provide advanced equipment for developing and testing solutions in information and communication technologies (ICT) and have the technical infrastructure to design and build virtually any prototype.



ProtoLabs



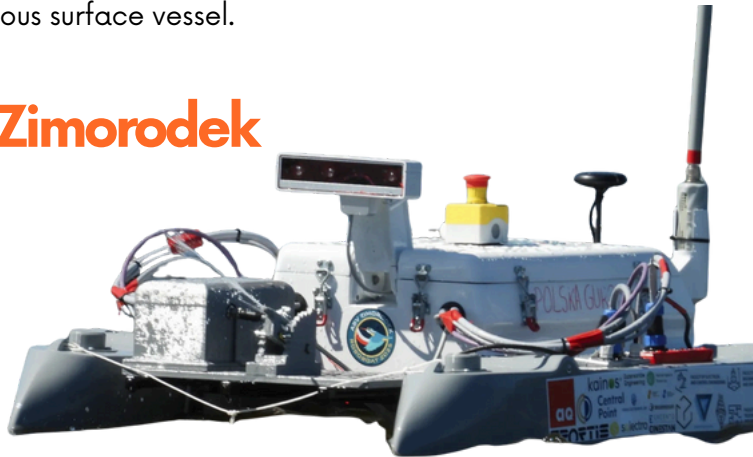
**SKY IS NOT THE LIMIT**

In May 2025, Gdańsk Tech hosted the student conference “Sky Is Not The Limit”, focused on space technology and exploration. The event brought together the academic community, representatives from the space sector, and enthusiasts, providing a platform for knowledge exchange and mutual inspiration..

**ROBOBOAT**

In March 2025, at Nathan Benderson Park in Sarasota, Florida, the RoboBoat competition took place, where the SimLE Student Research Club—bringing together students from the Faculty of Mechanical Engineering and Ship Technology, the Faculty of Electronics, Telecommunications and Informatics, and the Faculty of Electrical and Control Engineering—won first place in four categories. The team showcased the ASV Zimorodek, a 3D-printed autonomous surface vessel.

**ASV Zimorodek**



**INTERNAL ACTIVITIES OF THE UNIVERSITY**

**ECO-INNOVATION CENTER**

The Eco-Innovation Center is a modern facility at Gdańsk University of Technology, covering nearly 13,000 m² and combining teaching, laboratory, and research functions. The center focuses on key challenges such as drought and flood mitigation, resource and energy recovery, wind energy, using waste in concrete production, and removing harmful substances from water.

**INTELLECTUAL PROPERTY PROTECTION**

Patent protection for new technologies helps innovators advance solutions that can contribute to sustainable industrial development. Support for researchers and students in this area is provided by Gdańsk University of Technology’s Patent Attorneys Office, which handles tasks such as legal support in industrial property matters, advice on commercializing research and scientific work, and guidance on intellectual property protection and patent application procedures at the university.



Eco-Innovation Center



# Reduce inequality within and among countries



14 1,25 1,7% 35,7% 7,1%



Scholarly Output



Field-Weighted Citation Impact (FWCI)



Share of Gdańsk Tech Publications in Poland



International Collaboration



Output in Top 10 Citation Percentiles

## RESEARCH AND PROJECTS

### ACCESSIBLE UNIVERSITY

Gdańsk Tech is implementing the “Accessible University” project to make the campus more accessible for people with diverse needs, including those with disabilities. The initiative includes training for 270 staff members across various departments and the development of a dedicated accessibility office. Planned actions include improving architectural and digital accessibility, installing assistive technologies, introducing accessibility procedures, and organizing awareness-raising trainings on disability. The project is scheduled to run until July 2028.



### SUPPORTING EMPLOYEES WITH ADHD

The Faculty of Management and Economics is running the project “Towards a Model of Bidirectional ADHD-Neurotypical Relationships (DANR): Studying High-Quality Workplace Interactions Between Employees with ADHD and Neurotypical Colleagues.” The findings will provide practical guidance for organizations aiming to better support diversity and foster an inclusive work environment. A deeper understanding of these dynamics could lead to higher job satisfaction for employees with ADHD and improved collaboration within teams.

## PUBLIC ENGAGEMENT AND PARTNERSHIP

### FRIENDLY PLAN APP

The „Friendly Plan” app for tablets supports therapy for individuals with autism and other neurodevelopmental disorders. It was developed by students from the Faculty of Electronics, Telecommunications and Informatics as part of group projects and theses, in collaboration with the Child Development Support Institute.

### NEUROATON

In May 2025, Gdańsk Tech hosted Neuroaton – the first ideathon in Poland focused on neurodiversity in the academic environment. During the event, students and doctoral candidates developed ideas to create a more accessible, friendly, and inclusive campus for neurodiverse individuals. The winning team designed a sensory overlay for the Gdańsk Tech campus map to help people who are sensitive to sensory stimuli navigate the campus more easily.



## EDUCATION AND STUDENT ACTIVITY

### ADAPCIAK

The first-year orientation camp, known as Adapciak, is organized by the Gdańsk Tech Student Government. It offers new students a great opportunity to get acquainted with the university and start building connections. During the camp, senior students share their experience with newcomers, helping them get a better understanding of student life before the academic year officially begins.

### INCLUSIVE SPORTS SECTION – GDAŃSK TECH ACADEMIC SPORTS CENTER

The Inclusive Sports Section at Gdańsk Tech’s Academic Sports Center organizes competitions and fosters broad engagement within the university community, including students, doctoral candidates, and staff. Through training sessions, the section prepares athletes to participate in the Polish AZS Inclusive Championships, a series of sports competitions for individuals with disabilities.





## INTERNAL ACTIVITIES OF THE UNIVERSITY

### EQUALITIES OFFICER

The Ombudsperson for Academic Rights and Values serves, inter alia, as the equalities officer – an independent authority responsible for safeguarding the rights of the university community and promoting core academic values. Their key responsibilities include mediating and resolving disputes, preventing unfair treatment, and fostering a culture of respect. The officer operates according to principles of confidentiality, independence, neutrality, and impartiality, ensuring that all cases are handled fairly.

### EQUALITY AND DIVERSITY PLAN

Gdańsk University of Technology's Equality and Diversity Plan for 2025–2028 provides a framework for developing, implementing, and monitoring a comprehensive approach to equality and diversity, with a focus on initiatives that promote inclusivity and engagement across the university community.

### FUNCTIONAL DIVERSITY OFFICE

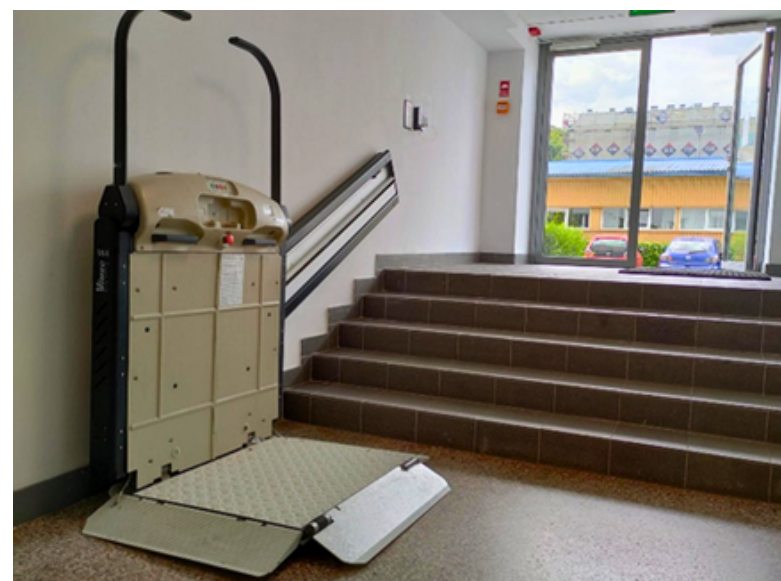
At Gdansk Tech, the Functional Diversity Office has been established. Its mission is to create conditions that enable individuals with special needs to fully participate in university life. The Office works to ensure equal educational opportunities, including in cases of sudden health deterioration that make it difficult to follow the standard form of education.

### DISABLED STUDENTS

Students with disabilities at Gdańsk Tech have access to individualized arrangements for completing courses and taking exams. Most campus buildings are equipped with ramps, stair lifts, and elevators for people with mobility impairments. University dormitories also offer accessible rooms, and the library provides text magnification devices and a computer adapted for visually impaired students or those using wheelchairs. Additional support is also available through the adaptation of teaching materials into digital formats.

### LEARNING & DEVELOPMENT

As part of the "Accessible University" project, the 2025 training sessions titled "Enhancing university accessibility for students with disabilities" were held. Participants learned about the legal framework for people with disabilities, their specific needs, and how disabilities can affect the learning process. The sessions covered effective communication strategies and ways to support students with disabilities, highlighting best practices implemented at the university. Attendees also had the opportunity to participate in disability simulations and try out assistive devices.



Platform lift.



Ramp for persons with disabilities.



Computer workstation with a ZoomText keyboard at the Gdańsk Tech Library.



Big Track – enlarged computer mouse at a workstation in the Gdańsk Tech Library.



Induction loop assisting hearing aid users at the reader service desk in the Gdańsk Tech Library.



Electronic magnifier available at the Gdańsk Tech Library.

**Selected facilities for persons with disabilities and special needs available on the campus.**



Make cities and human settlements inclusive, safe, resilient and sustainable

11 SUSTAINABLE CITIES AND COMMUNITIES



771,334,0%59,7%15,6%

Scholarly Output

Field-Weighted Citation Impact (FWCI)

Share of Gdańsk Tech Publications in Poland

International Collaboration

Output in Top 10% Citation Percentiles

RESEARCH AND PROJECTS

BATS

In October 2024, partners of the Better Active mobility Solutions (BATS) project met in Tallinn. The project aims to improve year-round active mobility—walking and cycling—under varying lighting and weather conditions. Research conducted at Gdańsk University of Technology's Faculty of Civil and Environmental Engineering will help identify performance indicators for active mobility solutions and contribute to the development of traffic management strategies under diverse weather conditions.

PUBLIC ENGAGEMENT AND PARTNERSHIP

CLIMAGEN

As part of the ClimaGen project, the city of Gdańsk, together with the Faculty of Architecture and the Initiative Miasto Association, is focusing on revitalizing areas of the Young City district and parts of the Old Town. Selected areas will be enhanced through the regeneration of existing public spaces and the implementation of nature-based solutions such as permeable surfaces, soil replacement, retention planting beds, and pollinator-friendly plantings. These measures aim to improve air quality, increase biodiversity, and mitigate the impacts of climate change.

SMART TOWN

Rumia is among the first towns in the Tri-City Metropolitan Area to harness modern technologies and digital data to accelerate its development. At the end of March 2025, the Pomeranian regional government, along with Gdańsk, Gdynia, and Gdańsk University of Technology, signed a letter of intent paving the way for the creation of a "smart metropolis." The collaboration aims to use advanced technologies and information collected in a centralized data platform, allowing analysis of various urban challenges. This will enable better urban planning, improved transportation management, more efficient energy use, and solutions to everyday problems faced by residents.

INTERNAL ACTIVITIES OF THE UNIVERSITY

CYCLE TO CAMPUS

"By bike to the University" is an annual spring–summer campaign jointly organized by Gdańsk Tech and the University of Gdańsk. The initiative encourages students and staff to swap their daily commuting habits by opting for bikes, scooters, or other means of transport instead of cars. Each year, hundreds of participants take part in the campaign, competing for attractive prizes and gift cards.

EDUCATION AND STUDENT ACTIVITY

E-LEARNING COURSE ON SMART CITIES

The e-learning course "Smart city and data management foundations," developed by staff from the Faculty of Management and Economics at Gdańsk University of Technology, provides thorough preparation for roles such as Smart City Specialist or Chief Data Officer in urban environments. Participants gain a comprehensive understanding of smart city concepts, urban data management techniques, and the technologies driving urban innovation. The course also equips them with practical skills for implementing smart city solutions.

SMART SUSTAINABLE CITY STUDENT CLUB

In 2025, the Smart Sustainable City Student Club was established, bringing together students interested in sustainable development, cutting-edge technologies, and the future of urban environments. Its mission is to help shape the cities of tomorrow—places where technology, ecology, and society coexist in harmony.

URBAN PLANNING AT GDAŃSK TECH

Students of the Urban Planning program at the Faculty of Architecture develop knowledge and practical skills in areas such as urban design, revitalization, spatial planning, and territorial management. The curriculum covers topics related to shaping urban, rural, and residential spaces, as well as open landscapes, in ways that are functional, sustainable, and inclusive.

NEW PATHWAYS IN SUSTAINABLE DESIGN

The master's program in Architecture now offers new design pathways built around the three key pillars of sustainable development: environment, society, and economy. Students can deepen their design knowledge and skills within their chosen thematic area. Topics include climate, energy efficiency, blue-green infrastructure, eco-modernization of buildings and housing estates, urban mobility, affordable housing, and quality of life in cities—tackling some of the most pressing challenges in contemporary architecture and urban planning.

PARTICIPATORY BUDGET AT GDAŃSK TECH

Gdańsk Tech's participatory budget helps fund ideas that make the campus greener, more welcoming, and sustainable. In 2024, winning projects included a secure bike parking area with card access and CCTV, a covered bike shelter, wall-mounted water dispensers, and upgraded gyms in all dormitories. Thanks to the strong engagement of the university community, the campus is gaining new spaces that support healthy living, social interaction, and smarter use of resources.



# Ensure sustainable consumption and production patterns



12 RESPONSIBLE CONSUMPTION AND PRODUCTION

831,864,1%62,7%33,7%

Scholarly Output

Field-Weighted Citation Impact (FWCI)

Share of Gdańsk Tech Publications in Poland

International Collaboration

Output in Top 10% Citation Percentiles

## RESEARCH AND PROJECTS

### LOW CALORIFIC GAS FOR GREEN POWER PRODUCTION (LoCaGas)

As part of the LoCaGas project, three technologies for using low-calorific gas to produce energy and heat are being developed and tested: a spark-ignition engine running on an oxygen-enriched mixture, landfill gas enrichment, and a dual-fuel engine technology. The second technology will be based on a rotating-fluid reactor invented at Gdańsk University of Technology.

### CABBAGE AS SENSOR MATERIAL

How can problematic food waste be transformed into something valuable? Doctoral students and researchers from Gdańsk University of Technology, together with the Institute of Fluid-Flow Machinery of the Polish Academy of Sciences, successfully tackled this challenge by turning napa cabbage leaves into a material suitable for sensors—not only for food-related applications but also for medical and environmental uses. The results of this research, funded by the TECHNETIUM program, were published in the article “Catalytic properties of copper-ion-enriched cabbage-based carbon materials towards ascorbic acid detection” in „Sustainable Materials and Technologies” and led to a patent application.



### TECoNaut

The small MicroPolo yacht, which had never been sailed and spent over a decade in a garden under a tarp, is getting a new “eco-life” through the TECoNaut project. As a project partner, Gdańsk Tech aims to show that sustainable sailing is more than just modern materials and eco-propulsion—it’s also about rescuing long-unused vessels. Thanks to the dedication of Gdańsk Tech staff and students, along with support from the university and sponsors through the “Sailing at Gdańsk Tech” program, a full-scale renovation of the MicroPolo is now underway.

## ZPUBLIC ENGAGEMENT AND PARTNERSHIP

### CIRCULAR MuSe

The CIRCULAR MuSe project aims to improve resource efficiency in municipal services across the Southern Baltic region. It contributes to developing strategies and solutions to reduce raw material consumption and cut waste by promoting the reuse of materials within supply chains. The project is also expected to raise awareness and knowledge while supporting the implementation of circular economy practices in the municipal sector.

Circular MuSe

Interreg South Baltic

Co-funded by the European Union

### BETTER PAPER PACKAGING MANAGEMENT (BePacMan)

The BePacMan project aims to help transform business models in the paper packaging market, support companies through this change, and raise awareness about reducing carbon footprints by extending the life of paper packaging. The project will contribute to using resources more efficiently by introducing new approaches and business models, promoting practical initiatives, and helping companies reuse and cut down on paper packaging waste.



## EDUCATION AND STUDENT ACTIVITY

### WOODEN CONSTRUCTION DAYS

W kwietniu 2025 r. odbyła się VII edycja Dni Budownictwa Drewnianego organizowana przez PG i Koło Naukowe Technologii i Organizacji Budowy "KOBRA". Podczas tego wydarzenia uczestnicy mieli okazję wziąć udział w różnorodnych prezentacjach i wykładach, które obejmowały tematy związane z projektowaniem, konstrukcją, ekologią i zrównoważonym rozwojem w budownictwie drewnianym.



## INTERNAL ACTIVITIES OF THE UNIVERSITY

### WASTE MANAGEMENT AT GDAŃSK UNIVERSITY OF TECHNOLOGY

As a socially responsible institution, Gdańsk Tech actively promotes environmental protection and sustainable development. In June 2025, a new Rector's Regulation on waste management was adopted, streamlining and standardizing all related practices across the university.

### BIKE SHELTER MADE FROM A TURBINE BLADE

A research installation has been built on the Gdańsk Tech campus in the form of a bicycle shelter made from a decommissioned wind turbine blade and innovative concrete incorporating the crushed blade. The project was carried out by the Faculty of Civil and Environmental Engineering in collaboration with the Faculty of Architecture.



### PAPER TOWEL RECYCLING

Since May 2025, a new paper towel recycling service has been piloted in the restrooms of two buildings on the Gdańsk Tech campus. Instead of being thrown away with mixed waste, used towels are sent to a local facility to be processed into new paper products, including fresh towels. The initiative helps close the materials loop, reduces waste, and lowers the university's carbon footprint.



Five-stream waste segregation containers.



Small electronic waste collection stations.



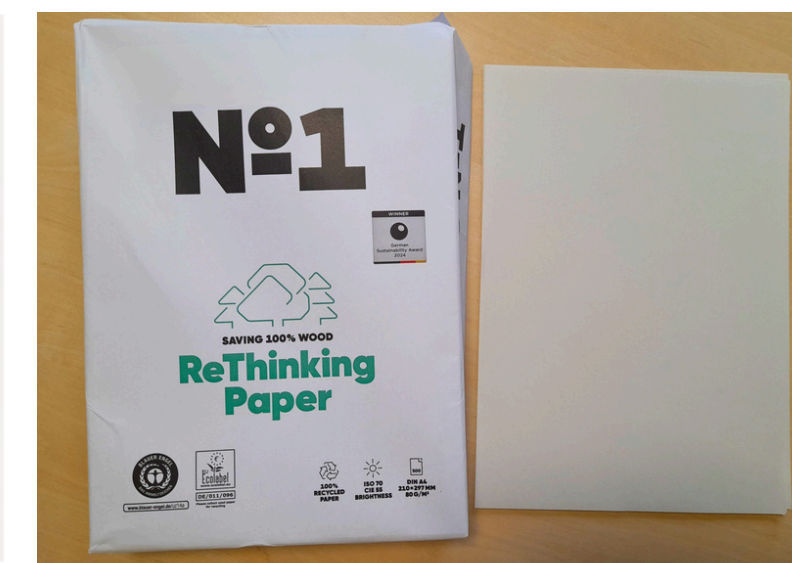
Drinking water dispensers.



Use of pruned tree and shrub branches as mulch on the campus.



Reusable envelopes for internal correspondence.



Recycled unbleached office paper.

**Selected campus solutions related to waste management and promoting reduction of resources consumption.**



# Take urgent action to combat climate change and its impacts



77 2 4,1% 62,3% 32,5%



Scholarly Output



Field-Weighted Citation Impact (FWCI)



Share of Gdańsk Tech Publications in Poland



International Collaboration



Output in Top 10 Citation Percentiles

## RESEARCH AND PROJECTS

### GINA

GINA is an educational project aimed at introducing innovative teaching modules on green infrastructure in urban areas at technical universities in Poland, the Netherlands, and Denmark. The modules cover topics such as water management, biodiversity, climate change, spatial planning, remote sensing, and the design of Nature-Based Solutions (NBS). The project addresses existing gaps in university curricula and strengthens collaboration between universities and other educational and research initiatives. As a result, students will be better prepared to tackle contemporary environmental challenges in urban settings.

## PUBLIC ENGAGEMENT AND PARTNERSHIP

### PLAN-B

The multidisciplinary project PLAN-B aims to improve understanding of and help reduce the impact of artificial light and noise pollution on terrestrial biodiversity and ecosystem services. It also seeks to support and enhance actions outlined in the EU Biodiversity Strategy and to pave the way toward achieving international biodiversity goals. The project involves collaboration with partners from across Europe and beyond (including Brazil), key networks such as Biodiversa+, and the team implementing the sister Horizon Europe project Aquaplan, which focuses on aquatic biodiversity and ecosystems. Alongside Gdańsk University of Technology, the City of Gdańsk is also taking part in the initiative.

## EDUCATION AND STUDENT ACTIVITY

### CLIMATE CHANGE MITIGATION AND ADAPTATION

The new postgraduate program Climate Change Mitigation and Adaptation is designed to deepen participants' knowledge, skills, and competencies in mitigating the effects of climate change and adapting urban and rural areas—as well as their communities—to evolving climate conditions. This unique program is delivered jointly by experts from three universities: Gdańsk University of Technology, the University of Gdańsk, and the Medical University of Gdańsk, as part of the Daniel Fahrenheit Universities Association in Gdańsk.

### ZiEMiO DAY

In April 2025, the “ZiEMiO Day” environmental campaign was held, jointly organized by the Student Councils of the Faculty of Management and Economics and the Faculty of Mechanical Engineering and Ship Technology. Gdańsk Tech students took part in cleaning up green areas around the campus.

The event aimed not only to promote environmental care but also to bring the academic community together around shared values—respect for nature and social responsibility.

### GREEN CAMPUS GATES

Master's students from the Faculty of Architecture took part in the university's „Green Campus Gates” urban and architectural competition. The aim was to develop a concept for a new zone linking the Gdańsk Tech campus with the surrounding residential and commercial district of Górny Wrzeszcz.



## INTERNAL ACTIVITIES OF THE UNIVERSITY

### GDAŃSK TECH CLIMATE PLAN

The 2022-2030 Climate Plan at Gdańsk Tech sets out concrete actions to combat climate change across teaching and research activities. It also aims to raise environmental awareness, engage the university community, and implement internal initiatives focused on the sustainable use of natural resources.

### GDAŃSK TECH IN THE RACE TO ZERO

Gdańsk Tech is actively implementing measures pledged under the Race to Zero campaign. Launched in 2020 by the United Nations Framework Convention on Climate Change (UNFCCC), the initiative brings together business leaders, cities, regions, investors, and educational and research institutions to achieve net-zero greenhouse gas emissions by 2050 at the latest. Gdańsk Tech joined the Race to Zero campaign in July 2023.





Conserve and sustainably use the oceans, seas and marine resources for sustainable development



37 1,17 7,9% 54,1% 13,5%



Scholarly Output



Field-Weighted Citation Impact (FWCI)



Share of Gdańsk Tech Publications in Poland



International Collaboration



Output in Top 10% Citation Percentiles

RESEARCH AND PROJECTS

WATER ENGINEERING FOR CLEANER RIVERS

The project “Studying the transport mechanisms of macroplastic waste in vegetated streams,” carried out by researchers from the Faculty of Civil and Environmental Engineering at Gdańsk University of Technology, the Institute of Geophysics, and the Institute of Hydraulic Engineering of the Polish Academy of Sciences, aims to trace the path of plastic bottles and other plastic debris through small rivers and streams with vegetated banks. The research seeks to map this movement and develop solutions to reduce the spread of plastic waste in inland waters and its eventual outflow to seas and oceans.

AQUIGROW

The Aquigrow project focuses on developing tools to support groundwater management in the face of increasing drought risks. It is carried out by researchers from the Faculty of Civil and Environmental Engineering at Gdańsk University of Technology, together with partners from Italy, France, Israel, and South Africa, as part of the international Water4All partnership. The data collected will enable the creation of numerical models of water flow in aquifer systems, followed by predictive simulations for various climate change and land-use scenarios.

PUBLIC ENGAGEMENT AND PARTNERSHIP

DATASET

In the Dataset project, researchers from the Faculty of Civil and Environmental Engineering are developing a methodology to assess groundwater vulnerability in coastal areas. They are creating an open-access digital tool that uses publicly available hydrogeological datasets at varying spatial resolutions to generate dynamic maps of groundwater susceptibility, taking into account changes in climate conditions and land use over time. Gdańsk Tech’s partners include the Polish Geological Institute as well as local municipalities and government institutions.

CALL TO PROTECT THE BALTIC SEA

The sixth meeting of the Economic Council at the Daniel Fahrenheit University Alliance focused on the Baltic Sea. Council members issued a call to clean up the sea—particularly from chemical weapons—and to protect its waters. Proper funding and technology are essential to address this threat. Such technology already exists, including vehicles developed by researchers at Gdańsk University of Technology: the autonomous boat Hornet and the OPM Głuptak vehicle, designed for the neutralization of underwater mines and chemical weapons.

EDUCATION AND STUDENT ACTIVITY

MARINE AND COASTAL ENGINEERING

Marine and Coastal Engineering is an interdisciplinary master’s program offered jointly by the Faculty of Civil and Environmental Engineering and the Faculty of Mechanical Engineering and Ship Technology. Graduates gain advanced knowledge in the design and construction of hydraulic structures in marine, coastal, and riverine environments, along with an understanding of sustainable development principles.

WETPOL CONFERENCE

In September 2025, students, doctoral candidates, and staff from Gdańsk Tech participated in the prestigious international WETPOL 2025 conference. For the first time, the event was held in Poland—at Gdańsk University of Technology. Topics included the protection and restoration of natural wetlands, water treatment, and the use of nature-based solutions (NBS) in water management.

STUDENT ENVIRONMENTAL RESEARCH

The Automation Student Club, in collaboration with the Chemistry Club, once again conducted environmental research in the Baltic Sea. During the expedition, a total of 40 water samples were collected from 10 fixed locations using an underwater drone—sites that had also been monitored in previous trips. The data will be used to compare results and assess seasonal changes in water quality. The drone used for the research was developed as part of the project “Studying seasonal variability of ecosystem services in the Baltic Sea.”



INTERNAL ACTIVITIES OF THE UNIVERSITY

HYDRAULICS LABORATORY

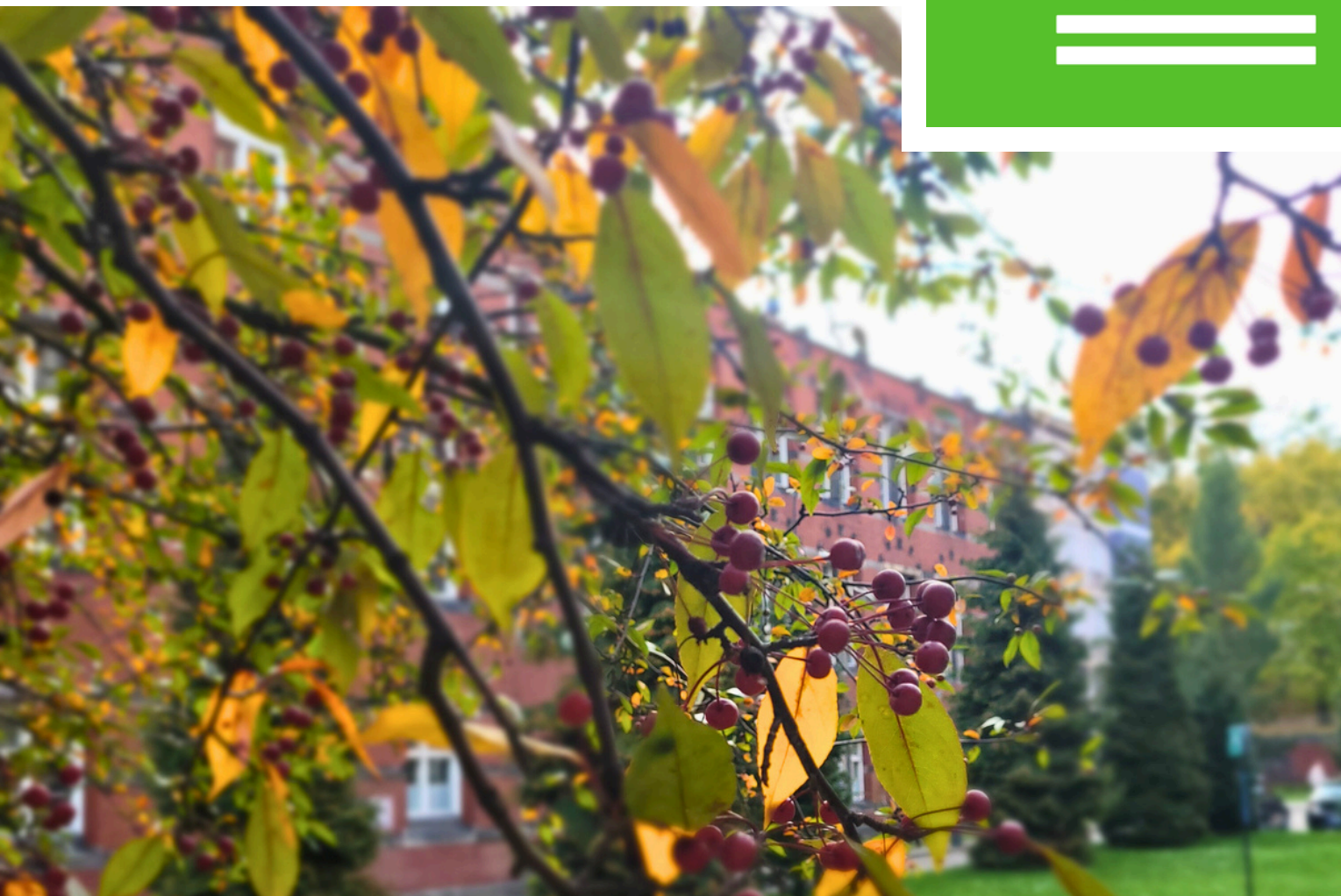
The Hydraulics Laboratory at Gdańsk Tech’s Eco-Innovation Center is a one-of-a-kind facility in the region. Water circulates through three closed-loop channels, supplied from a 150 m³ tank and six submersible pumps. A central collector, with adjustable gates, directs water to any of the experimental stations and back to the tank. The lab also features a dedicated water treatment system (ozonation). It can host up to 20 interchangeable setups for flow and wave experiments (including a wave generator). The laboratory conducts research on water management, hydraulics, and hydrotechnical engineering, and is fully equipped for student teaching and practical exercises.







**Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss**



**17 2,15 1,5% 52,9% 29,4%**



Scholarly Output



Field-Weighted Citation Impact (FWCI)



Share of Gdańsk Tech Publications in Poland



International Collaboration



Output in Top 10% Citation Percentiles

## RESEARCH AND PROJECTS

### Urban ElementTREE

Due to limited knowledge of the relationship between trees and their environment, combined with challenging urban conditions, the average lifespan of city trees has declined sharply over the past few decades. Urban ElementTREE is an international project addressing this issue. Led by Gdańsk University of Technology, the research team includes scientists from the Faculties of Architecture, Chemistry, and Civil and Environmental Engineering. The team's findings and recommendations produced will help optimize urban planning and the management of green spaces by leveraging making full use of tree-related data.

### URBAN GREENERY

The Faculty of Architecture completed the project "Urban greenery and air quality improvement," which involved 12 months of local air quality measurements along Gen. Józef Haller Avenue in Gdańsk. The analysis of the results allowed the team to develop preliminary recommendations on using roadside greenery as a barrier to reduce pedestrians' exposure to air pollution.

## PUBLIC ENGAGEMENT AND PARTNERSHIP

### ECLAS 2024

At the annual ECLAS conference in September 2024, co-hosted with the Erasmus TELOS project — whose members include staff from the Faculty of Architecture— brought 250 participants from across Europe. The event focused on sustainable landscape design, with the Gdańsk Tech team leading 10 thematic sessions on topics such as energy, cultural heritage, and global value chains.

## INTERNAL ACTIVITIES OF THE UNIVERSITY

### GDANSK TECH CAMPUS

The 80-hectare Gdańsk Tech campus blends modern, eco-friendly buildings with striking historic architecture dating back to the early 20th century. Its green spaces provide shaded areas for relaxation beneath mature trees. Nearly 100 species of trees and shrubs, both deciduous and coniferous, grow on campus, with tree-lined avenues defining the historic section, whose park layout was established in 1904. This diversity of plant life supports local biodiversity, while the green areas also host hedgehog shelters, insect hotels, and beehives.

### AIR QUALITY MONITORING

Real-time air quality data for the area around Gdańsk Tech are available on the university's Sustainable Development portal. The monitoring station, located on the roof of the STOS Competence Center – home to CI TASK – was installed as part of the PIONIER-LAB project. Making this data publicly accessible helps promote eco-friendly habits, such as choosing cycling or other sustainable transport options over driving.



## EDUCATION AND STUDENT ACTIVITY

### GEOLOGY AND HYDROLOGY

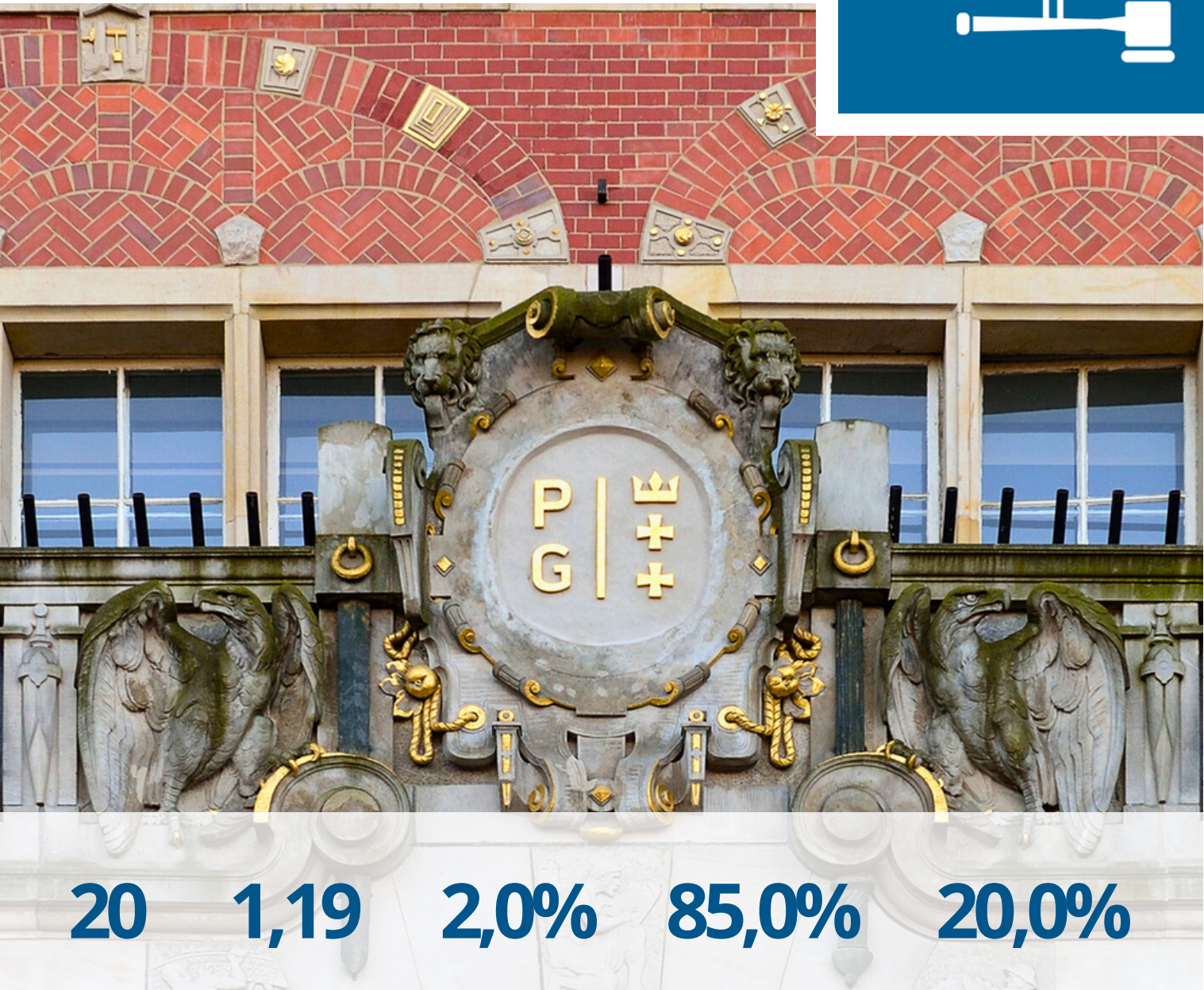
Students in the Environmental Engineering program at the Faculty of Civil and Environmental Engineering at Gdańsk Tech take courses in Meteorology and Climatology, where they learn the impacts of climate change — including shifts in temperature, precipitation, and extreme weather events. This knowledge is crucial for understanding how these changes affect terrestrial ecosystems such as forests, soils, vegetation, and wildlife, and for developing strategies to protect them.

### STUDENT GARDEN

Members of the Gdańsk Tech Student Gardening Club (KOS PG) are actively involved in greening and revitalizing areas across the campus. They work with professional gardeners, develop their own projects, and design systems for collecting and purifying rainwater. The club also promotes environmental awareness through lectures and workshops for the university community. Their efforts have led to the creation of a campus garden.



Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels



16

PEACE, JUSTICE  
AND STRONG  
INSTITUTIONS

RESEARCH AND PROJECTS

DROZD

DROZD, an unmanned vehicle being developed at Gdańsk Tech, will be the first small-scale craft of its kind in the world. Designed primarily to support naval operations, it serves as an unmanned surface-air platform that uses the ground-effect principle to assist special forces in maritime environments. The project, launched in 2023, is being carried out by a consortium including Gdańsk Tech (as the lead institution), the Jarosław Dąbrowski Military University of Technology, and the Air Force Institute of Technology. It is funded through a national defense program by the National Centre for Research and Development, with the ultimate goal of enhancing national security.

MARITIME SAFETY

Researchers at Gdańsk Tech have completed pioneering studies on surf-riding on bichromatic waves—irregular waves formed by the superposition of two different wave patterns. Surf-riding, where a vessel moves with the wave, can lead to loss of course or capsizing, particularly for fast, short vessels such as lifeboats or recreational boats. The research combined experiments in a model basin with larger-scale tests conducted at the Maritime Advanced Research Centre in Gdańsk. The findings are highly relevant for maritime safety and for improving understanding of vessel behavior in irregular wave conditions.

PUBLIC ENGAGEMENT AND  
PARTNERSHIP

REVOLUTIONIZING THE POLISH JUDICIARY

In June 2025, Gdańsk Tech hosted the conference “Artificial intelligence in law and administration: opportunities and challenges,” focused on AI applications in the public sector, particularly in the judiciary and administration. The event featured Lex AI—a virtual lawyer powered by artificial intelligence—and a prototype flow probe, a tool for automatically generating meeting minutes.

HORNET

Researchers from the Faculty of Electronics, Telecommunications and Informatics have developed Hornet, an autonomous, unmanned vessel equipped with advanced instruments for protecting and inspecting Polish offshore installations, such as wind farms, and for conducting research on the Baltic seabed. It is the first vessel of its kind to be designed and built entirely in Poland, and it is significantly more cost-effective than its foreign counterparts.

INTERNAL ACTIVITIES OF THE UNIVERSITY

GDAŃSK TECH VALUES

The Gdańsk Tech Strategy 2020–2030 defines the core values guiding the university. Gdańsk Tech upholds universal humanist values, including individual dignity and freedom, social equality, human solidarity, tolerance, respect for diversity, and social inclusion. The university particularly adheres to the principles enshrined in the European Convention on Human Rights. Among its foremost values is a commitment to the well-being and quality of life of current and future generations. Gdańsk Tech actively contributes to achieving the UN Sustainable Development Goals and the European Green Deal. The university is also a signatory of the Declaration on Social Responsibility of Universities and engages in initiatives that foster societal attitudes aligned with its principles.

ANTI-CORRUPTION POLICY

Gdańsk Tech takes a comprehensive approach to preventing bribery and corruption. Its policy framework includes the Code of Ethics, the Office of the University Ombudsman, internal reporting procedures, and internal auditing regulations. The anti-corruption policy is governed by the Ministry of Science and Higher Education, which oversees all public universities in Poland. In addition, Gdańsk Tech aligns its practices with European Union policy, adhering to all relevant EU anti-corruption regulations.

EDUCATION AND STUDENT ACTIVITY

STUDENT GOVERNMENT

Founded in 1957, the Student Government of Gdańsk Tech is the oldest organization of its kind in Poland. It serves the student community in four main areas: protecting students’ rights, dignity, and interests; promoting cultural and recreational activities; initiating charitable campaigns and university-wide projects; and addressing students’ social and welfare needs.





# Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development



## 17 PARTNERSHIPS FOR THE GOALS



### RESEARCH AND PROJECTS

#### TRANSLATIONAL BRAIN DISEASE CENTER

Gdańsk Medical University, Gdańsk University of Technology, and the University of Gdańsk have signed an agreement to establish the Translational Brain Disease Center, aimed at fostering research collaboration in neuroscience with a focus on clinical applications. The center will bring together teams from diverse disciplines—biology, psychology, engineering, and mathematics—to develop new diagnostic and therapeutic approaches for neurodegenerative diseases, including the use of artificial intelligence.

#### PUBLIC ENGAGEMENT AND PARTNERSHIP

##### ENHANCE+

Gdańsk Tech is committed to internationalization, with one of the key tools being its membership in ENHANCE – a European alliance of ten leading technical universities from eight countries, established under the European Universities Initiative within the Erasmus+ program. Through ENHANCE, Gdańsk Tech students, doctoral candidates, and staff can study or work at partner universities, host international partners, participate in research projects, and engage in joint teaching and research initiatives.

#### DANIEL FAHRENHEIT UNIVERSITY ALLIANCE IN GDAŃSK

The Daniel Fahrenheit University Alliance in Gdańsk (FarU) was established on the joint initiative of the rectors of Gdańsk Medical University, Gdańsk University of Technology, and the University of Gdańsk. Its main objective is to maximize the resources and potential of the three member universities. The Alliance focuses on developing solutions that foster collaborative research and innovation, and on providing recommendations for consolidating existing or creating new inter-university doctoral schools.

#### ETHICS IN RESEARCH

The conference “Ethics in research – how to strengthen integrity and research responsibility?” was held at Gdańsk Tech in April 2025. The event focused on contemporary challenges in conducting scientific research and the ethical aspects of academic work. The program included lectures, a panel discussion, and workshops on research responsibility and transparency. The conference aimed to provide a space for reflection, experience sharing, and the development of recommendations for university leadership and the Ministry of Science.

#### FarU QUALITY DAY

Researchers, educators, and, above all, enthusiasts came together for the annual conference dedicated to the quality of education. The program of this year’s “FarU Quality Day,” held in November 2024, focused on transversal skills and how to integrate them into everyday teaching practice. Topics covered included post-disciplinary education, competency mapping, and qualifications from the perspective of employers.

#### GAMBIT 2025

For the first time, the European Commission’s High-Level Group on Road Safety convened outside Brussels, in Poland. The meeting, held during Poland’s EU presidency, took place at Gdańsk Tech alongside the 15th International GAMBIT Conference 2025, bringing together government and local administration officials, researchers, and European leaders in road safety management.

#### IP & INNOVATION DAY

The event IP & Innovation Day: from science to business at Gdańsk Tech concluded the Intellectual Property & Innovation Days, held across three Gdańsk universities — the University of Gdańsk, the Medical University of Gdańsk, and Gdańsk University of Technology. This joint initiative by the universities’ Technology Transfer Centers aimed to raise awareness within the academic community about intellectual property protection, the broad commercialization of research results, and to facilitate networking between the scientific and business communities





## MULTI-PROVIDER CLOUD-EDGE CONTINUUM

In March 2025, Gdańsk Tech hosted a meeting with leading European cloud service providers, representatives from 12 EU member states, and the European Commission. The discussions focused on the advancing cutting-edge cloud computing and edge processing technologies.

## ERAC

Members of the European Research Area and Innovation Committee (ERAC) and the Research Working Group (RWP) visited Gdańsk Tech in June 2025 as part of events organized during Poland's Presidency of the Council of the European Union. For both the city of Gdańsk and the university, the visit was an opportunity to strengthen international collaboration, showcase national research and innovation potential, and contribute to shaping the future of science and innovation in Europe.

## IBM

Gdańsk Tech and IBM Poland signed an academic cooperation agreement to support the development of the Pomeranian innovation ecosystem. The partnership will include joint educational and innovation programs, as well as student research projects in areas such as artificial intelligence and cybersecurity. The agreement addresses the development challenges facing the Pomeranian region and emphasizes the crucial role of collaboration between academia and industry in digitalization, the transition to green energy, and the growth of offshore and maritime logistics sectors.



## EDUCATION AND STUDENT ACTIVITY

### FAHRENHEIT SCIENCE PICNIC

The 4th Fahrenheit Science Picnic took place in 2025, organized by the Fahrenheit Universities — Gdańsk University of Technology, Medical University of Gdańsk, and University of Gdańsk together

with Hevelianum. More than 800 educators engaged both young explorers and adult visitors in hands-on science activities. This free annual event, held on Góra Gradowa — a scenic hill with panoramic views of Gdańsk — attracts large crowds every year.

## CIVIL SOCIETY

In January 2025, a meeting was held to discuss the role of Gdańsk Tech in fostering civic engagement and supporting senior policy initiatives in the Pomerania region. University leaders and representatives of the national administration explored potential areas of collaboration, including academic and student projects aimed at improving the lives of seniors. The discussion also highlighted the university's strong social commitment, exemplified by initiatives such as its on-campus preschool and the "University of Talents" summer school. The meeting opened new opportunities for joint efforts to enhance the quality of life in the region.

## INTERNAL ACTIVITIES OF THE UNIVERSITY

### SUSTAINABLE DEVELOPMENT WEEK

In October 2024, Gdańsk Tech organized its first-ever Sustainable Development Week, attracting nearly 350 participants. The event featured the conference "Climate for Action", along with workshops, lectures, competitions, and other activities promoting climate and social responsibility. Participants could take part in an SDG Speed Meeting, a film screening, a campus walk, health workshops, and a sign language lesson. The Sustainable Development Week offered an opportunity for reflection, sharing experiences, and taking collective action for a better future





## FOOTNOTES:

- 1.Paradowski, P., & Wolszczak-Derlacz, J. (2025). Inequality, poverty, and child benefits: evidence from a natural experiment. POST-SOVIET AFFAIRS, 41, 242-262. <https://doi.org/10.1080/1060586x.2025.2487372>
2. Ahmed, S., Marwat, S. N. K., Brahim, G. B., Khan, W. U., Khan, S., Al-Fuqaha, A., & Kozieł, S. (2024). IoT Based Intelligent Pest Management System for Precision Agriculture. Scientific Reports, 14, 31917. <https://doi.org/10.1038/s41598-024-83012-3>
3. Pawłowska, M., Kulesza, J., Paluszkiwicz, E., Augustin, E., & Mazerska, Z. (2024). Unsymmetrical Bisacridines' Interactions with ABC Transporters and Their Cellular Impact on Colon LS 174T and Prostate DU 145 Cancer Cells. MOLECULES, 29, 5582. <https://doi.org/10.3390/molecules29235582>
4. IMPAQT. Project manager: dr hab. inż. Joanna Żukowska. Financial Program Name: Era4Health Partnership. Project realized in: Katedra Inżynierii Transportowej. Agreement: Nr Umowy: E4H/1/IMPAQT/60/2024 from 2024-10-01
- 5.Technologia addytywna wielokanałowych impedancyjnych systemów biosensorycznych: laserowo wspomagana nanolitografia dla celowanego wykrywania bakterii. Project manager: prof. Michael Hirtz. Financial Program Name: OPUS 26+LAP/Weave, niemiecki odpowiednik NCN. Gdańsk Tech research group led by prof. Robert Bogdanowicz Wydział Elektroniki PG
6. Aktywny rozwój kompetencji i umiejętności członków projektu naukowego koła Materiały w Medycynie oraz zwiększenie jego innowacyjności i potencjału badawczego. Project manager: dr inż. Marcin Wekwejt Zakład Technologii Biomateriałów, Wydział Inżynierii Mechanicznej i Okrętownictwa. Financial Program Name: Fundusze Europejskie dla Rozwoju Społecznego 2021–2027.
7. Uczelnie Przyszłości. Project manager: dr hab. inż. Mariusz Kaczmarek. Project realized in: Biuro Projektów Strategicznych PG. Financial Program Name: Fundusze Europejskie dla Rozwoju Społecznego. Agreement: FERS.05.01.-IZ.00-0080/24 z dnia 2024-10-15
8. Kucharska W, Szeluga-Romanska M (2025), "How can the double bias of mistakes block organizational intelligence? Gender and position analysis". Gender in Management: An International Journal, Vol. 40 No. 4 pp. 531–554, doi: <https://doi.org/10.1108/GM-08-2024-0438>
- 9.Badanie mechanizmu transportu odpadów makroplastiku w potoku z roślinnością. Project manager: dr inż. Łukasz Przyborowski. Financial Program Name: Narodowe Centrum Nauki w ramach programu SONATA 19
10. DigiWind. Project manager: dr hab. inż. Michał Wójcik. Financial Program Name: Program Europa Cyfrowa - KE. Agreement: 101122836 z dnia 2023-09-12. Realized in: Biuro Projektów Strategicznych.
11. Badania możliwości implementacji i przetwórstwa materiałów zmiennofazowych (PCM) w materiałach poliuretanowych. Project manager: dr hab. inż. Łukasz Piszczyk. Financial Program Name: OPUS
- 12.Goll, J., & Zieba, K. (2025). Hospitality Human Capital process model in crisis management: Managing human capital and revealing employees' hidden capabilities. Tourism and Hospitality Research, 0(0). <https://doi.org/10.1177/14673584251313726>
- 13.AICOSERV. Project manager: dr Nina Rizun. Project realized in: Katedra Informatyki w Zarządzaniu. Financial Program Name: ERASMUS +
- 14.SMART-S2H3D. Project manager: prof. dr hab. inż. Magdalena Rucka. Financial Program Name: OPUS. Project realized in: Katedra Wytrzymałości Materiałów.
- 15.CAISE. Project manager: prof. dr hab. inż. Henryk Krawczyk. Financial Program Name: IPCEI CIS (Cyberbezpieczeństwo – CyberPL). Project realized in: Dział Usług Chmurowych. Agreement: KPOD.05.10-IW.10-0005/24 z dnia 2024-07-23
- 16.Politechnika dostępna. Project manager: dr Barbara Wikieł. Financial Program Name: Fundusze Europejskie dla Rozwoju Społecznego. Project realized in: Biuro ds. Osób z Różnorodnością Funkcjonalną. Agreement: FERS.03.01-IP.08-0059/24-00 z dnia 2024-09-26
- 17.W kierunku Modelu Dwustronnych Relacji ADHD-Neurotypowych (DANR): Badanie wysokiej jakości relacji w miejscu pracy między pracownikami z ADHD a neurotypowymi współpracownikami. Financial Program Name: Sonata BIS Narodowego Centrum Nauki
- 18.BATS. Project manager: dr hab. inż. Jacek Oskarbski. Financial Program Name: Interreg Baltic Sea Region 2021-2027.

19. CLIMAGEN. Project manager: prof. dr hab. inż. arch. Lucyna Nyka. Financial Program Name:: HORYZONT EUROPA. Project realized in: Katedra Architektury Miejskiej i Przestrzeni Nadwodnych. Agreement: Project 101139637 — ClimaGen z dnia 2024-12-16.
20. LoCaGas. Project manager: dr inż. Robert Aranowski. Financial Program Name: Europejska Współpraca Terytorialna 2021-2027. Project realized in: Katedra Inżynierii Procesowej i Technologii Chemicznej. Agreement: STHB.02.01-IP.01-0011/23-00 z dnia 2024-10-21.
21. Lipińska, W., Łepeć, A., Wolff, S., Ryl, J., Nowak, A. P., & Siuzdak, K. (2025). Transforming organic waste: Cabbage-derived carbon containing copper for electrochemical sensing of ascorbic acid. Sustainable Materials and Technologies, 45, e01434. <https://doi.org/10.1016/j.susmat.2025.e01434>
22. TEcoNaut. Project manager: dr inż. Artur Karczewski. Financial Program Name: ERASMUS +. Project realized in: Zakład Projektowania Okrętu.
23. Circular MuSe. Project manager: prof. dr hab. inż. Magdalena Gajewska. Financial Program Name: European Territorial Cooperation 2021-2027. Realised in: Department of Environmental Engineering Technology.
24. BePacMan. Project manager: dr inż. Iwona Cichowska-Kopczyńska. Financial Program Name: Europejska Współpraca Terytorialna 2021-2027. Project realized in: Katedra Inżynierii Procesowej i Technologii Chemicznej. Agreement: STHB.02.03-IP.01-0014/23-00 z dnia 2024-10-21.
25. GINA. Project manager: dr inż. arch. Dominika Wróblewska. Financial Program Name: ERASMUS +. Project realized in: Katedra Geodezji. Agreement: 2024-1-PL01-KA220-HED-000247397 z dnia 2024-09-13.
26. PLAN-B. Project manager: dr hab. inż. arch. Karolina Zielińska-Dąbkowska. Financial Program Name: HORYZONT EUROPA. Project realized in: Katedra Architektury Miejskiej i Przestrzeni Nadwodnych. Agreement: Project 101135308 — PLAN-B z dnia 2023-10-22.
27. AQUIGROW. Financial Program Name: Water4All Partnership. Project manager: prof. dr hab. inż. Adam Szymkiewicz. Project realized in: Katedra Geotechniki i Inżynierii Wodnej. Agreement: WATER4ALL/1/37/AQUIGROW/2024 z dnia 2024-07-30
28. DATASET. Financial Program Name: Water4All Partnership. Agreement: WATER4ALL/1/38/DATASET/2024 z dnia 2024-08-06. Project manager: dr hab. inż. Beata Jaworska-Szulc. Project realized in: Katedra Geotechniki i Inżynierii Wodnej.
29. Urban ElementTREE. Financial Program Name: Driving Urban Transitions Partnership. Agreement: DUT/2023/3/Urban ElementTREE/2025 z dnia 2025-02-28. Project manager: dr inż. arch. Joanna Badach. Project realized in: Wydział Architektury PG.
30. Zieleń miejska a poprawa jakości powietrza - kontynuacja lokalnych pomiarów jakości powietrza przy Al. Gen. Hallera w Gdańsku prowadzonych w ramach prac badawczych realizowanych na Politechnice Gdańskiej. Financial Program Name: WFOŚ. Project manager: dr inż. arch. Joanna Badach. Project realized in: Katedra Architektury Miejskiej i Przestrzeni Nadwodnych.
31. DROZD. Financial Program Name: SZAFIR. Porozumienie: DOB-SZAFIR/01/B/036/04/2021 z dnia 2022-12-22. Project manager: dr hab. inż. Mirosław Kazimierz Gerigk. Project realized in: Zakład Mechaniki, Wytrzymałości i Sterowania Złożonych Obiektów Technicznych.
32. Struk, M., & Krata, P. (2025). Experimental exploration of surf-riding in bi-chromatic following waves – results for the 1/64 scale ship model. OCEAN ENGINEERING, 122637. <https://doi.org/10.1016/j.oceaneng.2025.122637>.
33. TRANSACT. Project manager: dr hab. inż. Łukasz Kulas. Financial Program Name: Premia na Horyzoncie. Agreement: z dnia 2021-05-11. Project realized in: Katedra Inżynierii Mikrofalowej i Antenowej

**Photos: photo archive of the Gdańsk Tech Promotion and Press Office, Canva; photo page 4 - author: Izabela Gniazdowska-Osasiuk; photo page 7: author: Maciej Ziętarski fotografia; photo page 9: Photo title: Chemiczny w natarciu; team name: WCh-KChO grupa pościgowa - winning photo in the contest "Drużyna PG w akcji", which took place as part of the "By bike to the University" campaign in 2025.**







## DEVELOPMENT

CONTENT MANAGER OF THE REPORT  
**Prof. Dariusz Mikielewicz**, PhD, DSc  
Vice-Rector for Research

PREPARATION OF THE REPORT AND GRAPHIC DESIGN  
**Marta Jankowska** – Strategic Analysis Center  
**Agnieszka Piotrowicz** – Strategic Analysis Center  
**Beata Pronobis** – Strategic Analysis Center  
**Krzysztof Styn** – Strategic Analysis Center

