



Sustainable Development Goals Report

Technical University of Cluj-Napoca
2021-2022

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Introduction

At the United Nations General Assembly, several countries around the world have adhered to the *2030 Agenda for Sustainable Development*¹ and the 17 Sustainable Development Goals (SDGs), setting out concrete actions to be taken for people and the planet. This 2030 Agenda, together with *the Paris Agreement on climate change*², represent the roadmap for sustainable development through the economic, social, environmental and governance dimensions. The European Union (EU) has established some of the highest social and environmental standards, adopted some of the most ambitious policies for the protection of human health and has become a world leader in the fight against climate change.

The EU Member States have integrated the 17 SDGs into their public policies, and Romania has established the national framework for supporting it through the integrated approach of the objectives by developing the *National Strategy for the Sustainable Development of Romania 2030 (NSSDR 2030)*,³ applying to higher education institutions inclusively.

In order to promote the principles and values of the Strategy, the key document was elaborated, which guides the implementation of the NSSDR 2030 by proposing actions to strengthen and extend the governance framework for sustainable development: *the National Action Plan for the implementation of the National Strategy for Sustainable Development of Romania 2030 (NAP)*⁴.

Climate change as well as energy transitions represent an existential challenge for Europe but also for the whole world. The *European Green Deal* initiative⁵ RePowerEU⁶ are primarily aimed at transforming the European Union into a modern, competitive and resource-efficient economy, whereby Europe reaches net-zero greenhouse gas emissions by 2050, economic growth is dissociated from resource use and no citizen or geographical area is left behind.

The necessary actions shall cover all sectors of the economy and shall cover:

- Advanced scientific research focused on innovative solutions and environmentally friendly technologies;
- Supporting accelerated innovation in industry;
- Less polluting, cheaper and healthier forms of private and public transport;
- Buildings with intelligent, energy efficient solutions and equipped with renewable sources;
- Collaboration with international partners for sustainable development

In this context, the Technical University of Cluj-Napoca, like many other universities in the country, but as main initiator in the field, is facing both major challenges and real opportunities for sustainable development, both assuming a pragmatic, realistic approach, focused on the real needs of the regional and national socio-economic environment, by orienting the entire educational process, scientific research and innovation towards this requirement.

¹ [The 2030 Agenda for Sustainable Development | United Nations](#)

² [Paris Agreement – United Nations Convention Framework on Climate Changes | European Union](#)

³ [National Strategy for the Sustainable Development of Romania 2030](#)

⁴ [National Action Plan for the Implementation of the National Strategy for Sustainable Development 2030](#)

⁵ [European Green Pact | European Union](#)

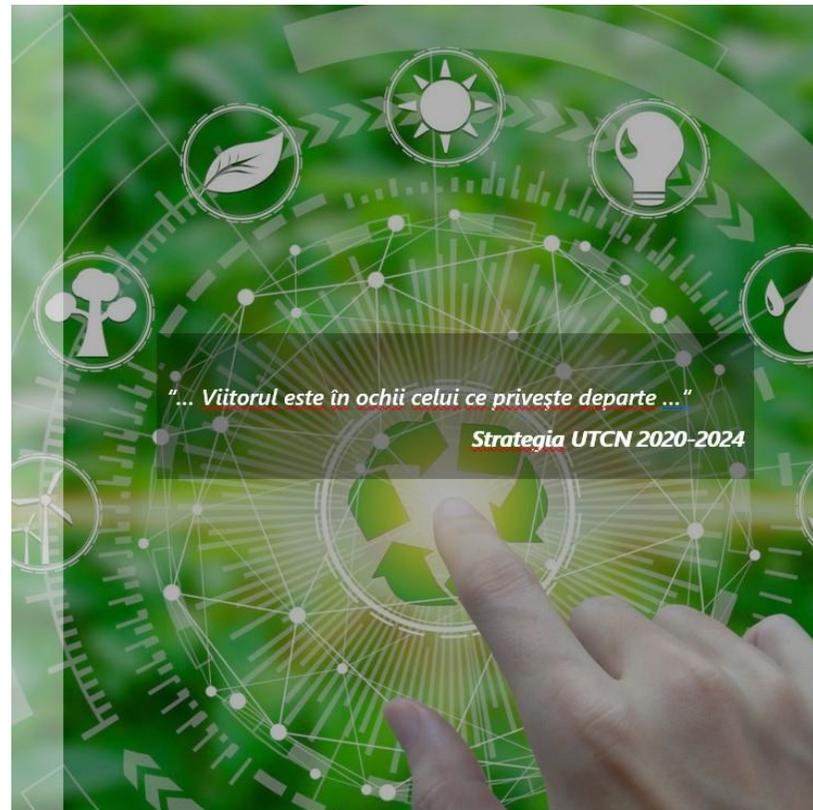
⁶ [A plan to rapidly reduce dependence on Russian fossil fuels and fast forward green transition](#)

The 2030 Agenda for Sustainable Development, adopted by all United Nations member states in 2015, provides a common plan for peace and prosperity for people and planet, now and in the future. At its heart are the 17 Sustainable Development Goals (SDGs), which represent an urgent call to action from all countries - developed and developing - in a global partnership. Thus, it was agreed that the elimination of poverty and other deprivations must be convergent with various strategies that improve health and education, reduce inequality and stimulate economic growth, while addressing climate change and contributing to environmental conservation.

Higher education did not play a significant role in the original Millennium Sustainable Development Goals (SDGs) for the period 2000 – 2015. But this changed profoundly with the definition of the SDGs for the period 2015 – 2030, so now universities everywhere are interested in achieving these ambitious goals. The university as an institution has a long history, starting as an educational institution, later assuming the function of knowledge creation (research) and more recently the so-called third mission of active engagement in society, thus having the role of contributing to the development of society.

„Sustainable Development represents, in the Romanian context, the desire to achieve a balance, a synthesis between the aspirations of the free-born citizen, the society on which it depends and through which it is defined, and the context that allows self-realization. This balance starts from man, the central actor who seeks an individual balance and favorable conditions to achieve it. The favorable conditions are influenced by the society that must support and motivate him and by the environment through which he finds himself and can find his balance. The role of the state in the context of sustainable development is to help achieve this balance, not only for citizens now, but also for future generations.“

The national strategy for sustainable development of Romania 2030



In this context, the Technical University of Cluj-Napoca, like many other universities in the country, but as the main initiator in the field, is facing both major challenges and real opportunities for sustainable development, both of which, however, presuppose an approach pragmatic, realistic, focused on the real needs of the regional and national socio-economic environment, by orienting the entire educational, scientific research and innovation process towards this requirement.

The Technical University of Cluj-Napoca is an active partner in the national and international academic community and has a continuously involved presence in the local and regional community. The purpose of this report is to highlight the involvement and impact in society of the Technical University of Cluj-Napoca in achieving the Sustainable Development Goals, including examples of initiatives, events and projects that provide impact from the perspective of the 17 sustainable development goals.



SYNTHESIS

- [Strategic plan for sustainable development](#) - Technical University of Cluj-Napoca 2022- 2030(v0.9)
- [Strategic Plan on gender equality 2022-2025](#), [Digitalization strategy 2022-2030](#)
[Climate action Plan](#), [Energy policy](#)
- [ECampus](#) full functional for 20000 daily users(Elearning and interaction)
- [CloudIT](#) operational
- 1000 laptops
- 420 Grants
- 91 Courses that addresses concepts related to sustainable development
- 250 active partnerships
- UIGreenMetric application
- 1943 articles from Scopus on Sustainable development goals with 12067 citations

GOAL 1. NO PVERTY



This objective aims at how universities address the problem through all their actions and initiatives, having a direct role in reducing the degree of poverty in their own community, both through quality education and through concrete material support, thus reducing the degree of intergenerational poverty.

UTCN considers it a priority to support the smooth running of the educational process and the formation of skills and competencies needed on the labor market, thus through its partnerships it has achieved the continuous provision of a set of scholarships that reward excellence and creativity.

Date	Initiative/Event/Project
permanent	Center CCOC - The Open University project offers career counselling and guidance (Career Kit brochure, Open Day, UTCN Caravan in high schools, 'Freshers' Week)
permanent	CESTI Center – Programe remediale /Remedial programmes for various diciplines
permanent	CESTI Center – Programe de dezvoltare personală / Personal developmnt programmes
permanent	Societatea antreprenorială studențească /The Entrepreneurial society from Technical University of Cluj Napoca (SAS) organizes events to support entrepreneurial initiatives and innovative technological development ideas (Demoday , Prototype Challenge)
permanent	testul de admitere/Admisiion Test Simulation
permanent	Acțiuni de prezentare a Facultăților în comunități diverse – event Viitor inginer
permanent	UTCN and JAR Romania- grant Competition- Proiecte antreprenoriale
permanent	Cursuri psihooedagogice/ Psihopedagogical Lectures
permanent	Cursuri de limbi străine / Foreign languages optional lectures
permanent	Electrosummer – summer school for pupils and students from disadvanged regions
permanent	Roberto Roca Grants
permanent	Robert Bosch Grants
permanentt	Premierea excelenței Seismic Design Competition
2021	ANIS Grants for education offered to teaching staff that offerts a curriculum adapted to new technologies
2021	Fond suplimentar de burse și laptopuri pentru studenți
2021,2022	PAVING: Advanced Practice for Engineering Career Success in partnership with the industry, the project of integration into mentored practical activities of final year students
2021	Kick off your STEM career - mentoring programme with Emerson Cluj

2021	European Summer University – Cluj- Napoca- ESU
2021,2022	Summer school Guhring NX-CAD inginerie mecanică
2021	Grants Accenture Industry X shape your future join student tech space
2021	Campaign BT awards for TUCN students
2021	Laptop campaign from TUCN

GOAL 3. GOOD HEALTH AND WELL BEING (283 papers in Scopus 2017-2021)

3 GOOD HEALTH AND WELL-BEING



Ensuring a healthy life and promoting well-being, regardless of age, is an essential component of sustainable development, which can be addressed both through the correct identification of various diseases and through the implementation of intelligent solutions capable of increasing the degree of physical or mental comfort, respectively to monitor or maintain a certain level of health.

UTCN has remarkable results in this field through its presence in a series of international research projects, through the implementation of practical solutions adapted to certain needs in the CESTER Robotics Research Center and through continuous monitoring of the health status of community members.

Date	Initiative/Event/Project
permanent	Centrul de cercetare în Robotică CESTER , with health applications
permanent	Innovation Hackaton e-Mental Health Hackathon
permanent	UTCN Cross with prizes and public recognition of the winners at the Cluj Youth Gala
permanent	<i>Campus smoke-free policy</i>
2021,2022	ReMINDe – intelligent robotic companion for activities intended for patients with chronic dementia
2021,2022	Coordinator of international project AAL H2H Care - social robots for elderly care
2021,2022	Partner in international project AAL Remember Me - digital asistent to prevent and detect the cognitive decline and promoting social occlusion
2021,2022	Partner in international project Wisdom of Age – digital platform for knowledge trasfer
2021	On line atelier for 3D printing technologies with applicability in health diagnostic and patient moitoring
2021	Online competition for ideas and projects HealthTech next generation
2021	Students mental health Study
2021	ESCOUNIV counselling services for students
2021	New multisport park UTCN

GOAL 4. QUALITY EDUCATION (70 papers in Scopus 2017-2021)



Quality education is essential for sustainable development, being an area in which universities excel. Inclusive and equitable education supports the addressing of various challenges specific to sustainable development, is a mechanism for reducing inequities and improving the quality of life.

UTCN aims to support the increase of the quality of life and the level of well-being through support measures to ensure lifelong learning (LLL-lifelong learning), by providing access to various types of educational resources, courses and scientific events.

Date	Initiative/Event/Project
permanent	UTCN member of EUT+ (European University of Technology)
permanent	Institutul de Inteligență Artificială al UTCN – IA-UTCN (evoluție)
permanent	CESTI - Study and learning Center
permanent	Platforma DECIDFR oferă cursuri postuniversitare , de formare și dezvoltare, de conversie profesională in model elearning
permanent	Platforma E-Campus for digitalisation of educational processes
permanent	Actualizarea continuă a fondului Resurse bibliografice digitale din Biblioteca UTCN
permanent	Acces ANELIS la baze de date internaționale pentru resurse științifice
permanent	Google Hub Tech – tech hub for Google technologies
permanent	Zilele Carierei /Career dayn in Technical University of Cluj Napoca
permanent	UTCN partener academic alături de RAF și Fundația Transylvania Institute of Technology in cadrul Innovation Lab Hackaton
permanent	Demo Day entrepreneurial ideas supported by business plans through the Student Entrepreneurial Society - UTCN
permanent	Microsoft Learn – Microsoft tehnologia training program for specialisation and certification
permanent	TUCN Invention fair ProINVENT
permanent	DIGILENT - Digital design club – competiție de proiectare și programare (Programming contest at 12 edition)
2021	Programul FUTURE – build with passion, skills development program for the labor market
2021,2022	ANTREDOC : Entrepreneurial skills and research excellence in doctoral and postdoctoral programmes (Proiect finanțat ESF)
2021,2022	PAVING: Advanced Practice for Engineering Career Success , in partnership with the industry, the integration project of final year students in mentored practical activities
2021	Competition Bosch Future Mobility
2021	UTCN in partnership with DptIT- expozitie si jurizare proiecte
2021	Competition Polihack la a 11 ediție
2020	Future Industry 4.0 – Continental AG Sibiu perspective- webinar for TUCN students

2021	Mentoring program- Kick off your STEM career - Emerson Cluj
2021	Competition Blockathlon with SpherixAcceleratorand Cluj Startups for innovation through digital solutions for the public sector
2021	Model Based Academy -Porsche Romania
2021	Romania's digital future – online eveniment in partnership with Transilvania digital innovation hub
2021	Seak-Peak webinarii tehnice SILCOTUB for TUCN students
2021	Bosch Engineering bootcamp -mentored internship programes
2021	Internship STRATEC Buid your Robot
2021	Like a Bosch experience - Bosch month at Technical University Cluj
2021	Tenaris Company Month
2021,2022	Noaptea muzeelor
2021	InnoEUT - Innovative University of Technology- project in EUT+ for education innovation
2021	Sustenabilitaty Statement present the new educational model through sustainable perspective

GOAL 7. CLEAN AND AFFORDABLE ENERGY (544 papers in Scopus 2017-2021)



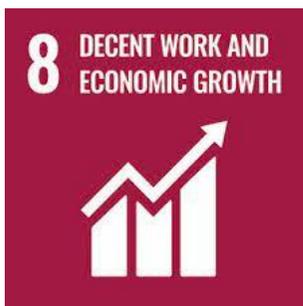
This objective proposes global, equitable access to safe, sustainable energy in an accessible manner, being essential because modern energy supports the other sustainable development objectives.

UTCN provides education and research conditions in modern spaces, in compliance with the latest energy efficiency standards.

The university organizes a series of support activities such as specialized master's courses, postgraduate specialization courses, workshops with a focus on energy, resources and the environment.

Date	Initiative/Event/Project
permanent	ENTREC Research Center
2021,2022	Internațional project Re-Cognition
2021,2022	Internațional project SMEmPower- - A holistic framework for Empowering SME's capacity to increase their energy efficiency
2021,2022	Internațional project GEAR-AT-SME
2021,2022	Internațional project BRIGHT
2021,2022	Internațional project Olga – green holistic airport
2021	Internațional project URBIVEL parteneriat Porsche Engineering Romania – advanced technologies for urban intelligent vehicles
2020	Internațional project MicroInv with Technologic Napoca Software- technologies for regenerable energy sources
2020	Internațional Net4SENERGY – cross border network of energy sustainable universities
2021,2022	Internațional project GeoSES – Space Emergency System HU-SK-RO-UA cross border region for monitoring dangerous geo processes
2021	Internațional project EnyMSW - energy recovery from municipal solid waste by thermal conversion technologies
2021	CRIMIGE - Centru regional de instruire și monitorizare a impactului instalațiilor electrice asupra mediului
2021	Emobi-City- creșterea eficienței energetice prin promovarea mobilității electrice în orașe
2021	International project PANDA -Carbon care action of a European research project on electrified vehicles
2021	HORESEC Holistica impactului surselor regenerabile de energie asupra mediului și climei
2021	PANDA Powerfull advanced N-Level Digitalization Arhitecture for models of electrified vehicles and their components
2021	Net4Senergy crossborder network for energetic sustainable universities
2021	Postgraduate Course Eficientă și sustenabilitate pentru manageri energetici /Energy Managers
2021	Postgraduate Course Tehnici de analiză energetică / and practices for near zero energy consumption buildings (nZEB)
2021	Postgraduate Course Audit energetic pentru clădiri/Energetic audit for buildings
2021,2022	Master Clădiri Verzi/Green buildings
2021,2022	Master Energii Regenerabile/Renewable energies

GOAL 8. DECENT WORK AND ECONOMIC GROWTH (73 papers in Scopus 2017-2021)



Decent work in safe and stable conditions is a vital component in eradicating poverty and maintaining good health. Universities as employers must provide and educate in such a perspective, and as innovators they can identify advanced and fair ways of working.

UTCN is a promoter of the idea of economic growth through decent work in optimal conditions and ensuring a healthy and safe context.

Date	Initiative/Event/Project
permanent	Centrul CCOC - Career counseling Center
2021	Public salary policies onsite ,
2021	Technical University Cluj Napoca Charter - mentions the aspects of non-discrimination, inclusion, equity and equality at the level of all processes in the University
2021, 2022	Strategia egalității de gen / Gender equality strategy mentions status and University policies for 2022-2025

GOAL 9. INDUSTRY, INNOVATION, INFRASTRUCTURE (343 papers in Scopus 2017-2021)



This objective focuses on providing an infrastructure capable of supporting sustainable development. Economic growth and the continued provision of health services, education and a decent standard of living are based on a quality infrastructure, and innovation, science and technology are crucial for the development of a sustainable infrastructure.

UTCN considers research essential in the analysis and solution of global problems, which is why it provides mechanisms to stimulate research and publish results with maximum impact and visibility.

Date	Initiative/Event/Project
2021,2022	Inno-EUT+ Innovative European University of Technology – growing the innovative and entrepreneurial capacity of the university
2021	CloudUT- institutional project to support research activities using high-performance hardware/software support
2021	COOLDC – data centers cooling- novel techniques for optimal thermal flexibility shifting and on demand waste heat reuse
2021	Interreg Danube Transnational Programme: Transnational Cooperation to transform knowledge into marketable products and services for the Danubian sustainable society of tomorrow
2021	Proiecte naționale /National research project with industry (130 proiecte)
2021	BIECO- building trust in ecosystems and ecosystem components
2021	eDREAM enabling new demand response advanced, market oriented and secure technologies solutions and bussiness models
2021	S2RJU - Flexible medium voltage DC electric railway systems
2021	AMATUC – DICOMI -Directional Composites through Manufacturing Innovation
2021	Start-ups Manuscrito , Shipdmed , Bway-education

GOAL 10. REDUCED INEQUALITIES



The reduction of inequalities is reflected in every aspect of sustainability, through the way of meeting the objectives, offering a broader perspective than the objective of gender equality, which refers only to gender inequities.

UTCN reflects this objective in all its processes, constantly contributing through policies and actions in this regard

Date	Initiative/Event/Project
permanent	Centrul CCOC - caree counseling Center
permanent	Student associations and societies OSUT , BEST ,ASFIC, ASCUT, AStA
permanent	Common actions and projects as member in EUT+
permanent	Guaranteeing the rights of national minorities and prohibiting any form of discrimination UTCN Charter -
permanent	University Grants various programmes
permanent	Services and facilities for people with disabilities, alternative assessment methods, mentoring
2021	FutureProof - TELEKOM for exploring career opportunities
2022	Planul strategic privind egalitatea de gen / Gender strategic plan 2022-2025
2022	Plan strategic pentru digitalizare / Digitalisation strategy 2022-2030

GOAL 11. SUSTAINABLE CITIES AND COMMUNITIES (195 papers in Scopus)



The objective promotes sustainable cities and communities, reducing the negative impact of cities on the environment, supporting an inclusive, safe, resilient and sustainable context for cities and their communities.

UTCN carries out the promotion and protection of the tangible cultural heritage in the spaces in which it operates, offering open access and ensuring their good conservation by identifying the necessary resources. Through the projects in which it is involved, the University aims to support the intangible cultural heritage by investing in projects and events that promotes this heritage, it also ensures the promotion and support of a sustainable development of the cities where the material heritage resides.

Date	Initiative/Event/Project
permanent	ALUMNI-UTCN events
permanent	Clubului Cultural Studentesc/Students Cultural Club
2021	IDArt - Development of complex methodologies regarding the attribution and authentication of medieval and pre-modern pictures from the national heritage
2021	VART - Scientific investigation and exploitation of ornamental Dacian parade shields using virtual/augmented reality techniques
2021	RoCultura – Biserica lui Horea – Horea's Church - a heritage for the future. Valorization of an architectural monument from the 18th century through virtual reality
2021	RoCultura -Tehnici inovative în valorificarea patrimoniului cultural/.Innovative techniques in the valorization of cultural heritage. The icons from the Sebeş Valley from the collection of the Ethnographic Museum of Transylvania
2021	EIB accord European Investition Bank pentru Investiții Transformaționale with Technical University of Cluj Napoca
2021	Urban regeneration imobilului de patrimoniu Bistrița 8 -UTCN
2021,2022	Project Energie verde Cluj /GreenEnergy in Cluj in partnership with Cluj Napoca city Hall

GOAL 13. CLIMATE ACTION (117 papers in Scopus 2017-2021)



Climate change affects every part of society in every country. Universities must be the promoters of actions to reduce the impact generated by climate change, acting in such a way as to address these approaches through research, education and the permanent reduction of the carbon footprint.

UTCN recognizes the importance of a unified, effective and efficient approach to this issue, which is why it has designed policies and action plans in this regard.

Date	Initiative/Event/Project
2021	Declarația – angajament de sustenabilitate - recognizes the determining role of the University in the community and society in analyzing the challenges generated by climate change and sustainability. It is proposed to create a framework in which all university students will graduate with a good understanding of the issue but also with a minimum of expertise in identifying the souls for future generations
2021	Plan de acțiune Climatică/Climate Action Plan - mentions effective investments to increase energy efficiency and reduce CO2 emissions
2021	Politica Energetică/Energy policy - proposes concrete actions that can be monitored and quantified resulting in the reduction of energy consumption and the realization and periodic updating of a PACED plan

GOAL 14. LIFE BELOW WATER



This objective reflects how universities are involved in various actions to protect and extend aquatic systems.

UTCN is aware of this objective, being a member of an innovative European project, which develops automatic intervention solutions in marine environments.

Date	Initiative/Event/Project
2021,2022	SEACLEAR - Search, identificAction and Collection of marine Litter with Autonomous Robots

GOAL 15. LIFE ON LAND



Maintaining biodiversity is a challenge in the face of climate change and the increasing degree of damage to nature through human intervention. Universities must contribute to the sustainability of biodiversity at the level of Campus and external ecosystems.

UTCN has initiated various observation projects by collecting data and processing them to assess potential risks.

Date	Initiative/Event/Project
2021,2022	International project GOLDENEYE - Earth observation and Earth GNSS data acquisition and processing platform for safe, sustainable and cost-efficient mining operations
2021	Eco2Pac - project to follow the process of collection and recycling of waste from TUCN
2021	GreenTOP Agrobiodiversity – Structural Funds Project
2021,2022	International project- GeoSES space emergency system towards monitoring of dangerous natural processes

GOAL 17. PARTNERSHIPS FOR THE GOALS



This goal reflects the fact that partnerships are necessary to ensure sustainable development goals. Partnerships designed for common goals are stronger if they are made between governments, industries and civil society. This objective includes various elements such as: financial and development support, public policies, access and development of innovative technologies, development of various resources addressing a whole palette of systemic aspects.

Governmental and european partnerships
Romanian digitalisation authority- Cadrul strategic național pe Inteligență Artificială/ National strategic framework for Artificial Intelligence
European University of Technology EUT+
Consiliul Național al transformării digitale
Autoritatea pentru digitalizarea României/ Romanian digitalisation authority/
Primăria Municipiului Cluj-Napoca. Cluj-Napoca City Hall
NGO's and companies partnerships
Cluster Cluj IT
Education Cluster - C-EDU
Innovation hub - DIH4S
Innovation hub - Digital Innivation HUB
Cluster Economic Regional Electrotehnic - ETREC
Cluster Materiale Avanced materials for Microandi Nanotehnologies - ADMATECH
Cluster Drifmat - Distributed Research Infrastructure for Materials, Applications and Future Technologies
Cluster Pro-nZEB
Cluster SpaceTech Transilvania
Cluster Ecoinovativ - CLEMS
Cluster Transnational for renewable energy - TREC
Bosch, Emerson, Siemens, Energobit, Banca Transilvania, BCR, ARKK, Nagarro, Indeco, Eaton, Intelactsoft, EVozone, UACE
JAR Romania
DpIT
Innovation Labs

Name	Scholarly Output	FWCI	Citation Count
SDG 1: No Poverty	2	0.41	39
SDG 2: Zero Hunger	21	0.49	66
SDG 3: Good Health and Well-being	283	1.36	2537
SDG 4: Quality Education	70	0.63	222
SDG 5: Gender Equality	2	0.08	3
SDG 6: Clean Water and Sanitation	85	0.85	481
SDG 7: Affordable and Clean Energy	544	1.07	3486
SDG 8: Decent Work and Economic Growth	73	0.79	477
SDG 9: Industry, Innovation and Infrastructure	343	1	2013
SDG 10: Reduced Inequality	10	0.19	11
SDG 11: Sustainable Cities and Communities	195	0.91	925
SDG 12: Responsible Consumption and Production	154	1.02	1064
SDG 13: Climate Action	117	0.87	527
SDG 14: Life Below Water	9	0.83	75
SDG 15: Life on Land	31	0.71	138
SDG 16: Peace, Justice and Strong Institutions	4	0.43	3
Total 2017-2021	1943		12067

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The information in this report is taken from the Rector's Report 2021 (accessible at the address <https://www.utcluj.ro/universitatea/raportul-rectorului/>) and from the Newsletters regarding the activity of the Board of Administration, and the statistical bibliometric data are taken from ScopusSciVal (<https://www.scival.com/home>). These data represent the activities of the community of teaching staff, researchers and students within the Cluj-Napoca Technical University and reflect their alignment with the Sustainable Development Goals.

