

12

RESPONSIBLE CONSUMPTION AND PRODUCTION



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NUMBER OF PUBLICATIONS & THESES

21



NUMBER OF PROJECTS

77



NUMBER OF EVENTS

18



NUMBER OF COURSES OFFERED

130



NUMBER OF COLLABORATION

3



NUMBER OF AWARDS

5

SDG 12 RESPONSIBLE CONSUMPTION AND PRODUCTION

Ensure sustainable consumption and production patterns

Targets and Indicators

12.1 Implement the 10-year framework of programmes on sustainable consumption and production, all countries taking action, with developed countries taking the lead, taking into account the development and capabilities of developing countries

12.2 By 2030, achieve the sustainable management and efficient use of natural resources

12.3 By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses

12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment

12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse

12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle

12.7 Promote public procurement practices that are sustainable, in accordance with national policies and priorities

12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature

12.A Support developing countries to strengthen their scientific and technological capacity to move towards more sustainable patterns of consumption and production

12.B Develop and implement tools to monitor sustainable development impacts for sustainable tourism that creates jobs and promotes local culture and products

12.C Rationalize inefficient fossil-fuel subsidies that encourage wasteful consumption by removing market distortions, in accordance with national circumstances, including by restructuring taxation and phasing out those harmful subsidies, where they exist, to reflect their environmental impacts, taking fully into account the specific needs and conditions of developing countries and minimizing the possible adverse impacts on their development in a manner that protects the poor and the affected communities

Courses, Theses, Publications

In line with the targets of SDG 12, Environmental, Social, and Governance Investment Analysis course (ECON 470) focuses on socially responsible investments, fundamentals of sustainable finance and ethical investment. It equips students to build a bridge between sustainable investment, green finance, and corporate financial performance, and to develop a linkage between corporate social responsibility (CSR) and corporate financial performance.

TEDU 102 Service Learning course introduces service learning to students through theories, practices, community-engaged projects, NGO collaborations, and field activities. The course aims to support students' leadership and effective communication skills and raise their awareness regarding Sustainable Development Goals. As part of the course, students plan a group project, write a final project report, prepare a project poster, and present it at the "End of Semester Service Learning Fest".



A poster sample prepared for TEDU 102 Service Learning

In addition to the courses given, academic publications of academic staff on sustainable investment, governments' role in enhancing green digital finance and environmental cost of forced migration are also effective in disseminating SDG 12 targets.

Events - Activities

The Award Ceremony of the Sustainable Campus Projects Competition, organized to engage all TEDU members in sustainability efforts, generate ideas for achieving a sustainable campus, and implement these ideas to work towards the goal of a 'Sustainable TEDU,' took place with the participation of TEDU's Rector, the Sustainability Committee, faculty, and students. During the ceremony, where the top three low-budget projects feasible for campus implemented were introduced and the winners received their awards. The branch manager of the Ministry of Environment, Urbanization and Climate Change, Ms. Ebru Dilber Çufadar, also attended the event and gave a presentation on "Zero Waste".



Event Link: <https://www.tedu.edu.tr/gundemdeneler-var/surdurulebilir-kampus-projeleri-yarismasi-odul-toreni>

The Culture and Art Community organized a clothing-recycling event as a part of the SanaTEDU festival. The event highlights the importance of sustainable practices in the fashion industry, aiming to create more products with less environmental impact.



Collaboration, Projects, Awards

At TED University, in addition to the ongoing projects currently targeting Responsible Consumption and Production, 11 additional projects were launched in 2023, bringing the total number of projects in this field to 77. The projects are carried out in various academic disciplines, such as Educational Sciences, Economics, Computer Engineering, Software Engineering, Civil Engineering, and Mechanical Engineering, and funded by esteemed institutions such as the Scientific and Technological Research Council of Türkiye (TÜBİTAK) and the European Cooperation in Science and Technology-COST Association.

Integrating sustainability into STEM education, AI-powered human-centered robot interactions for smart manufacturing, multi-scaled bio-composite fabrication, and manufacturing 3D printing and engraving machines with recycled plastic chassis are among the key topics of these projects.

TED University and its members have received various awards and certificates for the projects and studies carried out in line with the SDG 12 target, both at the individual and institutional levels. Interior Architecture and Environmental Design student of TEDU, Elif Çiçek, won the Runner Up award in Vectorworks Design Scholarship 2022 with her "Go Green" project, which she designed within the scope of the TINT 102 Studio 2 course.



Waste Management at TEDU

TED University has received the 'Zero Waste Certificate' issued by the Ministry of Environment, Urbanization and Climate Change with the Zero Waste Management System.



<https://sustainable.tedu.edu.tr/en/whats-happening-tedu/ted-university-has-been-awarded-zero-waste-certificate-ministry-environment>

In addition, TEDU signed a contract for collecting waste vegetable oil with a private firm in 2023.

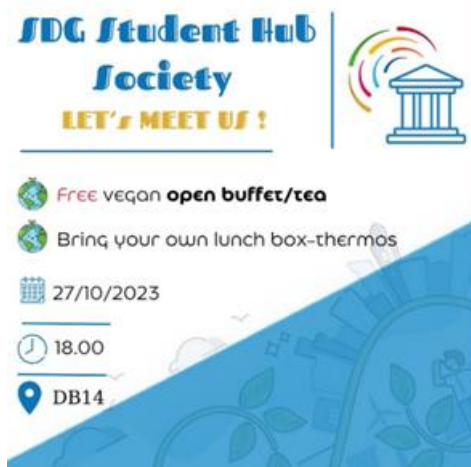
Come on TEDU, Join the Transformation!



Water purification devices are installed at 26 points across TED University campus to serve the entire TEDU community. In addition to reducing plastic waste, these stations provide free drinking water to all members. Going plastic bottle-free contributes to reducing single-use plastics and promotes more sustainable consumption habits.

SDG Student Hub Society-Free Vegan Open Buffet

The TEDU SDG Student Hub Community organized a meeting to discuss their PAT activities and their future plans. The meeting featured a vegan/vegetarian open buffet and tea. Guests were asked to bring their lunch boxes and thermos to raise awareness about reducing food waste and supporting environmentally friendly consumption.



Campus

* Waste that is classified as hazardous waste (laboratory chemical packaging, paint boxes, toner, cartridges, waste batteries) generated in our university laboratories and workshops are carefully collected by hygiene and cleaning personnel, brought to the waste area and delivered to the contracted waste company. Waste batteries are delivered to the manufacturing company.

* In order to reduce plastic consumption on our campus;

- Glass bottles with the TED University logo were made and offered for use by employees and students.

- Carffs and cups made of 100% recycled glass were offered for use in all event areas, conference and meeting halls.

- With a total of 44 purified water fountains located on the campus, the use of plastic bottles is tried to be kept to a minimum.



*Sustainable products are preferred to minimize the use of disposable products. Secure print feature has been developed and put into operation in network printers for the printing processes of papers included in disposable products. To establish a healthier, more sustainable and higher standard of living, to minimize the environmental impacts of the products used, to contribute to a circular society, 85 paper towels and 148 toilet paper dispensers in our campus have been replaced with Essity TORK dispensers in order to produce less plastic and packaging, smaller carbon footprint and less waste. Products of this company that can be used in the cleaning and hygiene process are preferred.

* It is aimed to ensure that recyclable wastes are delivered to the recycling company and recycled and/or that all processes are carried out by the recycling company until their final disposal, and that this process is carried out in accordance with the laws, the Zero Waste Regulation published in the Official Gazette dated 12.07.2019 and numbered 30829 of the Ministry of Environment, Urbanization and Climate Change, and the conditions sought in the Packaging Waste Control Regulation published in the Official Gazette dated 26.06.2021 and numbered 31523.

Within the scope of the Zero Waste Project, the recyclable wastes produced by the University are delivered to the recycling company and recycled and/or that all processes are carried out by the recycling company until their final disposal, and that this process is carried out within the framework of the protection of the environment and sustainable waste management within the scope of the Zero Waste Regulation.

* Promotional products used in events held inside or outside our campus are generally selected from products that contain sustainable products in their remanufactured raw materials (notebooks, natural pens, raw cloth and clutch bags made from recycled products, etc.).

During the purchasing process of the products with the suppliers of these products, offers are made from this group of products that are determined upon the information that the promotional products will be selected from sustainable products. Products that include sustainable expressions and visuals as the design to be placed on the promotional products are provided.

* A mutual agreement has been signed with Mertoğulları Recycling Company in order to ensure that all processes are carried out until the measurement of recyclable wastes within the campus, delivery to the recycling company, recycling and/or final disposal by the recycling company, and to ensure that this process is carried out in accordance with the laws, the Zero Waste Regulation published in the Official Gazette dated 12.07.2019 and numbered 30829 of the Ministry of Environment, Urbanization and Climate Change, and the conditions sought in the Packaging Waste Control Regulation published in the Official Gazette dated 26.06.2021 and numbered 31523, and the activities for the process are continuing.