KÜTAHYA DUMLUPINAR UNIVERSITY

SUSTAINABILITY REPORT

2024-2025

MESSAGE FROM THE RECTOR

Kütahya Dumlupınar University, which was established in 1992, is a university that is aware of its responsibilities towards the environment and society. This awareness can be observed in all activities within our university's institutional values and quality policies. In particular, the activities we carry out in line with the lifelong learning policy, social university policy, and education and environmentally friendly campus policy clearly demonstrate the importance we attach to society and the environment.

Kütahya Dumlupınar University presents all the work it has done to contribute to sustainability to its stakeholders through its sustainability report. Our first sustainability report was prepared in 2020 and presented to stakeholders. “Kütahya Dumlupınar University Sustainability Report 2024-2025” is the fifth sustainability report of our university. This report presents the sustainability efforts of Kütahya Dumlupınar University, which carries out its activities within the framework of sustainability policies, and the results of these efforts. In this report, the activities carried out within our university have been associated with the UN Sustainable Development Goals in terms of their impact on the environment and society. As mentioned earlier, we plan to present Kütahya Dumlupınar University's sustainability contribution to our stakeholders through the sustainability reports we will prepare in the following years.

I would like to express my sincere gratitude to the DPU GreenMetric Team, the DPU Quality Coordination Office, the Research Dean’s Office, and all our stakeholders for their valuable contributions during the preparation of this report.

Professor Doctor Süleyman KIZILTOPRAK
Kütahya Dumlupınar University
Rector

ABOUT THE SUSTAINABILITY REPORT

This report has been meticulously prepared by the DPU GreenMetric Team to present Kütahya Dumlupınar University's sustainability activities and the progress achieved within this scope for the 2024–2025 period to its stakeholders. It was developed with the contribution of data and support provided by relevant units and personnel across the university and consists of six main sections that highlight different dimensions of sustainability at Kütahya Dumlupınar University: Setting and Infrastructure, Energy and Climate Change, Waste, Water, Transportation, and Education & Research.

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Kütahya, 2025

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[1] Setting and Infrastructure (SI)

[1.1] Type of Higher Education Institution

Kütahya Dumlupınar University is a comprehensive institution that offers a wide range of academic programs across nearly all major fields of study, including engineering, natural sciences, social sciences, humanities, health sciences, education, and fine arts. The university's academic structure, which integrates multidisciplinary teaching, advanced research, and community-oriented initiatives, fully aligns with the defining characteristics of comprehensive higher education institutions. Its broad academic scope and institutional capacity reflect a holistic approach to education and research, firmly positioning Kütahya Dumlupınar University within the category of comprehensive universities.

[1.2] Climate

Kütahya Dumlupınar University is situated in Kütahya, a province classified as semi-arid according to the Köppen-Geiger climate classification, which is also used in sustainability assessments, such as the UI GreenMetric. This climate is characterized by hot, dry summers and cold, moderately wet winters, with low annual precipitation compared to coastal areas of Türkiye. The semi-arid conditions shape the region's vegetation patterns, water management practices, and the sustainability strategies implemented by the university.

[1.3] Number of Campus Sites

	Kütahya Dumlupınar University Türkiye

	Kütahya Dumlupınar University Türkiye
	Altıntaş Vocational School

	Çavdarhisar Vocational School
	Domaniç Hayme Ana Vocational School

	Dumlupınar Vocational School
	Emet Vocational School

	Gediz Vocational School
	Hisarcık Vocational School

	Pazarlar Vocational School
	Simav Vocational School

	Simav Faculty of Technology
	Şaphane Vocational School

	Tavşanlı Vocational School
	Tavşanlı Faculty of Applied Sciences

Kütahya Academy of Economics and Administrative Sciences, which forms the core of Kütahya Dumlupınar University, was established on October 12, 1974, under the name of Kütahya School of Management Sciences, affiliated to Eskişehir Academy of Economic and Commercial Sciences.

The college, which started its education in a two-storey building near the Kütahya Zafer Square on December 4, 1974 and is now affiliated with the Presidency of the Turkish Manuscripts Institution, was upgraded to a faculty by the Academy on February 15, 1979 and renamed the Kütahya Faculty of

Management Sciences. With the Decree Law No. 41 on 20 July 1982, the institution was organized as Kütahya School of Administrative Sciences, affiliated to Anadolu University Faculty of Economics and Administrative Sciences. In 1987, it was named Kütahya Faculty of Economics and Administrative Sciences by law.

Dumlupınar University was separated from Anadolu University by law on 11 July 1992. In addition to Kütahya Faculty of Economics and Administrative Sciences and Kütahya Vocational School, the newly established Faculty of Arts and Sciences, Faculty of Engineering, Simav Technical Education Faculty, Bilecik Faculty of Economics and Administrative Sciences, Institute of Social Sciences and Institute of Science and Technology were affiliated to Dumlupınar University.

Faculty of Fine Arts ; One year after the establishment of the university, which continued its education in the building in which it was founded while affiliated with Anadolu University in the 1993-94 academic year, a vocational school was opened in the districts of Tavşanlı and Gediz, with the decision taken by the Higher Education Council (YÖK). In 1994, vocational schools affiliated to Dumlupınar University were established in 10 districts of Kütahya and 4 districts of Bilecik. The construction of Evliya Çelebi Campus, which is the largest and central campus of the university, started in 1995. Three years later, the Faculty of Arts and Sciences and the Faculty of Engineering, and then the Faculty of Economics and Administrative Sciences moved to this campus. The first rectorate building in the campus has been arranged as the building where the Dean's Office of the Faculty of Economics and Administrative Sciences is located today.

Faculty of Engineering; With the establishment of Bilecik University in 2007, Bilecik Faculty of Economics and Administrative Sciences and vocational schools in Bilecik's Gölpazarı, Osmaneli, Pazaryeri and Söğüt districts were separated from Dumlupınar University and joined to Bilecik Şeyh Edebali University with its current name.

After the Faculty of Medicine, Simav Technology Faculty established instead of Simav Technical Sciences Faculty which was closed in 2009; in 2011 The Faculty of Dentistry; in 2012 The Faculties of Theology and Architecture, the Institute of Educational Sciences and the Tavşanlı Tourism Management and Hotel Management and Foreign Languages Schools were established connecting to Dumlupınar University Rectorate.

With the law numbered 7141, which changed the name of the university to Kütahya Dumlupınar University in 2018, the faculties of Medicine, Dentistry and Health Sciences, Health Sciences Institute, Gediz Health Services Vocational School and Simav Health Services Vocational School were transferred to the newly established Kütahya Health Sciences University.

In 2019, Tavşanlı Tourism and Hotel Management School was transformed into Tavşanlı Faculty of Applied Sciences, School of Applied Sciences was transformed into Kütahya Faculty of Applied Sciences, and in 2020, Physical Education and Sports School was transformed into Faculty of Sports Sciences.

Kütahya Dumlupınar University Campuses:

1. Evliya Çelebi Campus
2. Altıntaş Vocational School
3. Çavdarhisar Vocational School
4. Domaniç Hayme Ana Vocational School
5. Dumlupınar Vocational School
6. Emet Meslek Vocational School

7. Gediz Vocational School
8. Hisarcık Vocational School
9. Pazarlar Vocational School
10. Simav Vocational School - Simav Faculty of Technology
11. Şaphane Vocational School
12. Tavşanlı Vocational School - Tavşanlı Faculty of Applied Sciences

Altıntaş Vocational School; The fact that the Vocational School is close to the surrounding provinces provides an important advantage for the students. The vocational school continues its educational activities with the departments of Postal Services, Population and Citizenship, Food Technology, Food Quality Control and Analysis, Laboratory Technology.

Çavdarhisar Vocational School was founded in 1994. The vocational school continues its educational activities with the departments of Tourist Guidance.

Domaniç Hayme Ana Vocational School; The vocational School started its education life in the 1994-1995 academic year in line with the principle of raising qualified manpower in parallel with the developing country's economy and technology. The vocational school continues its educational activities with the departments of Banking and Insurance, Logistics, Social Security and Information Management.

Dumlupınar Vocational School is a higher education institution that provides two-year associate degree education on the basis of formal education in order to meet the need for qualified intermediate staff in various fields such as energy, education and health services in line with the principles and objectives of our country's development plans, and to establish a link between manpower and educational elements. The vocational school continues its educational activities with the departments of Alternative Energy Resources Technology, Child Development and Health Institutions Management programs.

Emet Vocational School ; Our school, which started its educational activities in the 1994-1995 academic year, today, it continues its education and training services under 9 different programs, namely Child Development, Foreign Trade, Business Management, Chemistry, Public Finance, Securities and Capital Markets, Accounting and Tax Applications, Health Institutions Management, Tourism and Hotel Management.Moreover, foreign trade, Chemistry, Finance and Health Institutions and Management programs also have evening education. Our college, which has an open area of 38000 m^2 and a closed area of 3800 m^2, is 100 km away from the center of Kütahya, and transportation can be provided from the Kütahya Central Bus Terminal.

Gediz Vocational School is 3 km away from the district center and with its campus built on an area of 418,000 m^2; It provides its students with a comfortable and peaceful educational environment with its architectural structures that are far from the crowd of the city center and intertwined with nature. In addition, Gediz Vocational School; with its modern sports facility, social facility and library, where sports activities such as football, basketball and tennis are held, it allows its students to have a good time in the campus. KYK Girls' Dormitory with a capacity of 500 students; with its extensive social facilities and the new and modern building, is 150 meters from the classrooms. Our vocational school continues its educational activities with the departments of Justice, Banking and Insurance, Logistics, Computer Programming, Office Management and Executive Assistant, Graphic Design, Occupational Health and Safety, Mechatronics, Health Institutions Management, Medical Laboratory Techniques, Medical Promotion and Marketing.

Hisarcık Vocational School; Our school, which is structured with the understanding of a national and contemporary Vocational School, has taken the responsibility of fulfilling its duties in making our students have a qualified profession and in making our country one of the most advanced and respected countries in the world in all areas of international competition. Our vocational school continues its educational activities with the departments of Banking and Insurance, Public Relations and Promotion, Human Resources Management, Occupational Health and Safety, Logistics, Criminal Execution and Security Services, Land Registry and Cadastre.

Pazarlar Vocational School was opened under the Kütahya Dumlupınar University with the 14.02.1994 and 95-5332 numbered election of the Higher Education Executive Board. In 1994-1995 Education and training started with Fruit-Vegetable Processing and Food Technology programs in education. In the 2020/2021 academic year, Pazarlar Vocational School continues its education with Occupational Health and Safety, Food Technology, Machinery and Construction, Health Institutions Management, Health Information Systems Technician programs.

Simav Vocational School aims to train intermediate manpower that will successfully serve the science, production, trade, industry and technology of our country, with an increasing momentum since its establishment. Our vocational school continues its educational activities with the departments of Electricity, Banking and Insurance, Logistics, Human Resources Management, Local Administrations, Health Tourism Management, Computer Programming, Interior Design, Laboratory Technology, Biomedical Device Technologies and Mechatronics.

Şaphane Vocational school has a 210 m^2 conference hall in the school building for social and cultural meetings and shows, and also a 25 m^2 meeting room in the new service building. Apart from this, students meet their needs by always making use of the movie theater belonging to Şaphane Municipality. The School continues its educational activities with the departments of Public Relations and Publicity, Law Office Management and Executive Assistance, Banking and Insurance, Local Administrations and Social Services.

The aim of Kütahya Dumlupınar University Tavşanlı Vocational School is to train professionals who are qualified and equipped to meet the requirements of the 21st century, in new and important fields of work where it is difficult to find professional staff trained with contemporary approaches in parallel with new technological developments. Our vocational school continues its educational activities with Computer Programming, Internet and Network Technologies, Office Management and Executive Assistant, Foreign Trade, Biomedical Device Technology, Machinery, Map Cadastre, Automotive Technology, Accounting and Tax Applications and Logistics departments.

[1.4] Campus Setting

The campus area is located in a rural area with a high rate of forest cover. Evliya Çelebi Campus, the central campus of Kütahya Dumlupınar University, is situated on an area of over 7,500 decares, located at the 10th kilometer of the Kütahya-Tavşanlı Highway. University rectorship; Graduate Education Institute; Faculty of Education, Faculty of Arts and Sciences, Faculty of Fine Arts, Faculty of Economics and Administrative Sciences, Faculty of Theology, Kütahya Applied Sciences, Faculty of Architecture and Faculty of Engineering; School of Foreign Languages; Social facilities such as Martyr Petty Officer Ömer Halisdemir library, covered Turkish bazaar and guesthouses are located in Evliya Çelebi Campus.

The academic structure of Kütahya Dumlupınar University comprises one institute, eleven faculties, one school, fourteen vocational schools, three departments affiliated with the rectorate, and eighteen research centers. Kütahya is a neighbor to metropolitan cities such as Balıkesir, Bursa, Eskişehir, and

Manisa in terms of its location. Due to its proximity to Eskişehir and Bursa, some university students can spend their weekends in these cities. Student clubs play a vital role in the social life and culture of Kütahya Dumlupınar University. Student clubs strive to raise awareness among university students by organizing regular trips, interviews, and social responsibility projects.

Example of rural campus environment
(Kütahya Dumlupınar University, Türkiye)

Department of Health, Culture and Sports
(Kütahya Dumlupınar University, Türkiye)

Ponds
(Kütahya Dumlupınar University, Türkiye)

Parking Areas
(Kütahya Dumlupınar University, Türkiye)

Parking Areas
(Kütahya Dumlupınar University, Türkiye)

[1.5] Total Campus Area

Area viewed from satellite
(Kütahya Dumlupınar University, Türkiye)

The total campus area and the total campus circumference of Kütahya Dumlupınar University are given.

Total area: 7866913.92 m^2

Total distance/circumference: 12 km

[1.6] Total Campus Ground Floor Area of Buildings

The total campus building ground floor area amounts to 105564 m^2.

[1.7] Total Campus Buildings Area

	
Kütahya Dumlupınar University Rectorate 14690 m^2	Faculty of Fine Arts 44500 m^2
	
Engineering Faculty 26839.02 m^2	Faculty of Economics and Administrative Sciences 35359.03 m^2
	
Faculty of Science and Literature 34697.12 m^2	Central Cafeteria 7467.89 m^2

	
Library and Documentation Department 17836.22 m^2	Indoor Sports Hall 5451 m^2
	
Dormitory Building 12606.26 m^2	Painting Workshop 290 m^2
	
Olympic Swimming Pool 10297 m^2	Woodworking Workshop + Hangar 786 m^2

	
Machinery Supply Building 1145.02 m^2	Guesthouse Building 3392 m^2
	
Disabled Unit 700 m^2	School of Foreign Languages 11194.92 m^2
	
DINING HALL +WC+ Cafeteria 2845 m^2	Congress Cultural Center 20900 m^2

	
Faculty of Theology 16830 m^2	Sports Science Faculty 11620 m^2
	
Primary Education Building 9104 m^2	Advanced Technologies Center 5948 m^2
	
Lodgings 3453.68 m^2	Construction Works Technical Department 1047 m^2

BUILDING NAME	TOTAL AREA (m2)
Kütahya Dumlupınar University Rectorate	14690 m^2
Faculty of Fine Arts	44500 m^2
Engineering Faculty	26839.02 m^2
Faculty of Economics and Administrative Sciences	35359.03 m^2
Faculty Of Science And Literature	34697.12 m^2
Central Cafeteria	7467.89 m^2
Library and Documentation Department	17836.22 m^2
Indoor Sports Hall	5451 m^2
Dormitory Building	12606.26 m^2
Painting Workshop	290 m^2
Olympic Swimming Pool	10297 m^2
Woodworking Workshop + Hangar	1925 m^2
Machinery Supply Building	1145.02 m^2
Guesthouse Building	3392 m^2
Disabled Unit	700 m^2
School of Foreign Languages	11194.92 m^2
Dining Hall +WC+ Cafeteria	2845 m^2
Congress Cultural Center	20900 m^2
Faculty of Theology	16830 m^2
Sports Science Faculty	11620 m^2
Primary Education Building	9104 m^2
Advanced Technologies Center	5948 m^2
Lodgings	3453.68 m^2
Construction Works Technical Department	1047 m^2
TOTAL	**300138.16** m^2

[1.8] The Ratio of Open Space to Total Area

Area viewed from satellite
(Kütahya Dumlupınar University, Türkiye)

Ratio of open space towards total area: 98.7%

Total Open Area =7761349.78 m^2

[1.9] Total Area on Campus Covered in Forest Vegetation

Example of total forest vegetation area
(Kütahya Dumlupınar University, Türkiye)

[1.10] Total Area on Campus Covered in Planted Vegetation

Area on campus covered in planted vegetation
(Kütahya Dumlupınar University, Türkiye)

Total area on campus covered in planted vegetation (Lawns, gardens, green roofs, indoor planting, vertical gardening) 1691386.5 m^2

Total area on campus covered in planted vegetation / Total campus area = 1691386.5/7866913.92 = 21.5 %

[1.11] Total Area on Campus for Water Absorption Besided Forest and Planted Vegetation

Total area on campus for water absorption besided forest and planted vegetation
(Kütahya Dumlupınar University, Türkiye)

Total area on campus for water absorption besided forest and planted vegetation = (1924675 m^2 forest + 1009551 m^2 planted vegetation + 4634484.69 m^2 water absorption) = 7568710.69 m^2

7568710.69 m^2 / 7866913.92 m^2 = 96.21 %

[1.12] Total Number of Regular Students (Part Time and Full Time)

There are 45678 students enrolled at Kütahya Dumlupınar University.

[1.13] Total Number of Online Students (Part Time and Full Time)

There are no online students enrolled at Kütahya Dumlupınar University.

[1.14] Total Number of Academic and Administrative Staff

Kütahya Dumlupınar University employs a total of 1,003 academic staff and 1,193 administrative personnel. This distribution reflects the institution's comprehensive organizational structure, supporting both its educational and research activities across diverse academic units.

[1.15] The Total Open Space Area Divided by Total Campus Population

162.12 m^2

[1.16] University Budget (in US Dollars)

	2022	2023	2024	Average
Budget Total	$ 23684371.26	$ 36066831.68	$ 88871208.46	$ 49540803.80

[1.17] University Budget for Sustainability Effort (in US Dollars)

	2022	2023	2024	Average
Sustainability Budget	$ 7272114.30	$ 6503896.8	$ 8718740.56	$ 7498250.55

[1.18] University Budget for Sustainability Effort (in US Dollars)

	2022	2023	2024	Average
Budget Total	$ 23684371.26	$ 36066831.68	$ 88871208.46	$ 49540803.80
Sustainability Budget	$ 7272114.30	$ 6503896.8	$ 8718740.56	$ 7498250.55
			Percentage	15.14 %

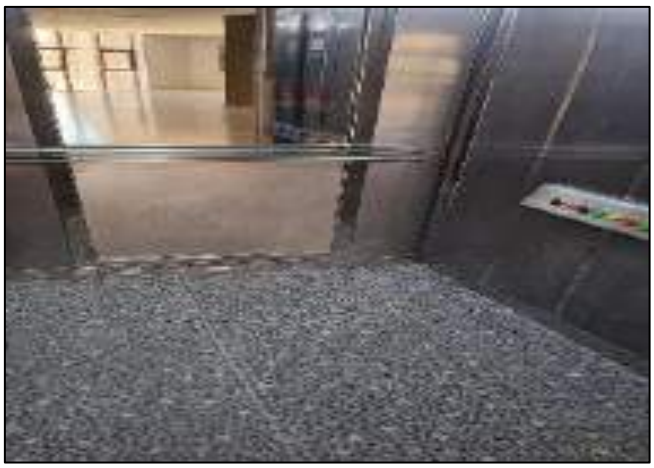
[1.19] Campus Facilities for Disabled, Special Needs, and or Maternity Care

CAMPUS FACILITIES FOR THE DISABLED	
Accessibility Infrastructure	
Ramps	
	
Evliya Çelebi Campus Vocational School of Applied Sciences	Evliya Çelebi Campus Faculty of Engineering
	
Evliya Çelebi Campus Faculty of Education	Evliya Çelebi Campus Faculty of Sports Sciences
	
Evliya Çelebi Campus Vocational School of Fine Arts	Evliya Çelebi Campus Bus Stop

	
Evliya Çelebi Campus Vocational School of Foreign Languages	Hisarcık Vocational School
	
Simav Vocational School	Çavdarhisar Vocational School
	
Hisarcık Vocational School	Gediz Vocational School

Non-slip Surfaces	
	
Evliya Çelebi Campus Faculty of Engineering	Evliya Çelebi Campus Faculty of Education
	
Simav Vocational School	Simav Faculty of Technology
	
Evliya Çelebi Campus Faculty of Theology	Tavşanlı Vocational School

	
Şaphane Vocational School	Evliya Çelebi Campus Faculty of Sports Sciences
	
Dumlupınar Vocational School	Evliya Çelebi Campus Faculty of Fine Arts
	
Evliya Çelebi Campus Faculty of Architecture	Evliya Çelebi Campus Vocational School of Foreign Languages

Elevators	
	
Evliya Çelebi Campus Vocational School of Foreign Languages	Evliya Çelebi Campus Faculty of Theology
	
Evliya Çelebi Campus Faculty of Sports Sciences	Evliya Çelebi Campus Faculty of Sports Sciences
	
Evliya Çelebi Campus Faculty of Arts and Sciences	Evliya Çelebi Campus Faculty of Fine Arts

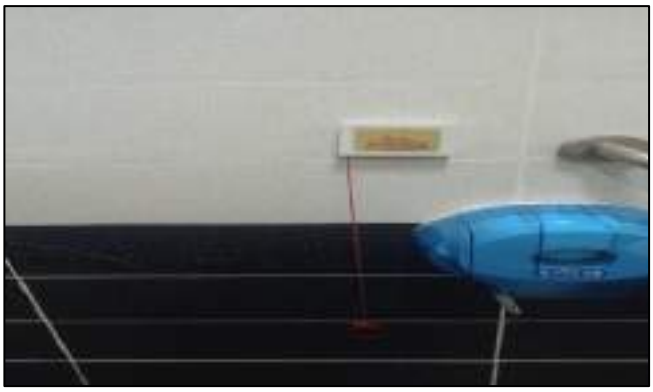
Wide Doors	
	
Evliya Çelebi Campus Faculty of Engineering	Evliya Çelebi Campus Faculty of Education
	
Evliya Çelebi Campus Vocational School of Fine Arts	Evliya Çelebi Campus Faculty of Sports Sciences
	
Simav Vocational School	Evliya Çelebi Campus Faculty of Architecture

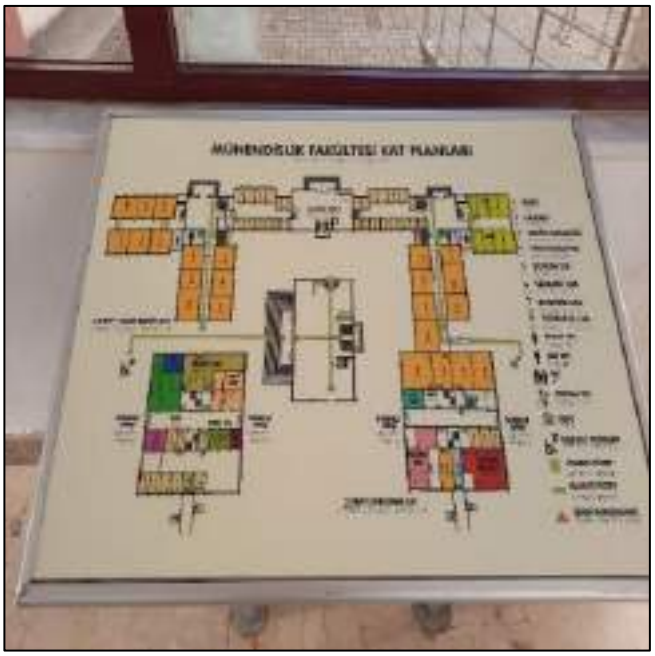
Accessible Toilets	
	
Gediz Vocational School	Evliya Çelebi Campus Faculty of Engineering
	
Evliya Çelebi Campus Faculty of Education	Evliya Çelebi Campus Vocational School of Applied Sciences
	
Evliya Çelebi Campus Vocational School of Social Sciences	Evliya Çelebi Campus Vocational School of Foreign Languages

Metal Grab Bars on Staircase Walls, Grab Bars at Building Entrances	
	
Evliya Çelebi Campus Vocational School of Applied Sciences	Evliya Çelebi Campus Faculty of Architecture
	
Evliya Çelebi Campus Faculty of Sports Sciences	Evliya Çelebi Campus Faculty of Sports Sciences
	
Çavdarhisar Vocational School	Evliya Çelebi Campus Faculty of Fine Arts

Photoelectric Doors at Building Entrances	
	
Evliya Çelebi Campus Vocational School of Applied Sciences	Evliya Çelebi Campus Faculty of Education
	
Simav Vocational School	Evliya Çelebi Campus Faculty of Architecture
	
Evliya Çelebi Campus Vocational School of Foreign Languages	Simav Faculty of Technology

Disabled Parking Lots	
	
Evliya Çelebi Campus Vocational School of Foreign Languages	Evliya Çelebi Campus Faculty of Engineering
	
Tavşanlı Vocational School	Hisarcık Vocational School
	
Evliya Çelebi Campus Faculty of Education	Simav Vocational School

Disabled Call Buttons	
	
Evliya Çelebi Campus Faculty of Arts and Sciences	Simav Vocational School
	
Evliya Çelebi Campus Faculty of Theology	Evliya Çelebi Campus Vocational School of Fine Arts
	
Evliya Çelebi Campus Faculty of Sports Sciences	Dumlupınar Vocational School

Arrangements for the Visually Impaired	
Braille for Guidance and Information	
	
Evliya Çelebi Campus Faculty of Engineering	Simav Vocational School
	
Evliya Çelebi Campus Faculty of Sports Sciences	Tavşanlı Vocational School

Audio Warning Systems (Elevator, Building Entrance, etc.)	
	
Evliya Çelebi Campus Faculty of Education	Evliya Çelebi Campus Faculty of Economics and Administrative Sciences
	
Simav Faculty of Technology	Tavşanlı Vocational School
	
Evliya Çelebi Campus Faculty of Sports Sciences	Evliya Çelebi Campus Vocational School of Foreign Languages

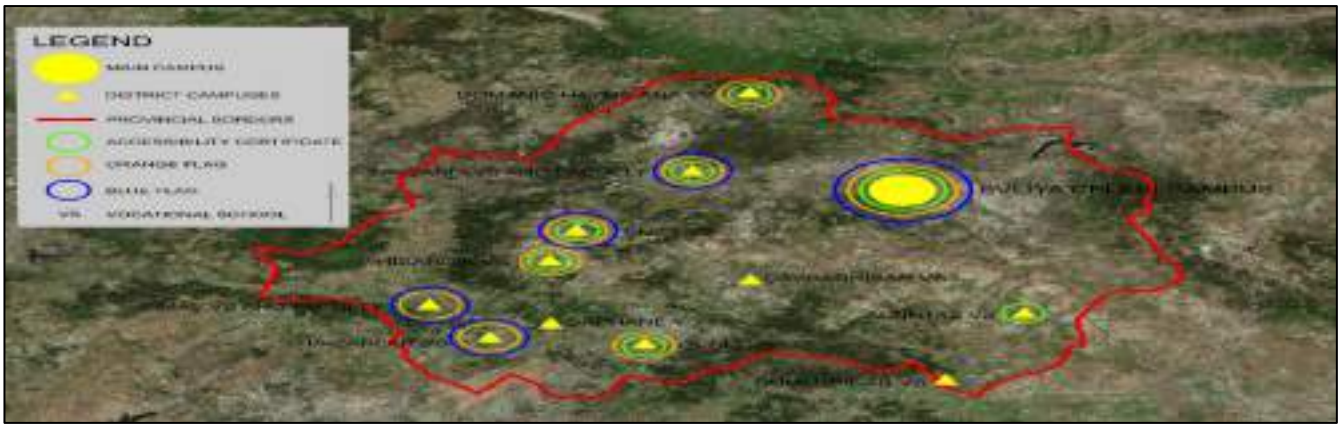
Guide Trails (Yellow Stick Trails)	
	
Evliya Çelebi Campus Vocational School of Applied Sciences	Evliya Çelebi Campus Vocational School of Foreign Languages
	
Evliya Çelebi Campus Faculty of Education	Simav Vocational School
	
Evliya Çelebi Campus Faculty of Economics and Administrative Sciences	Evliya Çelebi Campus Faculty of Theology

Arrangements for the Hearing Impaired	
Visual Alarm Systems (Lighted Warnings)	
	
Simav Vocational School	Simav Vocational School
	
Simav Faculty of Technology	Evliya Çelebi Campus Faculty of Arts and Sciences

FACILITIES FOR MATERNITY CARE	
Baby Care Room	
	
Baby Care Room Evliya Çelebi Campus Medico Social and Youth Counseling Center	Baby Care Room Evliya Çelebi Campus Bedesten
	
Breastfeeding Room Evliya Çelebi Campus Rectorate Building	Baby Care Room Evliya Çelebi Campus Bedesten

Our university has made the necessary arrangements and taken measures to facilitate the lives of individuals with disabilities (including students, academic staff, and administrative staff) and enable them to lead active lives at the Evliya Çelebi Campus in Kütahya city center and at its 11 campuses in the

Districts. The Evliya Çelebi Campus also has certain facilities and services for individuals with special needs and those requiring maternity care.



Locations and Awards for All Campuses
(Kütahya Dumlupınar University, Türkiye)

In this context, campus facilities for "people with disabilities, special needs, and maternity care" are grouped under three headings and explained below:

- Facilities for People with Disabilities
- Facilities for Special Needs
- Facilities for Maternity Care

Facilities for People with Disabilities

The university has implemented necessary arrangements and improvement measures to facilitate the lives of individuals with disabilities. Within this scope, campus facilities have been grouped under three headings:

- Accessibility infrastructure
    - Ramps
    - Non-slip surfaces
    - Elevators
    - Wide doors
    - Accessible toilets
    - Metal grab bars on staircase walls, grab bars at building entrances
    - Photoelectric Doors at Building Entrances
    - Disabled parking lots
    - Disabled Call Buttons
- Arrangements for the Visually Impaired
    - Braille for guidance and information
    - Audio warning systems (elevator, building entrance, etc.)
    - Guide trails (yellow stick trails)
- Arrangements for the Hearing Impaired
    - Visual alarm systems (lighted warnings)

The following tables show the “facilities for people with disabilities” located on campuses, with green cells indicating that one or more of the relevant subcategories are available.

Facilities for People with Disabilities on All Campuses

	SUB-CATEGORIES	Evliya Çelebi Campus	Altıntaş Vocational School	Çavdarhisar Vocational School	Domaniç Hayme Ana Vocational School	Dumlupınar Vocational School	Emet Meslek Vocational School	Gediz Vocational School	Hisarcık Vocational School	Pazarlar Vocational School	Simav Faculty of Technology	Simav Vocational School	Şaphane Vocational School	Tavşanlı Faculty of Applied Sciences	Tavşanlı Vocational School
	Ramps														
	Non-slip surfaces														
	Elevators														
	Wide doors														
	Accessible toilets														
	Metal grab bars on staircase walls, grab bars at building entrances														
	Photoelectric doors at building entrances														
	Disabled parking lots														
	Disabled call buttons														
	Braille for guidance and information														
	Audio warning systems (elevator, building entrance, etc.)														
	Guide trails (yellow stick trails)														
	Visual alarm systems (lighted warnings)														
	LEGEND	YES	NO												

Facilities for Persons with Disabilities at Evliya Çelebi Campus

	SUB-CATEGORIES	Faculty of Engineering	Faculty of Education	Faculty of Economics and Administrative Sciences	Faculty of Theology	Faculty of Fine Arts	Faculty of Sports Sciences	Faculty of Arts and Sciences	Faculty of Architecture	Graduate School of Education	Vocational School of Applied Sciences	Vocational School of Fine Arts	Vocational School of Foreign Languages	Vocational School of Social Sciences
	Ramps													
	Non-slip surfaces													
	Elevators													
	Wide doors													
	Accessible toilets													
	Metal grab bars on staircase walls, grab bars at building entrances													
	Photoelectric doors at building entrances													
	Disabled parking lots													
	Disabled call buttons													
	Braille for guidance and information													
	Audio warning systems (elevator, building entrance, etc.)													
	Guide trails (yellow stick trails)													
	Visual alarm systems (lighted warnings)													
	LEGEND	YES	NO											

The Evliya Çelebi Campus Martyr Petty Officer Ömer Halisdemir Library is designated as an “Accessible Library”. In this context, visually impaired students can benefit from Boğaziçi University’s Technology and Education Laboratory for the Visually Impaired (GETEM) Library services by creating an individual user account. Furthermore, the Internet Library Project designed by GETEM aims to provide access to information resources for the visually impaired. The GETEM User Guide for the Visually Impaired can be accessed from the library’s website.

Furthermore, the Accessible Student Unit, which operates within the University, is located on the Evliya Çelebi Campus. The unit’s purpose is to identify the difficulties that students with disabilities enrolled at our university, those who have registered for the new academic year, and those who will attend our university in future years may encounter throughout their educational lives. Additionally, individuals with disabilities are informed about educational or social activities through the unit’s social media accounts.

	
Accessible Student Unit Computer Lab Evliya Çelebi Campus	Hobby Workshop for Disabled Individuals Evliya Çelebi Campus

The Council of Higher Education has made necessary improvements in the presentations, lesson preparations, and teaching methods for students with special needs studying at our university, raising awareness for our students with disabilities while continuing education through distance learning. In line with the requests received, decisions have been made to replace exams for visually impaired students with the submission of assignments in the relevant term exams.

In addition, the Accessible Universities Publication Portal is being published in the form of the Disabled Student Unit YouTube Channel, where educational and awareness-raising publications for individuals with disabilities and their families will be made available.

To help our students with disabilities make the most of their free time and develop their manual skills, a hobby atelier (at Evliya Çelebi Campus) was opened in 2023, where various handicrafts are taught. In 2024, 13 activities were held at the “Accessible Hobby Atelier.”

- Tile and Flower Patterns Event
- Acrylic Painting Event
- “I Love Disabilities, Let’s Be Positive” Event
- “We Are Strong With Our Disabilities” Event
- “Disability Awareness” Event
- 2nd Barrier-Free Life Workshop and Barrier-Free Hobby Workshop Exhibition
- “Disabilities Are Not Obstacles to Life” Event
- “Being Disabled and Volunteering” Talk

Other events held in 2024 include:

- With the support of the Tavşanlı Municipality, the Tavşanlı Beyazay Disabled Persons Association organized an awareness program as part of Disability Week, with the participation of the Tavşanlı Faculty of Applied Sciences.
- The “Accessible Future: Societies Overcoming Barriers” Conference was held at Emet Vocational School.
- A talk titled “Disability through the Perspective of Disabled Persons” was held at the Simav Faculty of Technology as part of International Day of Persons with Disabilities on December 3rd.

Additionally, as a result of arrangements made to facilitate the lives of individuals with disabilities, the Graduate Education Institute, Vakıf Mosque, Public Administration, and Kütahya Faculty of Applied Sciences were awarded the Accessibility Certificate by the Kütahya Governorate Accessibility Monitoring and Inspection Commission in 2024. A total of 21 Accessibility Certificates were awarded by the Kütahya Governorate between 2018 and 2024, and the table below shows which buildings were awarded by year:

Accessibility Certificates Issued by the Kütahya Governorship Between 2018 and 2024		
YEAR	**NUMBER OF ACCESSIBILITY CERTIFICATES**	**BUILDINGS WITH ACCESSIBILITY CERTIFICATE**
2018	**4**	• Hüsnü Özyeğin Girls' Dormitory • Guesthouse • Rectorate • School of Foreign Languages
2019	**7**	• Bedesten • Faculty of Arts and Sciences • Indoor Sports Hall • Faculty of Engineering • Olympic Pool • Martyr Petty Officer Ömer Halisdemir Library • Tavşanlı Faculty of Applied Sciences
2022	**7**	• Altıntaş Vocational School • Domaniç Haymeana Vocational School • Emet Vocational School • Gediz Vocational School (Main Service Building) • Hisarcık Vocational School (Education Building) • Hisarcık Vocational School (Service Building) • Tavşanlı Vocational School (Education Building)
2024	**3**	• Graduate School of Education • Vakıf Mosque • Kütahya Faculty of Public Administration and Applied Sciences
TOTAL	**21**	

Accessibility Certificates Issued by the Kütahya Governorship Between 2018 and 2024		
YEAR	**BLUE FLAG NUMBER**	**BLUE FLAG WINNING BUILDINGS**
2020	1	• Evliya Çelebi Campus
2022	6	• Faculty of Arts and Sciences • Faculty of Economics and Administrative Sciences • Tavşanlı Faculty of Applied Sciences • Emet Vocational School • Pazarlar Vocational School • Simav Vocational School
2024	The result was not announced.	The result was not announced.
TOTAL	7	

In addition, the Council of Higher Education (YÖK) gives Barrier-Free University Awards, and since 2020, there are buildings within our University that have received the Accessibility in Space (Orange Flag) and Accessibility in Socio-Cultural Activities (Blue Flag) awards.

Orange Flag Awards Given by YÖK Between 2020-2024		
YEAR	**ORANGE FLAG NUMBER**	**ORANGE FLAG WINNING BUILDINGS**
2020	13	• Evliya Çelebi Campus • Bedesten • Accessible Student Unit • Faculty of Arts and Sciences • Hüsnü Özyeğin Student Dormitory • Indoor Sports Hall • Guesthouse • Olympic Swimming Pool • Faculty of Engineering • Rectorate Building • Martyr Petty Officer Ömer Halisdemir Library • Tavşanlı Faculty of Applied Sciences • Vocational School of Foreign Languages
2021	10	• Faculty of Economics and Administrative Sciences • Institute of Graduate Education • Tavşanlı Meslek Yüksekokulu • Domaniç Haymeana Vocational School • Emet Vocational School • Gediz Vocational School • Simav Faculty of Technology • Hisarcık Vocational School • Pazarlar Vocational School • Simav Vocational School
2024	The result was not announced.	The result was not announced.
TOTAL	23	

Special Needs Facilities

Psychologist services are provided by the Department of Health, Culture, and Sports, located on the Evliya Çelebi Campus. A SOCIOPARK area is also located on the same campus, where the University's Student Council and student groups affiliated with the Department of Health, Culture, and Sports can organize their activities, hold meetings, and carry out their projects.

As part of the nutritional needs regulations at Evliya Çelebi Campus, gluten-free meals are provided upon request in our cafeteria, which operates under the Health, Culture and Sports Department.

Among the research centers within our university, there is the "Family and Community Services Application and Research Center" and its mission is "to contribute to initiatives to strengthen the family structure, increase its welfare and integrity, protect its mental and physical health, produce solutions to the problems of women, children, the elderly, the disabled and other individuals/groups who may be disadvantaged in society and increase their well-being through scientific activities such as research, examination, projects, conferences, seminars and panels on social issues, especially family and women, with an interdisciplinary and collaborative approach." In 2024, it carried out the Transition Periods and Positive Psychology Event in Youth.

Transitional Periods in Youth and Positive Psychology Event Poster

How Do I Choose My Life Partner Before Marriage Event Poster

In 2024, Gediz Social Service Center staff members, Psychologist Fatma Gül YILDIRIM and Social Worker Sevim YILANCI, provided training on "Violence Against Women and Family Law" to students at Dumlupınar University's Gediz Vocational School on the occasion of November 25th, the International Day for the Elimination of Violence Against Women. Another event was "How Do I Choose My Life Partner Before Marriage" organized by Emet Vocational School and featuring Psychologist Emine BiRAL as a speaker.

Maternity Care Facilities

The Rectorate building on the Evliya Çelebi Campus houses a Baby Care Room. These rooms are used for breastfeeding, diaper changing, and even putting babies to sleep. The Baby Care and Breastfeeding Room makes life easier for new mothers. Mothers don't have to search for a place to breastfeed, change diapers, or take care of their babies' needs. The Baby Care and Breastfeeding Room features a bench and sink, providing mothers with a hygienic space to care for their babies.

The buildings listed above and the campus facilities for people with disabilities, special needs, and maternity care are visualized on the map below.

Evliya Çelebi Campus Building List

Building Code	Building Name		Building Code	Building Name
A	Olympic Swimming Pool		N	Faculty of Economics and Administrative Sciences
B	Indoor Sports Hall		O	Faculty of Economics and Administrative Sciences
C	Cafeteria		P	Graduate Institute
D	Department of Construction and Technology		Q	Faculties (Faculty of Applied Sciences and Faculty of Economics and Administrative Sciences), Accessibility Unit
E	Faculty and Vocational School (Faculty of Architecture, Faculty of Fine Arts, Faculty of Education, Vocational School of Fine Arts)		R	Cafe House
F	Faculty of Engineering		S	Zoonosis Application and Research Center
G	Rectorate, Department Heads, Security		T	Residential Buildings
H	Search and Rescue Society, DPÜ-AKUK (Disaster and Emergency Support Team), Disaster and Emergency Management Education, Application and Research Center Application Unit		U	Faculty of Theology, Turkish Language Education Application and Research Center (TÖMER)
I	Faculty and Vocational School (Faculty of Arts and Sciences, Vocational School of Technical Sciences, Vocational School of Social Sciences)		V	School of Foreign Languages
J	Bedesten, DPÜ Shop		W	Vakıf Mosque
K	Dumlupınar University Museum, Zafertepe Guesthouse, Department of Health, Culture and Sports		X	Dumlupınar Guesthouse
L	Advanced Technologies Center (İLTEM), Boron-Based Advanced Technology Ceramics Application and Research Center		Y	Faculty of Sports Sciences
M	Martyr Petty Officer Ömer Halisdemir Library, Continuing Education Center (DPÜSEM), Disaster and Emergency Education, Research and Application Center (DPÜ AFAMER), Foreign Languages Education Center (DİLMER)		Z	Workshop

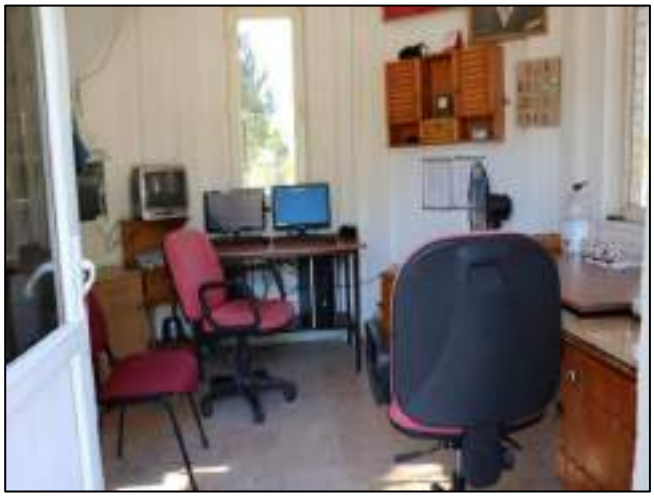
Evliya Çelebi Campus Campus Facilities for Disabled, Special Needs and Maternity Care

[1.20] Security and Safety Facilities

PHYSICAL SECURITY FACILITIES	
Security Checkpoints / Entrance Gates (Barrier or Turnstile Access System, License Plate Recognition, Camera Control)	
	
Pedestrian Entrance (Stone Gate) Evliya Çelebi Campus	Entrance Gate Turnstile Passage System (South Entry) Evliya Çelebi Campus
	
Vehicle Entrance (South Entrance) Evliya Çelebi Campus	Vehicle Entrance (North Entrance) Evliya Çelebi Campus
	
Barrier System and Pedestrian Entrance Simav Dr. İbrahim Naci Eren Campus	Barrier System and Security Booth Tavşanlı Vocational School

Security Booths	
	
Faculty of Sports Sciences Security Booth	TÖMER Security Booth
	
Faculty of Fine Arts Security Booth	Faculty of Economics and Administrative Sciences Security Booth
	
Martyr Petty Officer Ömer Halisdemir Library Security Booth	Foreign Languages Vocational School Security Booth

Perimeter Security Wall / Fence System	
	
Campus Perimeter Security Simav Dr. İbrahim Naci Eren Campus	Campus Perimeter Security Tavşanlı Vocational School
	
Campus Perimeter Security Çavdarhisar Vocational School	Campus Perimeter Security Pazarlar Vocational School

ELECTRONIC SECURITY SYSTEMS	
CCTV (Closed Circuit Camera System)	
	
Closed Circuit Camera System Evliya Çelebi Campus	Closed Circuit Camera System Simav Dr. İbrahim Naci Eren Campus
	
Camera System Tavşanlı Vocational School	Camera System Hisarcık Vocational School

License Plate Recognition System	
	
License Plate Recognition System Evliya Çelebi Campus	License Plate Recognition System Screen Evliya Çelebi Campus
Card Access Systems	**Information Security Infrastructure**
	
Rectorate Card Pass Evliya Çelebi Campus	System Room (Rectorate Building) Evliya Çelebi Campus
Lighting Systems	**X-RAY Device Scanning**
	
Street Lighting Evliya Çelebi Campus	Rectorate X-Ray Device Evliya Çelebi Campus

SAFETY AND HEALTH FACILITIES	
Firefighting Equipment (Fire Cabinets, Fire Extinguishers, Fire Alarm, Fire Extinguishing System)	
	
Fire Alarm Simav Dr. İbrahim Naci Eren Campus	Fire Alarm Dumlupınar Vocational School
	
Fire Cabinet Çavdarhisar Vocational School	Fire Extinguisher and Instructions Simav Dr. İbrahim Naci Eren Campus
	
Fire Cabinet and Extinguisher Simav Dr. İbrahim Naci Eren Campus	Fire Cabinet Gediz Vocational School

Emergency Exit and Directional Sign	
	
Emergency Exit and Directional Sign Simav Dr. İbrahim Naci Eren Campus	Emergency Exit and Directional Sign Hisarcık Vocational School
	
Emergency Exit and Directional Sign Simav Dr. İbrahim Naci Eren Campus	Emergency Exit and Directional Sign Pazarlar Vocational School

TRANSPORTATION AND TRAFFIC SAFETY	
Internal Transportation Security (Shuttle Stops, Bus Stops, Parking Lots, Bicycle Paths, Bicycle Parking Areas)	
	
Public Transport Stops and Parking Lots Evliya Çelebi Campus	Public Transport Stops Evliya Çelebi Campus
	
Public Transport Stops Evliya Çelebi Campus	Public Transport Stops and Parking Lots Evliya Çelebi Campus
	
Bicycle Parking Areas Evliya Çelebi Campus	Bicycle Paths Evliya Çelebi Campus

Speed Bumps, Pedestrian Crossings, Overpasses, Traffic Signs	
	
Speed Limit Sign Evliya Çelebi Campus	Speed Limit Sign Simav Dr. İbrahim Naci Eren Campus
	
Speed Bump Sign Evliya Çelebi Campus	Speed Bump Evliya Çelebi Campus
	
Speed Bump Gediz Vocational School	Pedestrian Overpass Evliya Çelebi Campus

Our university has various facilities and services in terms of safety and security in Campus Security Agency, Occupational Health and Safety, Disaster and Emergency Management.

Security Agency

Our university has a Security Organization within the Department of Administrative and Financial Affairs. The Security Unit, which works to ensure the security of our university campuses and ensures the duties and working conditions of the Private Security Officers recruited through the Public Personnel Selection

Exam, fulfills its coordination role by carrying out the necessary procedures. It conducts necessary inspections and operates in accordance with the “Directive on the Execution of Kütahya Dumlupınar University Security Services”. As stated in the workflow diagram of the private security organization responsible for security services, if an incident that could pose a security problem on campus occurs, it is responded to as quickly as possible. In-Service Security Training was conducted by the Police Department in 2024.

Civil Defense Expertise

Our university has a Civil Defense Expertise within the Department of Administrative and Financial Affairs. This unit is responsible for mobilization and war preparations, protecting personnel and students against disasters, protecting vital machinery and equipment, emergency repair and rehabilitation, and establishing, equipping, and training Civil Defense services.

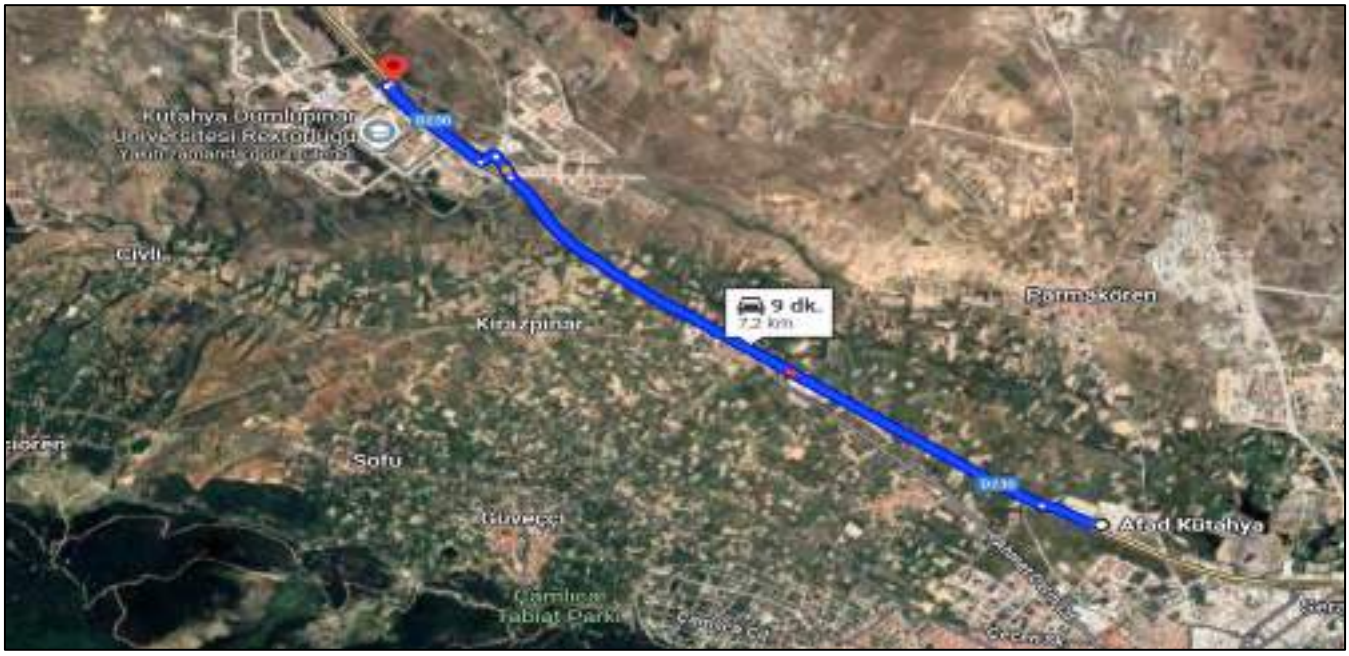
In addition, the Technical Sciences Vocational School offers a Civil Defense and Firefighting Program. Instructor Bülent BULDU, who is part of this program, conducted a “Basic Fire Safety” seminar at the Pazarlar Vocational School.

Occupational Health and Safety (OHS) Coordination Office

The primary goal of the Occupational Health and Safety Coordination Office is to protect the health and safety of our university employees at the highest level, identify and prevent potential risks in the workplace, ensure compliance with legal regulations, and create a sustainable work environment. Our priority is to create a culture that protects the health of every employee by maintaining the highest level of occupational health and safety standards, eliminates potential risks in workplaces, and continuously improves work environments. Prioritizing the safety of employees and students, complying with relevant legal regulations, raising awareness about occupational health and safety, organizing basic OHS training, ensuring the continuity of a safe work environment, and working in effective communication with stakeholders are our core values. The Occupational Health and Safety Implementation Guide has been published to guide all units and employees at our university. In 2024, a total of 3 Basic Occupational Health and Safety distance training courses were provided with 51 participants in January, 156 in May, and 159 in December.

Disaster and Emergency Management

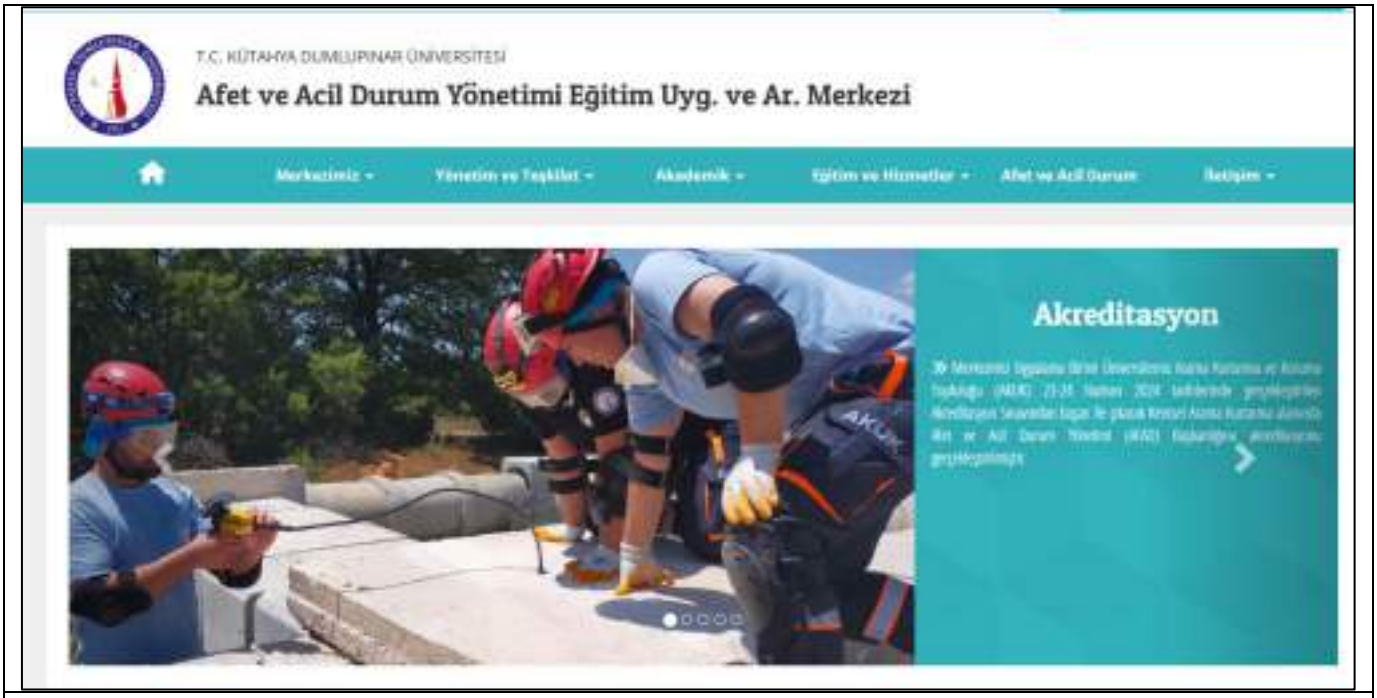
Our university maintains strong partnerships with nationally authorized institutions in disaster and emergency management. Our Evliya Çelebi Campus is a 9-minute drive from the Kütahya Provincial Disaster and Emergency Directorate (AFAD), and AFAD serves as a single command center in disaster situations. This strategic proximity allows for rapid and effective response in emergencies. Furthermore, the Senate Hall in the Rectorate building will be used as an Emergency Coordination Center when necessary.



Kütahya Provincial Disaster and Emergency Management Directorate Evliya Çelebi Campus Distance

The Kütahya Provincial Disaster and Emergency Directorate also provides training support, and it organized Disaster Awareness Training at Emet Vocational School.

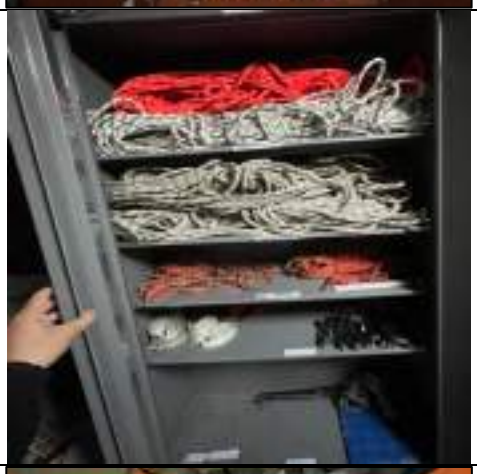
Furthermore, the accreditation of our Disaster and Emergency Training, Research, and Application Center (DPÜ AFAMER) by AFAD in the field of Urban Search and Rescue further strengthens our university's disaster preparedness and response capabilities. AFAMER plays a significant role both within the university and in the region through its disaster training and research programs.



Disaster and Emergency Training, Research and Application Center (DPÜ AFAMER)

Our campus's security infrastructure includes a comprehensive preparedness plan for various disasters. We maintain a high level of preparedness for all types of emergencies through regular drills and training exercises. Emergency response plans are in place to address any potential disaster, ensuring our staff and students are well-prepared and informed about potential scenarios. Professional teams trained by AFAD and DPÜ AFAMER are equipped to respond to a potential disaster in less than 10 minutes. Our university is equipped to minimize risks with its teams and equipment.

Visual documentation of all equipment and resources of DPÜ AFAMER is included below:	
	
	
	







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In 2024, Forest and Rural Fire Response Training (Practical), Confined Space Fire Fighting Simulation Training (Practical), Fire Criminology Training, and Basic Occupational Health and Safety Training (Distance Education) for Employees were carried out at the AFAMER Training Field. A Fire Simulation Container, Debris work area, and Narrow space rescue (corridor opening) simulation area have been completed to be used as practice areas in AFAMER Fire Fighting and Search and Rescue Trainings. AFAMER, Application Unit of our University Search, Rescue and Protection Community (AKUK), successfully passed the Accreditation Exam held on 23-24 June 2024 and was accredited by the Disaster and Emergency Management Presidency (AFAD) in the field of Urban Search and Rescue.

Drills and Trainings	
	
Accreditation	Confined Space Firefighting Simulation Training
	
Accreditation	Forest and Rural Fire Response Training

Additionally, various drills and training sessions were held in 2024:

An Emergency and Evacuation Drill was held for dormitory staff and students at Kütahya Dumlupınar University. Fire drills were also held at Domaniç Vocational School and Şaphane Vocational School. In

2024, Simav Vocational School also held fire drills, earthquake drills, and building evacuation drills. Traffic safety training was provided for all staff and students.

Emergency and Disaster Management Program:

Şaphane Vocational School has an Emergency and Disaster Management Program.

Additionally, the following events were organized to contribute to public safety:

A seminar titled “Combating Violence Against Women,” featuring Emine BIRAL, a psychologist working at the Tavşanlı Social Services Directorate, was held at Hisarcık Vocational School.

A seminar titled “Combating Addiction,” organized by the Tavşanlı Social Services Center Directorate, was held at Hisarcık Vocational School.

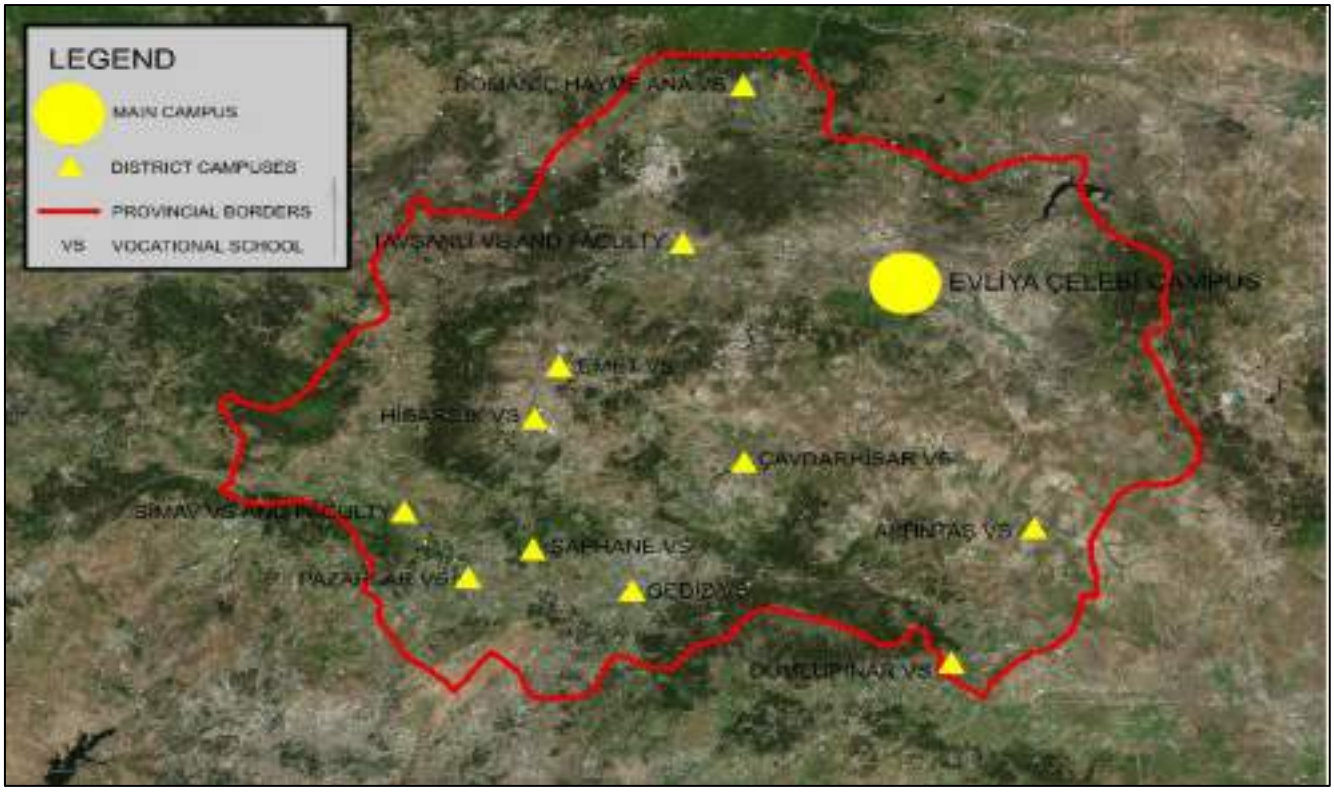
An Awareness Walk to Combat Addiction was held at Hisarcık Vocational School.

A seminar titled “General Traffic Rules,” presented by Ahmet KAHRAMAN, a Senior Police Traffic Instructor at the Kütahya Provincial Police Department, was held at Simav Vocational School.

Medico-Social and Youth Counseling Center:

Our university is located on the Evliya Çelebi Campus, where the Department of Health, Culture, and Sports is located, and the Health Services Branch Directorate also houses the Medico-Social and Youth Counseling Center. This center is staffed by midwives, nurses, and psychologists. Furthermore, because Kütahya Health Sciences University shares a campus with our university on the Evliya Çelebi Campus, the 112 Emergency Call Center is highly accessible for our university.

Our university, the Evliya Çelebi Campus in the City Center of Kütahya, and 11 other campuses in the districts have various physical or electronic safety and security services.



Locations of All Campuses

In this context, “Security and Safety Facilities” on campuses can be grouped under four headings:

- **Physical Security Facilities**
  - Security checkpoints / entrance gates → Control of vehicle and pedestrian entrances and exits. Barrier or turnstile access systems.
  - Security booths → Permanent security personnel at critical points such as the main entrance, faculty buildings, and dormitories.
  - Perimeter security wall / fence system → Defining campus boundaries and preventing unauthorized entry.
  - Emergency muster points → Safe assembly areas in cases of earthquakes and fires.
- **Electronic Security Systems**
  - CCTV (Closed-circuit camera system) → 24/7 monitoring of areas such as main roads, buildings, dormitories, parking lots, and laboratories. System room.
  - License Plate Recognition System
  - Card access systems → In areas requiring restricted access, such as dormitories, libraries, and laboratories.
  - Information security infrastructure → Security systems against cyberattacks.
  - Lighting systems → Night security in risky areas such as parking lots, dormitories, and walking paths.
  - X-RAY Scanning
- **Safety and Health Facilities**
  - Firefighting equipment → Fire cabinets, fire extinguishers. Fire alarm (manual alarm system or detection system), fire extinguishing system (automatic sprinkler, etc.)
  - Emergency exit and directional signs → Visible throughout buildings.
- **Transportation and Traffic Safety**
  - Internal transportation security → Shuttle bus stops, bus stops, parking lots, bike paths, bike parking areas.
  - Speed bumps, pedestrian crossings, overpasses, traffic signs → For on-campus traffic safety.

The table below shows the “Security and Safety Facilities” on campuses, and the green cells indicate that one or more of the relevant subcategories are present.

Security and Safety Facilities for All Campuses

	SUBCATEGORIES	Evliya Çelebi Campus	Altıntaş Vocational School	Çavdarhisar Vocational School	Domaniç Hayme Ana Vocational School	Dumlupınar Vocational School	Emet Vocational School	Gediz Vocational School	Hisarcık Vocational School	Pazarlar Vocational School	Simav Faculty of Technology	Simav Vocational School	Şaphane Vocational School	Tavşanlı Faculty of Applied Sciences	Tavşanlı Vocational School
	Security checkpoints / entrance gates → Control of vehicle and pedestrian entrances and exits. Barrier or turnstile access systems.														
	Security booths → Permanent security personnel at critical points such as the main entrance, faculty buildings, and dormitories.														
	Perimeter security wall / fence system → Defining campus boundaries and preventing unauthorized entry.														
	Emergency muster points → Safe assembly areas in cases of earthquakes and fires.														
	CCTV (Closed-circuit camera system) → 24/7 monitoring of areas such as main roads, buildings, dormitories, parking lots, and laboratories. System room.														
	License Plate Recognition System														
	Card access systems → In areas requiring restricted access, such as dormitories, libraries, and laboratories.														
	Information security infrastructure → Security systems against cyberattacks.														
	Lighting systems → Night security in risky areas such as parking lots, dormitories, and walking paths.														
	X-RAY Scanning														
	Firefighting equipment → Fire cabinets, fire extinguishers. Fire alarm (manual alarm system or detection system), fire extinguishing system (automatic sprinkler, etc.).														
	Emergency exit and directional signs → Visible throughout buildings.														
	Internal transportation security → Shuttle bus stops, bus stops, parking lots, bike paths, bike parking areas.														
	Speed bumps, pedestrian crossings, overpasses, traffic signs → For on-campus traffic safety.														

LEGEND	YES (ONE OR MORE OF THE SUBCATEGORIES)	NO

The Security and Safety Facilities of the Evliya Çelebi Campus are listed below:

Physical Security Facilities:

The 7,542,000 m² campus is surrounded by a wire fence. Three entry points, two with license plate recognition, 23 active guard posts, a closed-circuit camera system, and lighting systems ensure campus security. Emergency Muster Points serve all buildings.

Electronic Security Systems:

There is a "System Room" in the Rectorate Building for information security infrastructure. To ensure the uninterrupted operation of IT services, the Department of Information Technology has implemented a Disaster Recovery Center and Business Continuity Project.

The Rectorate Building is equipped with a turnstile system and X-RAY scanning, and there are card access systems at the Rectorate Building entrance and at the laboratory entrances in the İLTEM building.

The buildings are equipped with alarm and smoke detection systems.

Safety and Health Facilities

The Disaster and Emergency Training, Research and Application Center (AFAMER) and the Search, Rescue and Protection Community (AKUK) are located on the Evliya Çelebi Campus.

A minimum of one fire extinguisher per 250 square meters has been installed in each unit.

Emergency direction signs have been installed in all buildings.

The Senate Hall in the Rectorate building will be used as the Emergency Coordination Center.

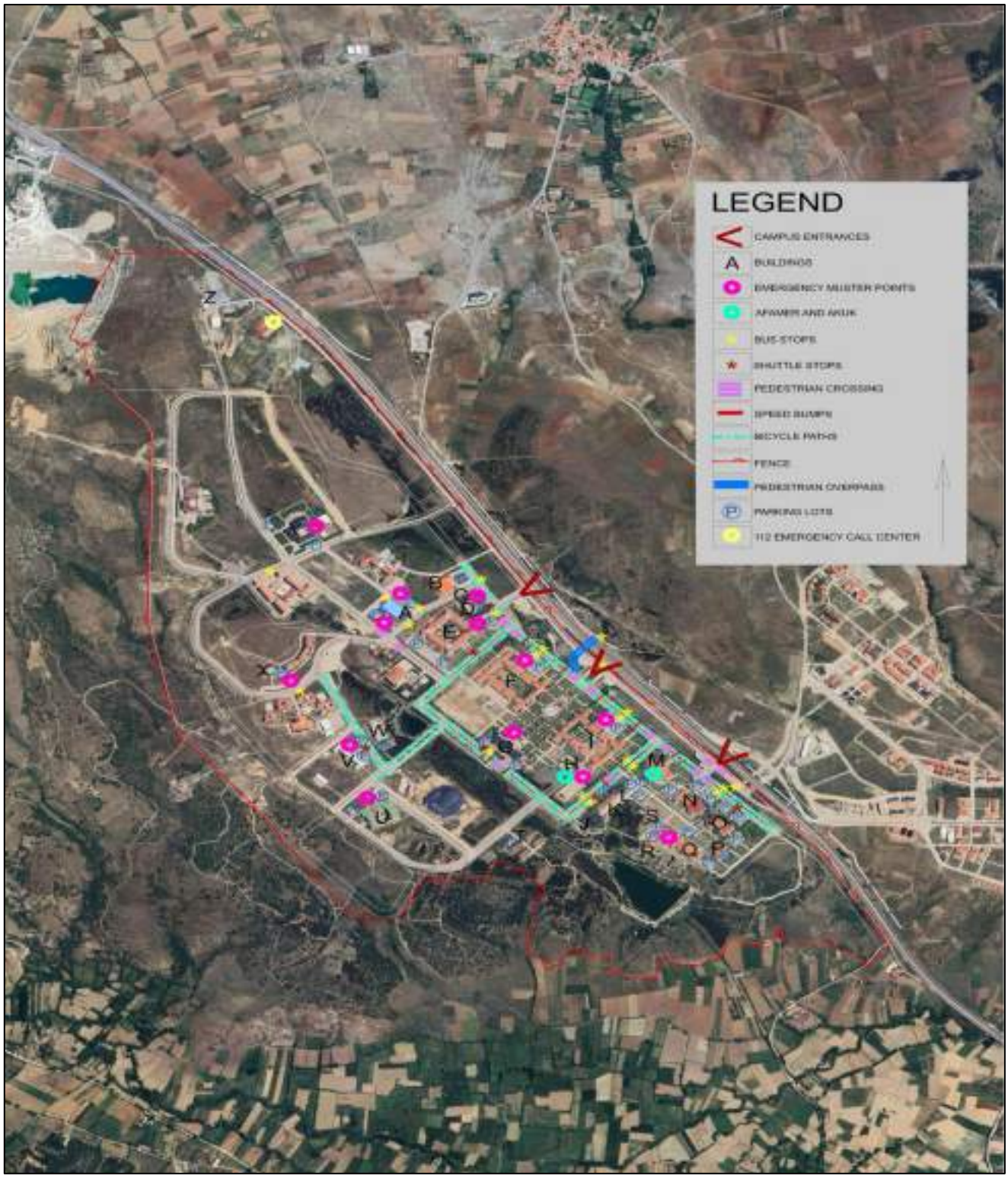
Transportation and Traffic Safety

The speed limit on campus is 30 km/h, and transportation and traffic safety is ensured throughout the campus through traffic signs, roadways, parking lots, sidewalks, bike paths, public transportation stops, shuttle stops, pedestrian crossings, speed bumps, and pedestrian overpasses.

Evliya Çelebi Campus Building List

Building Code	Building Name		Building Code	Building Name
A	Olympic Swimming Pool		N	Faculty of Economics and Administrative Sciences
B	Indoor Sports Hall		O	Faculty of Economics and Administrative Sciences
C	Cafeteria		P	Graduate Institute
D	Department of Construction and Technology		Q	Faculties (Faculty of Applied Sciences and Faculty of Economics and Administrative Sciences), Accessibility Unit
E	Faculty and Vocational School (Faculty of Architecture, Faculty of Fine Arts, Faculty of Education, Vocational School of Fine Arts)		R	Cafe House
F	Faculty of Engineering		S	Zoonosis Application and Research Center
G	Rectorate, Department Heads, Security		T	Residential Buildings
H	Search and Rescue Society, DPÜ-AKUK (Disaster and Emergency Support Team), Disaster and Emergency Management Education, Application and Research Center Application Unit		U	Faculty of Theology, Turkish Language Education Application and Research Center (TÖMER)
I	Faculty and Vocational School (Faculty of Arts and Sciences, Vocational School of Technical Sciences, Vocational School of Social Sciences)		V	School of Foreign Languages
J	Bedesten, DPÜ Shop		W	Vakıf Mosque
K	Dumlupınar University Museum, Zafertepe Guesthouse, Department of Health, Culture and Sports		X	Dumlupınar Guesthouse
L	Advanced Technologies Center (İLTEM), Boron-Based Advanced Technology Ceramics Application and Research Center		Y	Faculty of Sports Sciences
M	Martyr Petty Officer Ömer Halisdemir Library, Continuing Education Center (DPÜSEM), Disaster and Emergency Education, Research and Application Center (DPÜ AFAMER), Foreign Languages Education Center (DİLMER)		Z	Workshop

The buildings and security facilities on campus, whose codes are listed above, are visualized on the map below.



Evliya Çelebi Campus Security and Safety Facilities

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[1.21] Health Infrastructure Facilities for Students, Academics and Administrative Staffs' Wellbeing

Medico-Social and Youth Counseling Center Observation room (Kütahya Dumlupınar University, Türkiye)

Medico-Social and Youth Counseling Center (Kütahya Dumlupınar University, Türkiye)

Medico-Social and Youth Counseling Center Treatment-Dressing Room

Introduction of Medico-Social and Youth Counseling Center

Introduction of Medico-Social and Youth Counseling Center

Medico-Social and Youth Counseling Center Education and Promotional Activities for Faculties and Vocational Schools

Medico-Social and Youth Counseling Center Education and Promotional Activities for Faculties and Vocational Schools

Nurse	Gülşah SAÇMACILAR	1351	gulsah.sacmacilar@dpu.edu.tr
Nurse	Hatice ERKUN DOLKER	1352	hatice.edolker@dpu.edu.tr
Nurse	Neslihan GÖÇMEZ	1340	neslihan.gocmez@dpu.edu.tr

Medico Social Center Contact Numbers

Psychological Counseling Appointment System
(Kütahya Dumlupınar University, Türkiye)

Psychological Counseling Service
Psychologist Eren TUNCAY
E mail: eren.tuncay@dpu.edu.tr
Phone: 0 (274) 443 1358

Psychologist Office Location
(Kütahya Dumlupınar University, Türkiye)

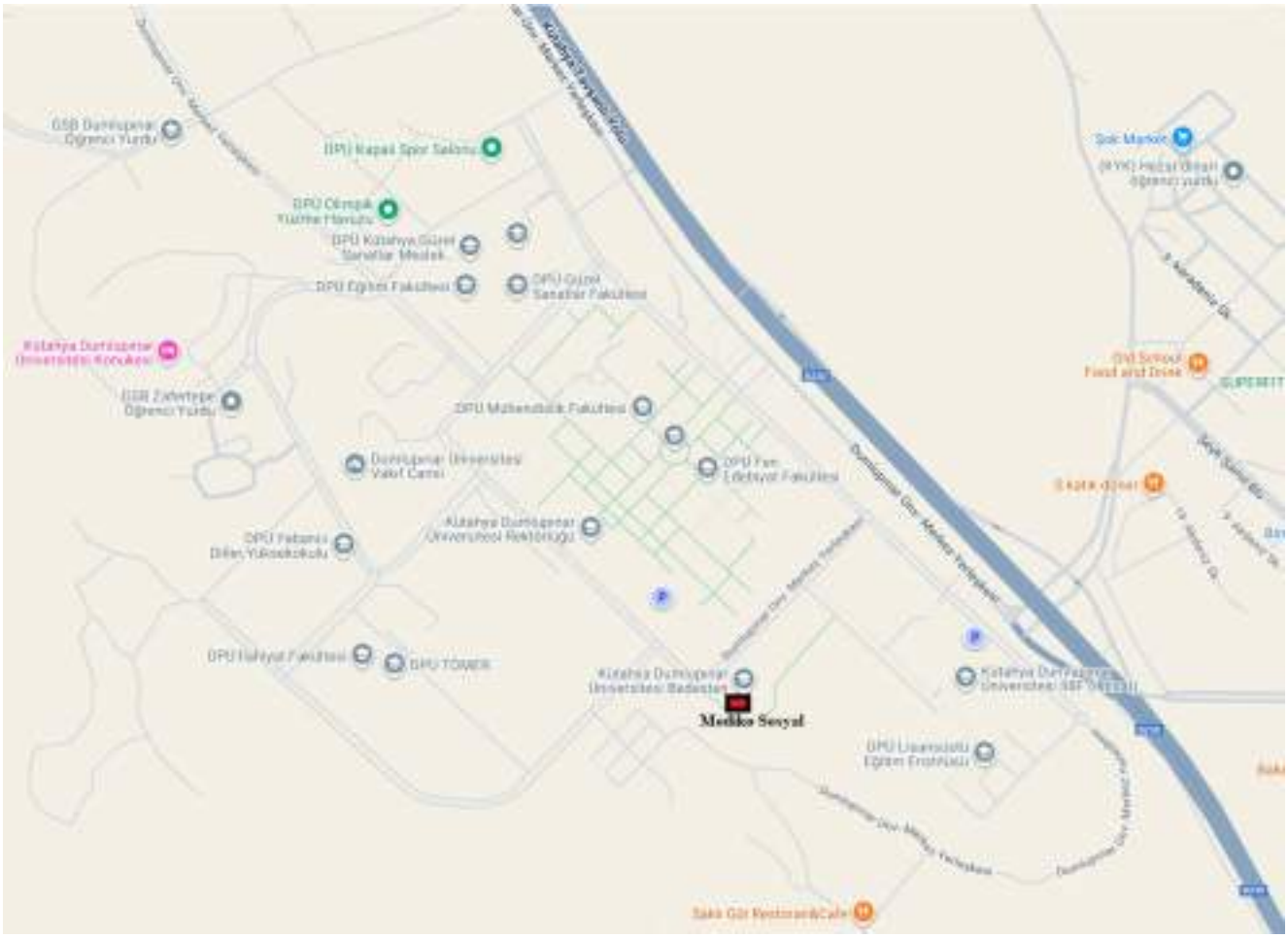
Psychologist Consultation Room
(Kütahya Dumlupınar University, Türkiye)

Exp. Dietician	Elif DADAK YILDIRIM	1330	elif.dadak@dpu.edu.tr
Dietician	Emre DÜNDAR	1331	emre.dundar@dpu.edu.tr

Nutrition and Diet Counseling Service Room
(Kütahya Dumlupınar University, Türkiye)

InBody 270 body analysis machine

Nutrition and Diet Counseling Service Appointment System (Kütahya Dumlupınar University, Türkiye)



Medico Social Center on the Map (Kütahya Dumlupınar University, Türkiye)

The health infrastructure of our university (first, aid emergency service, clinic, hospital and certified personnel) is ready, open to the public and accessible.

Medico-Social and Youth Counseling Center

Our Medico-Social and Youth Counseling Center, which operates under the Directorate of Health, Culture and Sports of our university, provides health services to students, academic and administrative staff, and their dependent family members. Medico Social Center works to protect the physical and mental health of students and employees and provides health services in various fields (injection, dressing, blood pressure measurement, conference, seminar, etc.).

Our center is located on the Kütahya Dumlupınar University Evliya Çelebi Campus. The Medico-Social Center employs one midwife and two nurses. Two dietitians provide Nutrition and Diet Counseling Services, and one psychologist provides Psychological Counseling Services. Dietitian and Psychologist appointments can be made at the relevant address: https://randevu.dpu.edu.tr/.

The Mediko Social Center is located on the ground floor of the Bedesten (Covered Bazaar) on the Kütahya Dumlupınar University Evliya Çelebi Campus and operates weekdays from 8:30 am to 5:30 pm. All students who apply to the Mediko Social Center can benefit from all services provided free of charge.

Introduction of Medico-Social and Youth Counseling Center

At the beginning of the academic year, the Medico-Social and Youth Counseling Center is introduced in student dining halls and canteens on campus.

Psychological Counseling Service

Kütahya Dumlupınar University aims to support its students to adapt to university life, to support their individual, social and academic development, to gain skills to deal with problems, to contribute to their personal development by raising awareness in self-knowledge. Interviews last between 40-50 minutes, depending on the content of the question and the session process. It is a unit where students can apply and receive psychological support whenever they need it throughout their university life. Confidentiality is the most important criterion in the psychological counseling process. Kütahya Dumlupınar University students, administrative and academic staff and their relatives can benefit from the Psychological Counseling Service. In the Psychological Counseling Service; difficulties in adapting to university life, depression, family conflicts, relationship problems, anger control problems, anxiety-related problems (anxiety, panic attacks, specific phobia, social phobia, exam anxiety), distraction/hyperactivity, self-confidence problems, inability to study effectively / lack of motivation, time management / procrastination problems, eating disorders, post-traumatic stress disorder, loss and grief, etc. issues are supported. Consulting services are provided free of charge via an appointment system; https://randevu.dpu.edu.tr/.

Nutrition and Diet Counseling Service

Body analyzes (body fat, muscle, water ratios, etc.) of the people who will be given consultancy service in the service are made and the results are evaluated. By learning the nutritional habits of the people, their general nutritional status is determined. It is aimed to raise awareness of healthy nutrition by explaining “Adequate and Balanced Nutrition” to these people. Nutrition and diet services are provided to support the process of achieving the goals of patients and clients, and diet monitoring is provided at weekly or 15-day intervals. In our service; LIFETIME HEALTHY NUTRITION; Adequate, balanced and correct nutrition during infancy, childhood, adolescence, adulthood, pregnancy, lactation and old age, NUTRITION IN CASE OF DISEASE; weight management (Obesity, weakness), cardiovascular diseases, liver and gallbladder diseases, diabetes (type 1, type 2, gestational diabetes, etc.), reactive hypoglycemia, hypertension, hyperlipidemia (High cholesterol, triglyceride, etc.), metabolic syndrome Nutrition programs are prepared

according to diseases such as kidney diseases, stomach and intestinal diseases, allergies, eating disorders (anorexia, bulimia, etc.), and diet consultancy services are provided. Services are provided at the Department of Health, Culture and Sports building. Consulting services are provided by appointment; https://randevu.dpu.edu.tr/.

[1.22] Conservation: Plant, Animal, and Wildlife, Genetic Resources for Food and Agriculture Secured in Either Medium or Long-Term Conservation Facilities

Anımal Shelter
(Kütahya Dumlupınar University, Türkiye)

Fishing in the Pond and Poultry
(Kütahya Dumlupınar University, Türkiye

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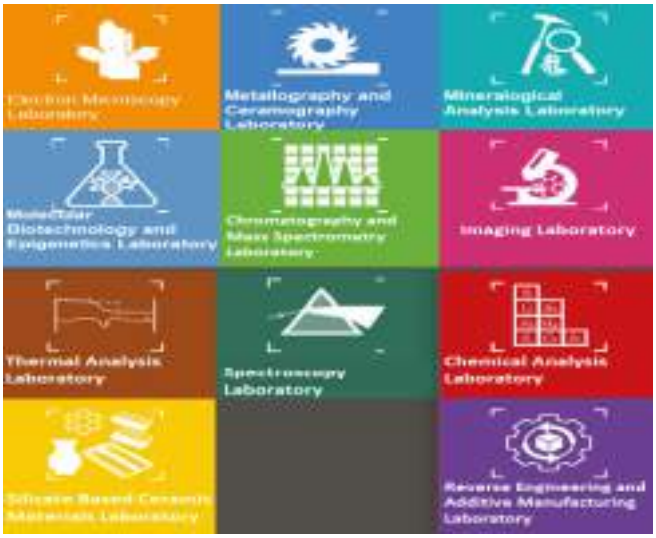
<td> 
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<td>FF718LiC Sonar Fish Finder
(Kütahya Dumlupınar University, Türkiye)</td>
<td>11 Laboratories in İLTEM
(Kütahya Dumlupınar University, Türkiye)</td>
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<td colspan="2">Ponds
(Kütahya Dumlupınar University, Türkiye)</td>
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<td>Karakız Mushroom
(Kütahya Dumlupınar University, Türkiye)</td>
<td>Domalan Mushroom
(Kütahya Dumlupınar University, Türkiye)</td>
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Kanlıca Mushroom (Kütahya Dumlupınar University, Türkiye)	Ear Mushroom (Kütahya Dumlupınar University, Türkiye)

KÜTAHYA DUMLUPINAR ÜNİVERSİTESİ
VE
İL TARIM VE ORMAN MÜDÜRLÜĞÜ
ORTAKLIĞIYLA YAPILACAK ÇALIŞMAYA İLİŞKİN
PROTOKOL

Aralık 2018

KÜTAHYA DUMLUPINAR ÜNİVERSİTESİ VE İL TARIM VE ORMAN MÜDÜRLÜĞÜ ORTAKLIĞIYLA YAPILACAK ÇALIŞMAYA İLİŞKİN PROTOKOL

Kütahya Dumlupınar University and Kütahya Provincial Directorate of Agriculture and Forestry Protocol
(Kütahya Dumlupınar University, Türkiye)

	
Planting Fields (Kütahya Dumlupınar University, Türkiye)	Greenhouse (Kütahya Dumlupınar University, Türkiye)
	
Flower Greenhouses (Kütahya Dumlupınar University, Türkiye)	Fruit Trees (Kütahya Dumlupınar University, Türkiye)
	
Tree Seedlings (Kütahya Dumlupınar University, Türkiye)	Tools and Equipment (Kütahya Dumlupınar University, Türkiye)

	
Product Development Application and Research Center (Kütahya Dumlupınar University, Türkiye)	Aromatic Oil Production Facility (Kütahya Dumlupınar University, Türkiye)
	
Laboratory Scale Distillation Unit with Steam Heating System (Kütahya Dumlupınar University, Türkiye)	Cold Pressing Unit (Kütahya Dumlupınar University, Türkiye
	
Cold Pressed Filtering Unit (Kütahya Dumlupınar University, Türkiye	Steam Generator (Kütahya Dumlupınar University, Türkiye)

KÜTAHYA DUMLUPINAR ÜNİVERSİTESİ
REKTÖRLÜĞÜ
İLE
ORMAN GENEL MÜDÜRLÜĞÜ
ARASINDA

ÜNİVERSİTE KAMPÜS ALANININ AĞAÇLANDIRILMASI, AĞAÇLANDIRILAN SAHALARIN BAKIMI VE İŞ BİRLİĞİ PROTOKOLÜ

Kütahya Dumlupınar University Campus area afforestation and maintenance protocol
(Kütahya Dumlupınar University, Türkiye)

Lakes and greenhouse areas
(Kütahya Dumlupınar University, Türkiye)

Hekim Sinan Medicinal and Aromatic Plants

In order to meet the needs and protect the animals that live on the campus and become one of the residents of the campus, conservation programs have been organized by the university administrators, academic and administrative staff and students, and all of these protection programs have been implemented. Within the scope of these protection programs, necessary studies were carried out to meet the feeding, sheltering, health and love needs of animals. Poultry is also raised by campus residents.

The Animal Rights Protection Society, affiliated with the Health, Culture and Sports Department of our university, has placed feeders and birdhouses they have prepared for campus birds at different points on campus.

There are 6 ponds in the campus. It is planned to increase the water quality in the ponds, to examine the fish population, to remove harmful species and to develop preferred species. In this context, the General Directorate of Fisheries was contacted. An investigation was carried out by Kütahya Provincial Directorate of Agriculture and Forestry and Eğirdir Fisheries Research Institute Experts and a protocol was signed to maintain the habitat in the ponds in a healthy way in the long term.

Fish in the lakes are examined with the FF718LiC sonar fish finder.

The project titled "Determination of the Distribution Areas of Rare and Endangered Endemic Plants Growing in Kütahya" was successfully completed in 2024 as a Priority Area Project. Meanwhile, the project titled "Identification of Mosquito Species (Diptera: Culicidae) in Kütahya Province and Its Surroundings" was launched in 2024 as a General Research Project."

The Hekim Sinan Medicinal and Aromatic Plants Research Center was temporarily transferred to Kütahya Dumlupınar University by the Kütahya Municipality. The center produces endemic plants.

Among the edible mushroom varieties, Karakız mushroom (1), Domalan mushroom (2), Kanlıca mushroom (3) and Ear mushroom (4) are grown in the forest areas within the campus. Thyme varieties used as spice are grown in forest flora.

There are fruit and vegetable cultivation areas for campus residents. In these areas, various crops such as watermelon, melon, tomato, pepper, cucumber, sunflower, and corn are grown. There is also a greenhouse.

There are greenhouses in the Turquoise Kiosk, depending on the Construction and Technical Department. In these greenhouses, daisy, snapdragon, trumpet flower, evening primrose, cactus varieties etc. various ornamental plants are grown. Various tree species and saplings are grown on the allocated land. There are tree species and seedlings used in pharmacy such as horse chestnut, linden, pear, apple, plum, black mulberry, mulberry, pine, spruce, juniper, etc.

New lavender groves have been created in various parts of the campus. Medicinal and aromatic plants have been planted on an area of 180000 m^2 in the campus. Its distribution is as follows; 110000 m^2 Sunflower, 30000 m^2 Lavender, 10000 m^2 Thyme, 5000 m^2 Calendula, 5000 m^2 Medicinal Chamomile, 5000 m^2 Sage, 5000 m^2 Echinacea and 10000 m^2 were used for greenhouse construction.

In our university's Chemical Product Development Application and Research Center, essential oils are obtained using medicinal and aromatic plants, especially thyme, echinacea, calendula, lavender, chamomile, sage and rose.

The Decree on the Organization and Duties of the Ministry of Forestry and Water Affairs, dated 29.06.2011 and numbered 645, for the principles of afforestation of the empty areas within the campus area between Kütahya Dumlupınar University and the General Directorate of Forestry with suitable species, for the maintenance cutting of the congested larch individuals, and for the pruning to restore them to a healthy structure. cooperation protocol was signed. With the signed cooperation protocol, it was stated that it was aimed to determine the principles of afforestation of the empty areas in the campus area with suitable species and to provide a healthy structure by caring, cutting and pruning the cramped larch individuals in the campus area.

Sunflower honey is produced by the pollination of oil sunflower and medicinal aromatic plants planted by Kütahya Dumlupınar University on an area of 180 decares by bees specially placed in the region.

Necessary analyzes are carried out in 11 laboratories (1.Electron Microscopy Laboratory, 2. Metallography and Ceramography Laboratory, 3. Mineralogical Analysis Laboratory, 4. Molecular Biotechnology and Epigenetics Laboratory, 5. Chromatography and Mass Spectrometry Laboratory, 6. Imaging Laboratory, 7. Thermal Analysis Laboratory, 8. Spectroscopy Laboratory, 9. Chemical Analysis Laboratory, 10. Silicate Based Ceramic Materials Laboratory, 11. Reverse Engineering and Additive Manufacturing Laboratory) at our University's Advanced Technologies Application and Research Center.

[1.23] Planning, implementation, monitoring and/or evaluation of all programs related to Setting and Infrastructure through the utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Some course recordings that will be conducted via distance education in the 2023-2024 academic year will be recorded in a studio environment. Some faculty members participate as guests in live broadcast programs in different media outlets.	Smart boards, camera systems, sound recorders and director room mounting equipment	Studio Photos	March 2024 – May 2024	Distance Education Application and Research Center Directorate (UZEM)
Monitoring	Regular audits of network infrastructure and classroom technology usage	Network monitoring tools (Nagios, PRTG Network Monitor) and usage analysis software (Google Analytics for Education)	Audit reports, network performance measurements, and usage statistics of classroom technologies.	July 2024 - Ongoing	UZEM
Evaluation	Assessment of ICT impact on teaching and learning outcomes	Surveys and feedback forms distributed via digital platforms (Google Forms, Survey Monkey) and data analysis tools (SPSS, Excel).	Survey results, feedback summaries, academic performance data	Dec 2024	UZEM

Planning: Development of a digital campus master plan

- **Activities/Programs:** During this phase, the campus sets out to create a comprehensive digital master plan. This involves identifying needs, setting goals, and developing strategies for ICT integration across campus infrastructure.
- **ICT Utilization:** Project management software (Microsoft Project, Asana) and digital collaboration tools (Slack, Microsoft Teams) are used to coordinate planning activities, document discussions, and manage timelines.
- **Evidence:** Evidence for this phase includes project proposals outlining the scope and objectives of the master plan, minutes of planning meetings detailing discussions and decisions made, and digital documents summarizing the master plan.
- **Timeline:** March 2024 – May 2024
- **Responsible Team/Department:** Distance Education Application and Research Center Directorate (UZEM)

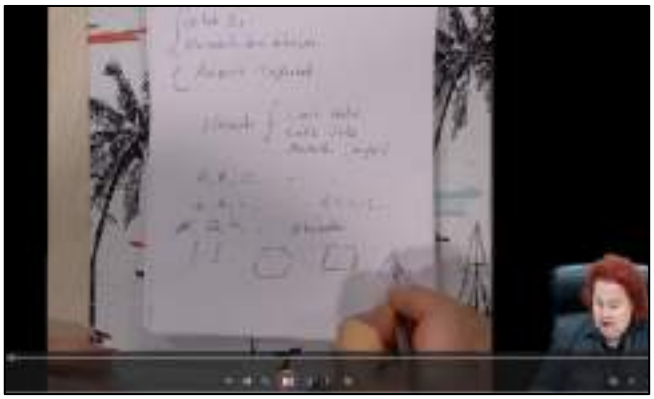
Monitoring: Regular audits of network infrastructure and classroom technology usage

- **Activities/Programs:** Continuous monitoring of the campus network infrastructure and classroom technology usage to ensure optimal performance and identify areas for improvement.
- **ICT Utilization:** Network monitoring tools (e.g., Nagios, PRTG Network Monitor) and usage analytics software (e.g., Google Analytics for education) are employed to track network performance and technology usage.
- **Evidence:** Audit reports that summarize the findings of regular checks, network performance metrics showing uptime and downtime, and usage statistics from classroom technologies.
- **Timeline:** July 2024 - Ongoing
- **Responsible Team/Department:** UZEM

Evaluation: Assessment of ICT impact on teaching and learning outcomes

- **Activities/Programs:** Evaluate the effectiveness of the implemented ICT solutions in enhancing educational outcomes. This involves collecting feedback from stakeholders and analyzing data on academic performance.
- **ICT Utilization:** Surveys and feedback forms distributed via digital platforms (e.g., Google Forms, SurveyMonkey), and data analysis tools (e.g., SPSS, Excel) to evaluate the collected data.
- **Evidence:** Survey results showing the perception of the new technology by students and faculty, summaries of feedback collected, and academic performance data comparing results before and after the implementation.
- **Timeline:** December 2024
- **Responsible Team/Department:** UZEM

Installation of smart classroom technology

	
Lab.1. 51 integrated PCs, Vestel Smart Board, 1 Samsung Dongle in the laboratory	Lab.2. 21 integrated PCs, 1 HNC Smart Board in the laboratory
	
AT.1. HNC smart board. There are 4 classrooms, 2 laboratories and 2 lecture halls in the faculty.	There are a total of 27 projectors in 21 classrooms, 2 in lecture halls and 4 in laboratories.
	
Wireless Image Transfer devices are connected to the projectors (Android) in 21 classrooms, 2 in lecture halls and 2 in laboratories.	Lesson Recording Studio

[1.24] Impact of Campus and Infrastructure in Supporting Sustainable Development Goals

Our university has implemented a wide range of Campus and Infrastructure programs that make significant contributions to the 17 Sustainable Development Goals (SDGs). These initiatives directly contribute to SDGs 3, 4, 6, 7, 9, 11, 12, 13, 14, 15, and 17; they also indirectly support other goals.

Construction and renovation of energy-efficient buildings based on green building principles, equipped with natural lighting and ventilation systems and solar panels for renewable energy.

To increase the use of sustainable energy at our university, a 180 kW photovoltaic solar power plant has been commissioned, meeting a significant portion of the campus's energy needs from clean sources. Additionally, a call for tenders has been issued for a new 1 MW solar power plant planned for the Simav Faculty of Technology campus, and negotiations with installation companies are ongoing. Thanks to the solar panels installed on various buildings across the campus, electricity is generated from renewable sources, which contributes significantly to both reducing energy costs and lowering greenhouse gas emissions. These investments serve the university's goals of creating an environmentally friendly and sustainable campus by increasing its energy diversity.

The heat pump system established at Kütahya Dumlupınar University contributes significantly to sustainable campus goals by increasing energy efficiency. These systems, which provide heating and cooling using renewable energy sources such as air, water, and soil, reduce fossil fuel consumption and lower the carbon footprint. Offering higher efficiency per unit of energy compared to traditional systems, heat pumps reduce energy consumption and provide cost savings. Thanks to their environmentally friendly structures, these systems significantly reduce greenhouse gas emissions, strengthening the university's compliance with international sustainability criteria and standing out as an exemplary application in energy management.

Relevant SDG Article: 7. Affordable and Clean Energy, 9. Industry, Innovation and Infrastructure, 11. Sustainable Cities and Communities, 12. Responsible Consumption and Production, 13. Climate Action

Expanding green open spaces (GOS) to improve air quality and support local biodiversity.

In order to improve air quality and create a sustainable campus environment, efforts are being made to increase green spaces within the university campus. Through afforestation, landscaping, and natural vegetation conservation practices across the campus, carbon sequestration is increased and the continuity of the local ecosystem is supported. These green spaces contribute to reducing air pollution, preserving biodiversity, balancing the microclimate, and improving the quality of campus life.

Implementation of rainwater harvesting systems and infiltration wells to manage rainwater and protect groundwater.

Systems for rainwater management are being developed across the campus to ensure the efficient use of water resources and protect groundwater reserves. Rainwater collected from roofs and open areas is stored in special storage systems and used for non-potable water applications such as landscape irrigation, cleaning, and toilet reservoirs. This practice contributes to both the conservation of natural resources and the reduction of the campus's water consumption costs by preventing water waste.

Developing pedestrian walkways, bicycle lanes, and integration with public transportation to promote low-emission mobility.

Kütahya Dumlupınar University aims to transform campus mobility into an environmentally friendly structure by promoting low-emission transportation systems. In this context, special bicycle lanes have been created on campus to encourage bicycle use and reduce motor vehicle traffic. To encourage bicycle

use among students and staff, secure parking areas, bicycle stations, and directional signs have also been added.

Additionally, low-carbon transportation alternatives such as electric vehicles, scooters, and motorcycles are actively used on campus, thereby reducing both fuel consumption and carbon emissions. The university implements green transportation incentives to support environmentally conscious transportation choices and encourages students and staff to take advantage of these systems.

Strengthening integration with public transportation systems has increased sustainable transportation options for accessing the campus, thereby reducing traffic congestion on campus and contributing to the preservation of air quality. All these practices support the university's environmentally friendly campus vision in line with the goals of sustainable transportation, low carbon emissions, and an active lifestyle culture.

Relevant SDG article: 7. Affordable and Clean Energy, 11. Sustainable Cities and Communities, 12. Responsible Consumption and Production, 13. Climate Action

Using digital technology to monitor energy and water consumption and manage infrastructure assets in a sustainable manner.

Kütahya Dumlupınar University effectively uses digital technologies to monitor energy and water consumption and manage infrastructure assets in a sustainable manner. Water meters and digital monitoring systems have been implemented across the campus, enabling real-time monitoring of water usage and rapid detection of potential leaks. This increases water usage efficiency and allows for more effective monitoring of energy consumption. Thanks to the digital infrastructure, data-driven decision-making mechanisms are being developed, supporting the campus in achieving its sustainability goals. Furthermore, these technological systems prevent resource waste and improve the university's environmental performance by reducing long-term maintenance and operating costs.

Relevant SDG article: 6. Clean Water and Sanitation, 7. Affordable and Clean Energy, 11. Sustainable Cities and Communities, 13. Climate Action

[2] Energy and Climate Change (EC)

[2.1] Energy Efficient Appliances Usage

Kütahya Dumlupınar University is committed to enhancing energy efficiency and minimizing its environmental impact through the adoption of sustainability principles across the campus. In this context, the university has implemented a comprehensive energy management strategy that extends from buildings to outdoor spaces, promoting the widespread use of energy-saving devices and systems.

Energy-Efficient Devices and Systems

In order to reduce energy consumption and minimize its carbon footprint, the university employs high-efficiency devices in academic buildings, student dormitories, staff residences, and common areas. These devices not only ensure energy savings but also reduce maintenance costs and provide long service life.

High-Efficiency Washing and Drying Machines in Dormitories

Student and staff dormitories are equipped with ENERGY STAR-certified washing and drying machines. These appliances are fitted with sensor-based control systems that minimize water and electricity consumption by automatically adjusting cycles according to load size and fabric type, thus preventing energy waste.

Low-Power Consumption Televisions in Common Areas

Energy-efficient LED televisions are used in lounges, dormitories, and staff housing units. These televisions automatically adjust their brightness according to ambient light levels, preventing unnecessary power consumption while contributing to sustainability goals through their durable and long-lasting design.

Environmentally Friendly Printers

Printers used in libraries and administrative offices operate with low-temperature toner technology, ensuring both energy and resource efficiency. These printers run in default Eco Mode, featuring automatic sleep and duplex printing functions that reduce paper and electricity consumption.

Energy-Regenerative Fitness Equipment in Gyms

Campus sports centers are equipped with treadmills and elliptical machines featuring regenerative braking technology, which converts user-generated kinetic energy into electrical energy fed back into the building's power system. This innovation reduces the overall energy demand of the facility.

Low-Energy Consumption Computers

Student laboratories and academic offices utilize computers with low-power processors and solid-state drives (SSD). These devices are equipped with automatic sleep modes and are centrally managed to shut down outside working hours, preventing unnecessary energy use.

Smart LED Lighting Systems

Indoor and outdoor lighting systems employ LEDs integrated with motion sensors and timers. Classroom and office lights operate only when spaces are occupied, while outdoor lighting automatically dims during low-activity hours.

Automated Irrigation Systems

Landscape irrigation is managed through automated systems based on weather data and soil moisture sensors. These systems operate only when necessary, ensuring both water and energy savings.

High-Efficiency Boilers

Campus heating systems utilize high-efficiency boilers with heat recovery capabilities, reducing fuel consumption and carbon emissions. Regular maintenance ensures the systems operate at peak performance.

Geothermal Heating Systems

Several campus buildings are equipped with geothermal heating systems that utilize underground heat sources, thereby decreasing dependence on fossil fuels and promoting the use of renewable energy.

Solar Energy Applications

Solar panels installed in various areas of the campus supplement electricity generation and reduce reliance on the national grid. This practice directly contributes to lowering carbon emissions and achieving renewable energy targets.

Insulation and Thermal Management

All campus buildings are equipped with high-performance insulation materials, heat-shielded radiators, and climate control systems to prevent energy losses. HVAC systems are optimized in real time through sensor data to ensure efficient energy consumption.

Biofuel Production Unit

Organic waste generated from campus dining facilities and landscaping activities is processed in a biofuel production unit, converting waste into energy. This initiative serves both educational and operational purposes, fostering a circular economy model.

High-Efficiency HVAC Systems

HVAC systems featuring variable speed drives and advanced filtration technologies minimize energy consumption while maintaining air quality. The demand-based operation principle prevents unnecessary energy use during periods of low occupancy.

Through the widespread implementation of high-efficiency devices across the campus, Kütahya Dumlupınar University aims to achieve both environmental sustainability and economic efficiency.

Kütahya Dumlupınar University has systematically implemented the use of high energy-efficiency devices across all its campuses, ranging from academic buildings to student dormitories. Within the university-wide inventory comprising a total of 2882 devices and systems, 2565 of them (91.74 %) are classified as high energy-efficiency units. This notably high proportion demonstrates the university's commitment to operationalizing its sustainability policies in energy management.

[2.2] Total Campus Smart Building Area

232186 m^2

[2.3] Smart Building Implementation

Our university's campus buildings, including the Faculty of Engineering, Faculty of Education, Faculty of Arts and Sciences, Faculty of Sport Sciences, Faculty of Applied Sciences, Faculty of Theology, School of Foreign Languages, and Simav Cultural Center, meet the smart building criteria defined in the **UI GreenMetric Smart Building Application Guidelines**.

These buildings enable real-time monitoring, analysis, and control of energy consumption through the **Central Building Energy Management System (BEMS)**. This allows for optimization of energy use and prevention of unnecessary consumption.

The main sustainability components within the smart building infrastructure are as follows:

- **Safety and Emergency Management:** All smart buildings are equipped with fire detection and suppression systems, burglar alarms, video surveillance, and flood prevention sensors, ensuring maximum building safety and resilience.
- **Energy Monitoring and Control Systems:** The energy consumption of each building is monitored and recorded through BEMS. This system generates regular analysis reports aimed at increasing energy efficiency and reducing the carbon footprint.
- **Water Management and Rainwater Harvesting:** All smart buildings have rainwater collection and reuse systems. These systems reduce water consumption and contribute to sustainable resource usage.
- **Air Quality and Indoor Environment Monitoring:** Indoor and outdoor air quality sensors continuously monitor temperature, humidity, and CO_2 levels, ensuring user comfort and maintaining indoor air quality standards.

- **High-Efficiency Lighting Systems:** Lighting is automatically regulated through occupancy sensors and daylight-responsive control systems, resulting in significant electricity savings.
- **Natural Lighting and Passive Systems:** Architectural designs maximize the use of natural daylight through window placement and reflective surface applications, reducing the need for artificial lighting.

These implementations demonstrate the university's commitment to environmental sustainability, energy efficiency, and user safety, positioning the institution as a leader in smart and green campus management.

[2.4] Number of Renewable Energy Sources in Campus

>3 sources

[2.5] Renewable Energy Sources and Their Amount of the Energy Produced

Kütahya Dumlupınar University continues to strengthen its sustainability goals and make steady progress in reducing its carbon footprint through the integration of renewable energy sources across the campus. The university's key renewable energy initiatives are summarized below:

Photovoltaic Solar Energy Systems

Since 2003, Kütahya Dumlupınar University has operated a photovoltaic (PV) solar energy system on its main campus. Through extensive reinforcement, panel replacement, and inverter modernization efforts, the system's total installed capacity has reached 500 kW. This system supplies a significant portion of the campus's electricity demand by directly converting solar radiation into clean electrical energy, thereby reducing dependence on fossil fuels and minimizing greenhouse gas emissions. As of 2025, the PV system generates an average of 610,000 kWh of electricity annually, corresponding to approximately 24% of the total campus electricity consumption.

Biomass (Biofuel) Production Unit

The on-campus biomass production unit achieved an annual production capacity of 30 tons of biofuel pellets in 2025 through process optimization, capacity enhancement, and automation system integration. This production process contributes significantly to waste management by recycling organic waste generated within the campus, providing an environmentally friendly alternative to fossil fuels. The annual production corresponds to approximately 150,000 kWh of electricity equivalent, demonstrating the implementation of a circular economy model at the campus scale.

Geothermal Heating Systems

The heating requirements of three academic buildings and the Olympic swimming pool are met through geothermal energy systems. In 2025, system optimization, the integration of additional heat exchangers, and the insulation improvements in pipeline infrastructure significantly enhanced system performance and overall energy efficiency. As a result, approximately 1,574,000 kWh of electricity equivalent energy savings were achieved, making a substantial contribution to environmental sustainability.

Wind Energy Potential and Planned Applications

Meteorological data, including long-term wind speed and direction measurements, are regularly collected by the on-campus meteorological observation station and analyzed using software such as WAsP. Detailed potential assessments identified suitable areas for wind energy investment, and technical feasibility

studies have been completed. The planned 2 MW-capacity wind turbine project aims to complement the existing solar and geothermal energy systems, further diversifying the university's renewable energy portfolio and enhancing its sustainable energy production capacity.

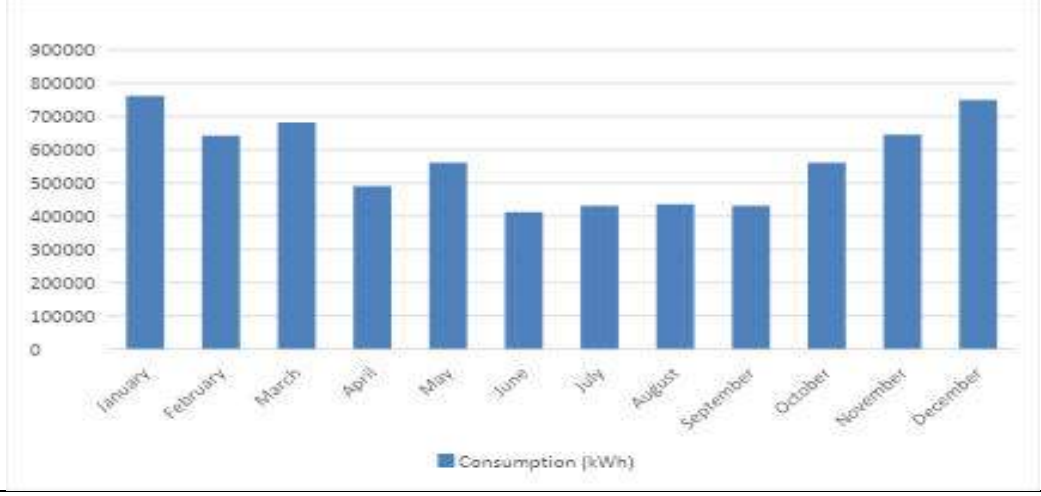
Overall Assessment

As of 2025, the total contribution of the university's renewable energy systems has reached 2,334,000 kWh.

This total comprises: 610,000 kWh from solar energy, 150,000 kWh from biomass energy, and 1,574,000 kWh from geothermal systems.

These results demonstrate that Kütahya Dumlupınar University has become a regional leader in sustainable energy production through the effective utilization of renewable energy resources. The university remains committed to increasing energy efficiency, reducing carbon emissions, and expanding investments in green infrastructure as part of its long-term sustainability strategy.

[2.6] Electricity Usage per Year



Electricity Usage (kWh) (Kütahya Dumlupınar University)

Total Electricity Usage (All Months) in 2024 (Kütahya Dumlupınar University, Türkiye)	
Months	**Consumption (kWh)**
January 2024	762.353,40
February 2024	642.372,75
March 2024	681.668,45
April 2024	490.027,65
May 2024	561.539,25
June 2024	412.654,50
July 2024	431.722,65
August 2024	436.076,55
September 2024	431.636,40

October 2024	560.725,05
November 2024	645.470,85
December 2024	750.706,20

$$Annual\ Total\ Electricity\ Usage =$$

$$762.353{,}4 + 642.372{,}75 + 681.668{,}45 + 490.027{,}65 + 561.539{,}25 + 412.654{,}5 + 431.722{,}65 + 436.076{,}55 + 431.636{,}4 + 560.725{,}05 + 645.470{,}85 + 750.706{,}2 = 6.806.953{,}7\ kWh$$

[2.7] The Total Electricity Usage Divided by Total Campus Population

$$= \frac{\textbf{Electricity usage per year } (kWh)}{\textbf{Total number of regular students+ Total number of academic and administrative staff}} = \frac{6.806.953{,}7}{47874+2196} = \mathbf{142.18}$$

[2.8] The Ratio of Renewable Energy Production Divided by Total Energy Usage Per Year

Renewable energy accounts for approximately one-third of the university's total electricity consumption.

[2.9] Elements of Green Building Implementation as Reflected in All Buildings

In the implementation of green building principles across all structures, key elements typically include passive design strategies such as maximizing natural daylighting (through skylights, large windows, and orientation), facilitating natural ventilation (via courtyards, operable windows, and hallway designs), and utilizing insulation and façade technologies to reduce thermal losses. In addition, institutional policy structures are essential—these cover the appointment of dedicated energy/building managers, formal mandates or guidelines in construction and renovation policies, and integration of green certifications or standards. Materials choices also play a major role—using sustainable, low-emitting, locally sourced or recycled materials. Furthermore, operational considerations such as energy-efficient systems (HVAC, lighting), water conservation (efficient fixtures, greywater reuse), and waste management are vital both during construction and in building operation. Collectively, these elements aim not only to reduce resource consumption and environmental impact but also to enhance occupant comfort, indoor environmental quality, and long-term building performance.

[2.10] Greenhouse Gas Emission Reduction Program

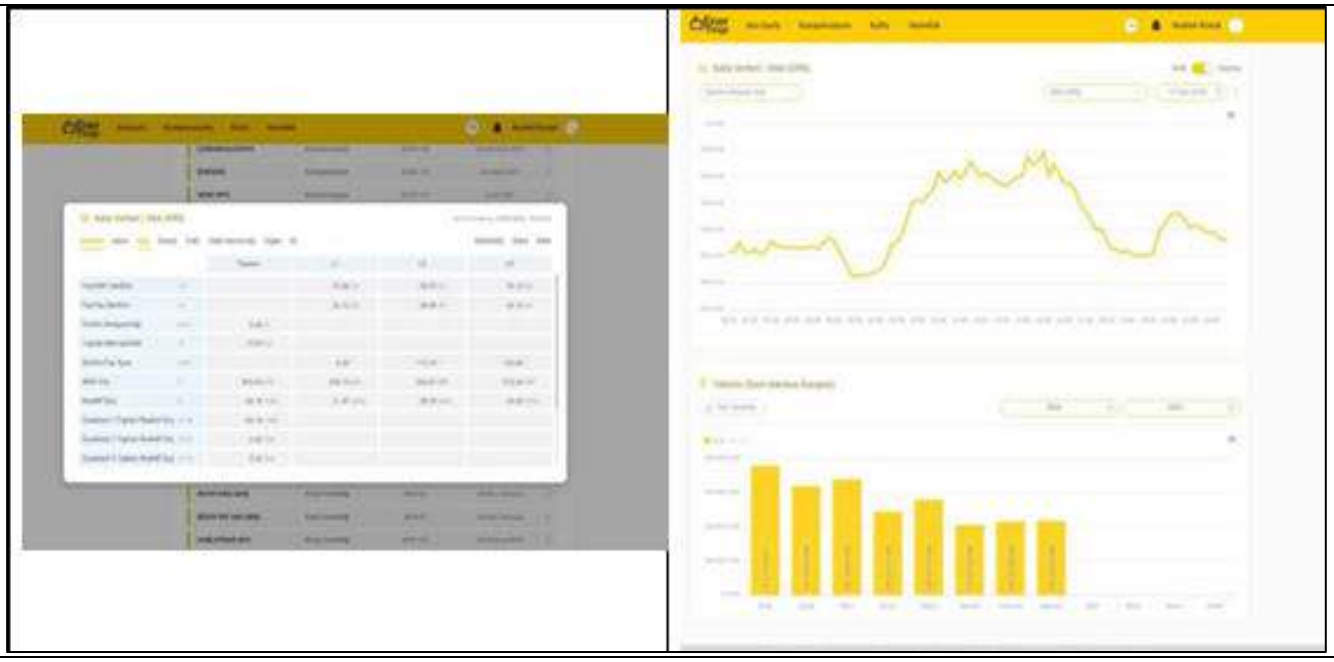
1. Energy Efficiency Programs
Building Energy Management Energy efficiency projects implemented by the university to reduce energy consumption in buildings. Kütahya Dumlupınar University aims to increase energy savings by using energy-efficient devices and implements energy management practices. Some of these practices include the use of efficient lighting. LED lighting and sustainable technologies are being deployed in buildings. The use of LED lighting and sensor systems, the selection of energy-efficient devices, and the monitoring and optimization of energy usage with building automation systems, as well as the use of transparent roof applications, increase energy efficiency.




LED lighting and sensor applications


Natural Light Lighting Applications

Heat Pump Applications for Energy Efficiency



Heat Pump Monitoring and Optimization Program

The installation of heat pump connections at Kütahya Dumlupınar University contributes significantly to the university's energy efficiency. Heat pumps provide heating and cooling by utilizing renewable energy sources obtained from air, water, or soil. These systems reduce fossil fuel consumption, leaving a lower carbon footprint while also minimizing energy consumption. With a higher heat production capacity per unit of energy compared to traditional systems, heat pumps help the university achieve its sustainability goals by reducing energy costs. Thanks to their environmentally friendly structure, these systems cause fewer greenhouse gas emissions, contributing to the university's compliance with international sustainability criteria.

Thermal Insulation and Insulation Works

Insulation projects to prevent heat loss in buildings, especially applications made with environmentally friendly materials

Use of Renewable Energy Resources

The university's energy production capacity with renewable energy sources such as solar panels, wind turbines, geothermal heating and the resulting carbon emission reduction.

5 kWh Solar PV Energy System Connected to the Campus Electricity Grid

2. Reducing Carbon Emissions in Transportation

DUSCART Alternative Energy Vehicles Community	
	
DUSCART is a racing team founded at Kütahya Dumlupınar University that participates in national competitions with electric and autonomous vehicles. Adopting an innovation, sustainability, environmental awareness, and technology-focused approach, DUSCART aims to develop the talents of our students. DUSCART has distinguished itself in the field of engineering by achieving numerous successes in national competitions.	
Mobile Electric Vehicle Charging Station	
	
Fast Charging Station for Electric Vehicles 150kW with ISO 14001 environmental management system certification	

Zero Carbon (CO2) Emission Electric Bicycle and Prepaid Vehicle

Kütahya Dumlupınar University actively uses the HEY (prepaid single vehicle) system to reduce traffic congestion on campus and provide sustainable transportation solutions. HEY is a carpooling system that encourages university staff and students traveling in the same direction to travel together in a single vehicle.

This system both reduces individual transportation costs and contributes to environmental sustainability by minimizing vehicle traffic on campus.

HEY plays an important role in the university's Greenhouse Gas Emission Reduction Program. Encouraging travel by a single vehicle directly contributes to reducing carbon emissions on campus and

also ensures more efficient use of parking spaces. This reduces fossil fuel consumption and significantly lowers air pollution and carbon footprint.

The use of the HEY system is one of the steps Dumlupınar University has taken towards becoming an environmentally friendly campus and contributes to the university's success in international sustainability criteria such as GreenMetric. This application aims to raise awareness for a sustainable future and increase interest in public transportation and environmentally friendly transportation alternatives.

Electric bicycles, motorcycles, and scooters are actively used on campus to facilitate transportation between buildings and help reduce emissions.

Kütahya Dumlupınar University Central Campus Bicycle Paths

Service Vehicles

KÜTAHYA DUMLUPINAR ÜNİVERSITY SHUTTLE HOURS		
TIME	ARRIVAL TIME	DEPARTURE TIME
ADMINISTRATIVE PERSONNEL SHUTTLE VEHICLE	08:30	17:30
SHUTTLE BUS	09:00	11:00
SECURITY PERSONNEL SHUTTLE VEHICLE	07:45	15:15
	15:15	23:15
	23:15	07:45
CLEANING STUFF SHUTTLE VEHICLE	07:45	17:45

Shuttle Services – Bus Times

Among the activities carried out at Kütahya Dumlupınar University are shuttle bus services serving students, faculty, and visitors on campus. This initiative is an important step towards providing more efficient and environmentally friendly transportation within the university. These shuttle bus services aim to reduce the carbon footprint across the campus by reducing individual vehicle use and encouraging the use of public transportation. This makes on-campus transportation more sustainable and contributes to the reduction of greenhouse gas emissions. This initiative serves as an example of one of Dumlupınar University's comprehensive strategies aimed at minimizing environmental impacts in line with sustainability principles. The university is taking significant steps to reduce carbon emissions on campus by developing an environmentally friendly transportation model through public transportation. The shuttle buses and minibuses of the Kütahya Municipality, Public Bus Cooperatives, and the Health and Culture Department provide free transportation to our students on campus.

DPU Road Sharing Application Example

Intelligent Vehicle Identification System

Kütahya Dumlupınar University has launched a vehicle recognition system (ATS) to regulate vehicle traffic on campus and reduce greenhouse gas emissions. This system monitors and controls vehicles entering and exiting the university. With the vehicle recognition system, only authorized vehicles can enter the campus, and unauthorized vehicles are not permitted to enter. This application makes significant contributions to the university's energy efficiency and environmental sustainability efforts. The ATS system reduces traffic congestion by limiting the number of vehicles on campus and ensures more efficient use of parking areas. Reducing the number of vehicles also reduces carbon emissions produced on campus, contributing to the university's goal of becoming an environmentally friendly campus. At the same time, this application encourages the use of public transportation, and environmentally friendly transportation options such as bicycle and pedestrian paths are preferred more.

The ATS application can be considered a strategic step to minimize the environmental impact of the campus by ensuring that vehicles entering the campus are regularly monitored and controlled. When used in conjunction with parking lot vehicle counting, this system increases the success of efforts to

efficiently manage vehicle traffic on campus and reduce greenhouse gas emissions. Our university continues to pursue its vision of creating an environmentally conscious and sustainable campus through this and similar applications.

Use of digital systems (vehicle counting, etc.) to regulate on-campus traffic and public transport mobility.



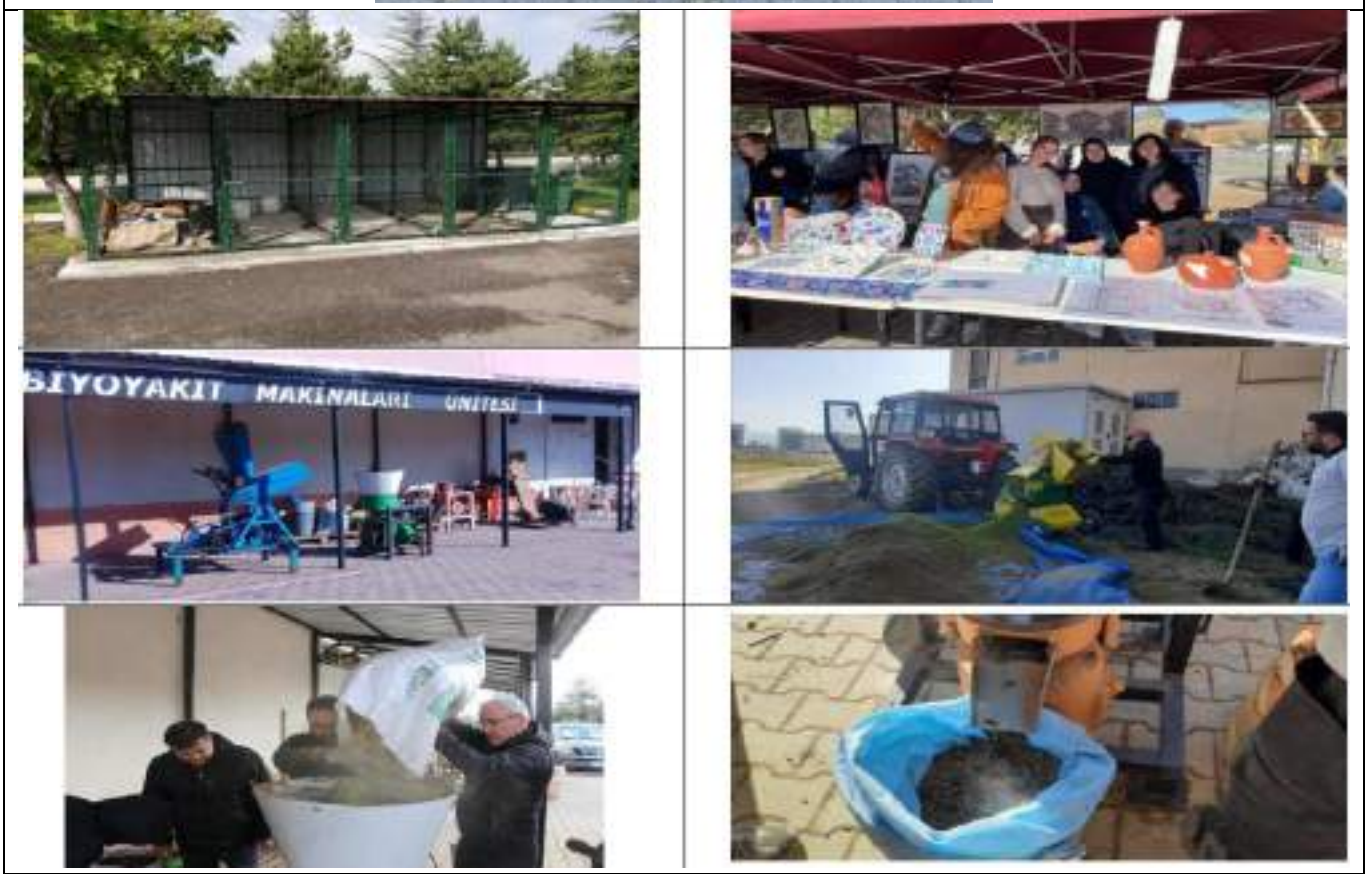

Kütahya Dumlupınar University effectively utilizes technology to contribute to its sustainability goals and reduce greenhouse gas emissions. To this end, Unmanned Aerial Vehicles (UAVs) are used to continuously count parking lot vehicles to monitor vehicle traffic in parking lots and reduce the carbon footprint of vehicles on campus. This innovative approach significantly contributes to the university's energy efficiency and sustainability efforts. Parking lot vehicle counts are conducted regularly using UAVs, and data on parking lot occupancy rates and vehicle traffic on campus are precisely monitored. This system allows the university to monitor vehicle usage on campus and develop various sustainable transportation solutions as needed.

E-Attendance system

At Kütahya Dumlupınar University, the transition to the new software was completed in all departments and the transition to the Digital E-Attendance Application (paperless) was achieved

The Digital E-Attendance application, launched at Kütahya Dumlupınar University, is innovative. Unlike traditional paper-based attendance systems at universities, our system provides the convenience of taking attendance without distracting students. Reliable and secure, E-Attendance allows you to securely track your students' attendance in class, and all data is stored on our university's own servers. It offers easy integration. E-Attendance is easily integrated with the Student Management System (OSB) system, allowing for immediate installation and quick transition to E-Attendance. Its most important feature is its cost-effectiveness. E-Attendance eliminates paper waste and reduces the workload of our faculty, saving time. E-Attendance is fast and easy, allowing students to quickly and easily enroll in class within the timeframe specified by faculty. Furthermore, E-Attendance saves paper and time, preventing late-semester workloads.

3. Waste Management and Recycling



Recycling Workshops Exhibition, Waste Separation and Storage Example, Biofuel Applications

Conversion of organic waste into fertilizer

Green Transportation Incentives

Projects such as the installation of public transportation, bike paths, and electric vehicle charging stations to reduce carbon emissions in on-campus and off-campus transportation.

Campus Route 100% Electric Bus Service in Partnership with Local Municipality

PV System Electric Charging Station

4. Afforestation

By increasing carbon sequestration through afforestation efforts in the Kütahya Dumlupınar University Campus area, the amount of quality green space within the campus is increased.

Smoke-free air

The Young Green Crescent Society was established to foster an atmosphere of moral and cultural development for students at Kütahya Dumlupınar University. It aims to combat addictions that harm the physical and mental health of society and youth, such as tobacco (cigarette), alcohol, and substance abuse, as well as gambling, internet, and technology addiction, all of which harm youth and society. It also aims to raise generations committed to their national culture.

To this end, the Society mobilizes society's awareness, strength, and resources to combat addictions. It provides assistance to those in need at all times, places, and under all circumstances, to protect human dignity and respect. It also continuously contributes to the development of society's capacity to combat addiction.

To this end, it develops the necessary collaborations and collaborative projects with national and international public, private, and non-governmental organizations.

Smoking areas within the Kütahya Dumlupınar University Campus are restricted to the maximum extent. The goal is to make the campus smoke-free in the future.

Our university is committed to significantly reducing its greenhouse gas (GHG) emissions through a comprehensive range of initiatives aimed at promoting energy efficiency, the use of renewable energy, sustainable transportation, and waste management. Below are the key components of our GHG emission reduction program, with relevant examples provided as evidence:

1. **LED Lighting Examples (Scope 2)**

Energy-efficient LED lighting systems have been installed across campus facilities, reducing energy consumption and cutting down on emissions related to traditional lighting methods. This transition is part of a larger effort to phase out energy-intensive lighting sources.

2. **Energy Efficient Appliances (Scope 2)**

The university has adopted energy-efficient appliances, ensuring that all equipment meets or exceeds energy efficiency standards. This includes the use of low-consumption air conditioning systems, refrigerators, and other electronic devices to reduce energy demand.

3. **Monitoring and Optimizing Energy Use (Scope 2)**

A centralized energy monitoring system is in place to track, assess, and optimize energy consumption across the campus. This system allows for real-time data analysis, leading to more efficient energy use and a decrease in overall carbon emissions.

4. **Thermal Insulation and Insulation Works (Scope 1)**

Buildings on campus have undergone retrofitting to enhance thermal insulation using eco-friendly materials approved by the Ministry of Environment, Urbanization, and Climate Change. These efforts reduce the need for heating and cooling, resulting in lower energy use and GHG emissions.

5. **Use of Renewable Energy Sources (Scope 2)**

The university is actively increasing its reliance on renewable energy sources. This includes solar and wind energy installations to supplement the campus energy grid and reduce dependence on fossil fuels.

6. **Mobile Electric Vehicle Charging Station (Scope 3)**

A mobile electric vehicle (EV) charging station has been introduced, promoting the use of electric vehicles among staff and students and reducing reliance on gasoline-powered vehicles.

7. **Solar Panel Examples (Scope 2)**

Solar panels have been installed on various buildings, utilizing renewable solar energy for electricity production. These panels provide a significant portion of the campus's energy needs, further reducing GHG emissions.

8. **Wind Measurement Station (10m and 30m) (Scope 2)**

The campus has established wind measurement stations at 10-meter and 30-meter heights to assess wind energy potential. This data informs future wind energy projects, further integrating renewable energy into the campus infrastructure.

9. **Biofuel Machines Unit (Scope 3)**

The biofuel machines on campus convert organic waste into biofuel, which is then used to power specific university operations, providing a sustainable energy alternative and contributing to a circular waste economy.

10. **Geothermal Heating System (Scope 1)**

The university employs a geothermal heating system to provide energy-efficient heating to various facilities. This reduces the need for traditional heating methods that contribute to higher carbon emissions.

11. **Green Transportation Incentives (Scope 3)**

To encourage sustainable commuting, green transportation incentives are offered to students and staff who choose low-carbon alternatives like electric vehicles, bicycles, or public transportation.

12. **Campus Route 100% Electric Bus Service in Partnership with Local Municipality (Scope 3)**

In partnership with the local municipality, the campus operates a 100% electric bus service, providing a zero-emission alternative for campus transportation.

13. **Personnel Shuttle Vehicles (Scope 3)**

Shuttle services for university personnel are designed to reduce the number of private vehicles on campus, minimizing GHG emissions from individual commuting.

14. **Bicycle Paths (Scope 3)**

Dedicated bicycle paths have been established to promote cycling as a sustainable mode of transportation, reducing vehicle emissions and supporting an active, eco-friendly lifestyle.

15. Installation of Electric Vehicle Charging Stations (Scope 3)

The installation of multiple electric vehicle charging stations across campus encourages the use of EVs, supporting the reduction of emissions from gasoline-powered cars.

16. Our DUSCART Award Winning Electric Vehicle (Scope 3)

The university proudly showcases its award-winning DUSCART electric vehicle, a project developed by students and faculty to demonstrate the potential for innovation in electric transportation.

17. Road Sharing Application Example (Scope 3)

A campus-specific road-sharing application allows students and staff to carpool or share rides, significantly reducing the number of vehicles on the road and lowering emissions.

18. Example of a Recycling Program for University Waste (Scope 3)

The university has implemented a comprehensive recycling program, ensuring the separation and proper disposal of recyclable materials, which helps reduce landfill waste and GHG emissions.

19. Waste Segregation and Storage Example (Scope 3)

Waste segregation bins are placed throughout the campus to encourage the proper disposal of waste, enhancing recycling rates and ensuring organic waste is composted, thus minimizing methane emissions from landfills.

20. Recycling Workshops Exhibition (Scope 3)

Regular workshops and exhibitions on recycling and waste management are organized to educate students and staff on best practices, fostering a campus-wide culture of sustainability.

21. Composting Organic Waste into Fertilizer (Scope 3)

Organic waste generated on campus is composted and converted into fertilizer, reducing waste sent to landfills and providing a valuable resource for campus landscaping projects.

22. Tree Planting Projects (Scope 1)

In line with our commitment to carbon sequestration, the university runs annual tree-planting projects, helping to absorb atmospheric CO2 while beautifying the campus.

[2.11] Total Carbon Footprint

The total carbon footprint of Kütahya Dumlupınar University in a year is 5867.17 metric tons.

As other data are for the main campus, electricity consumption is taken only for the main campus.

The daily on-campus distance traveled for each expedition is 5 km. taken as.

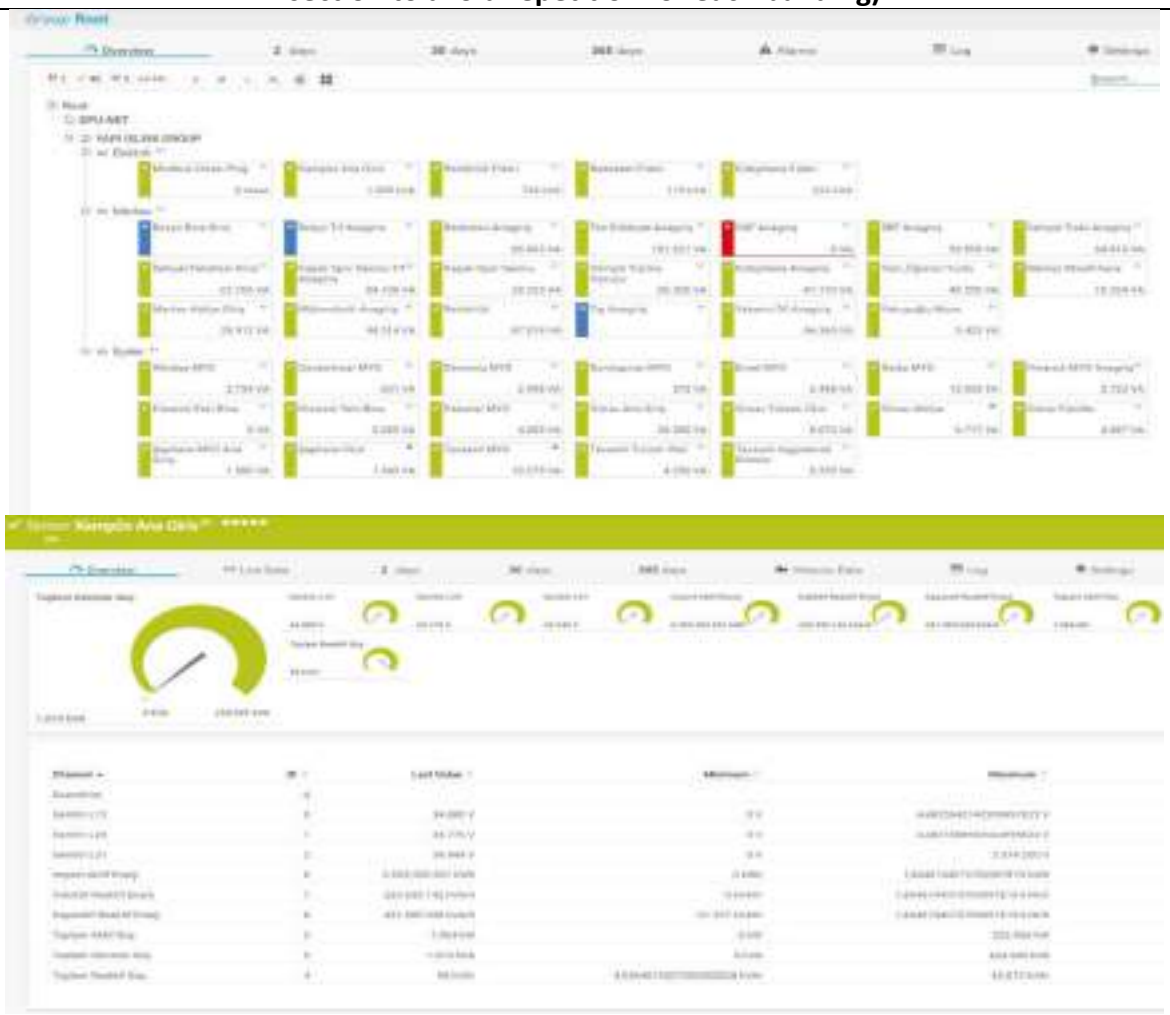
For each vehicle, the daily average distance traveled was doubled (1.5 km) from the main campus entrance to the rectorate.

[2.12] The Total Carbon Footprint Divided by Total Campus Population

$$T = \frac{\textbf{Electricity usage per year } (kWh)}{\textbf{Total number of regular students} + \textbf{Total number of academic and administrative staff}} = \frac{5867.17}{47874} = \mathbf{0.1225}$$

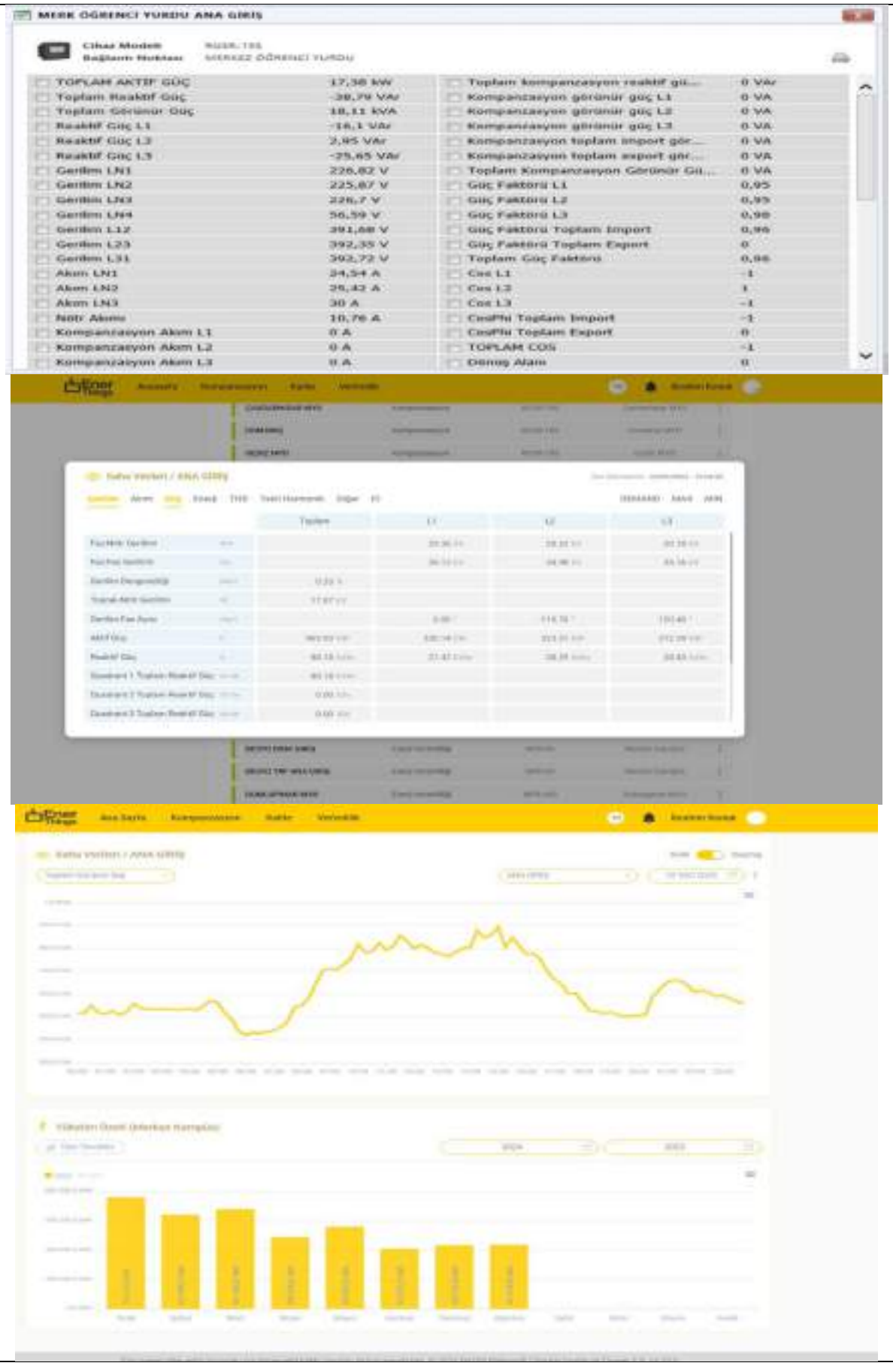
[2.13] The Number of Innovative Program(s) in Energy and Climate Change

Examples of Centralized and Shared Applications in All Buildings on Our Campus (Provided in this section to avoid repetition for each building)



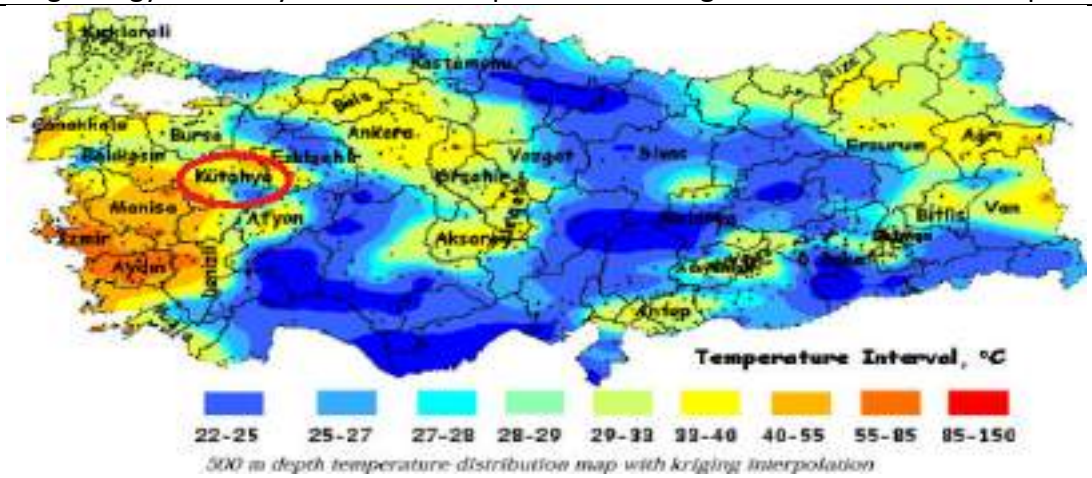
Central energy monitoring software to monitor and record the energy consumption of every building

Relevant personnel from the Construction Department can access, monitor, and record data 24 hours a day, including via mobile phones. The real-time energy consumption of every building on campus is monitored and recorded using this application. Any deviation from the set values triggers an immediate alert to identify potential faults.


MEBK ÖĞRENCİ YURDU ANA GİRİŞ
Cihaz Modeli
Bağlantı Noktası
MERKEZ ÖĞRENCİ YURDU
TOPLAM AKTİF GÜÇ 17,38 kW
Toplam Reaktif Güç -38,79 VAr
Toplam Görünür Güç 18,11 kVA
Reaktif Güç L1 -16,1 VAr
Reaktif Güç L2 2,95 VAr
Reaktif Güç L3 -25,65 VAr
Gerilim LN1 226,82 V
Gerilim LN2 225,87 V
Gerilim LN3 226,7 V
Gerilim LN4 56,59 V
Gerilim L12 391,68 V
Gerilim L23 392,35 V
Gerilim L31 392,72 V
Akım LN1 34,54 A
Akım LN2 35,42 A
Akım LN3 30 A
Nötr Akımı 10,76 A
Kompanzasyon Akım L1 0 A
Kompanzasyon Akım L2 0 A
Kompanzasyon Akım L3 0 A
Toplam kompanzasyon reaktif gü... 0 VAr
Kompanzasyon görünür güç L1 0 VA
Kompanzasyon görünür güç L2 0 VA
Kompanzasyon görünür güç L3 0 VA
Kompanzasyon toplam import gör... 0 VA
Kompanzasyon toplam export gör... 0 VA
Toplam Kompanzasyon Görünür Gü... 0 VA
Güç Faktörü L1 0,95
Güç Faktörü L2 0,99
Güç Faktörü L3 0,98
Güç Faktörü Toplam Import 0,96
Güç Faktörü Toplam Export 0
Toplam Güç Faktörü 0,96
Cos L1 -1
Cos L2 1
Cos L3 -1
CosPhi Toplam Import -1
CosPhi Toplam Export 0
TOPLAM COS -1
Dönüş Alanı 0

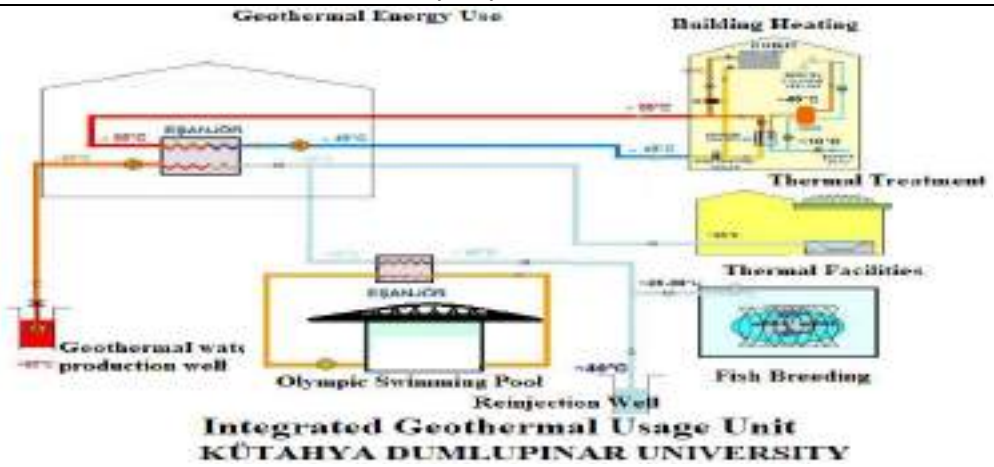
Real-Time Monitoring and Recording of Electrical Data in University Buildings (BMS)
(Kütahya Dumlupınar University, Türkiye)

At our university, every electrical panel located at the entrances of buildings is continuously monitored in real time. Electrical data, including consumption, voltage levels, and other important metrics, is regularly tracked and recorded through an automated system. This enables precise control of energy usage, timely detection of inefficiencies, and proactive maintenance to ensure our energy systems operate optimally. By implementing this real-time monitoring approach, we are committed to increasing energy efficiency across the campus and reducing our environmental footprint.



500 m depth temperature distribution map with kriging interpolation

Referans : Basel, E. D. K., Serpen, U., & Satman, A. (2010). Türkiye's geothermal energy potential: updated results. In Proc. 35th Workshop on Geothermal Reservoir Eng., Stanford University, Stanford, CA, SGP-TR-188.



Geothermal energy utilization plan

Examples of geothermal water discharge at different temperatures in Kütahya
(Kütahya Dumlupınar University, Türkiye)



Geothermal energy management center, heat exchanger and pump systems (Kütahya Dumlupınar University, Türkiye)






Underground stations and control elements (Kütahya Dumlupınar University, Türkiye)



Geothermal water channels leading to the Physical Therapy and Rehabilitation Hospital and Olympic Swimming Pool (Kütahya Dumlupınar University, Türkiye)

Green Transportation Incentives

Projects such as establishing **public transportation**, **bicycle lanes** and **electric vehicle charging stations** to reduce carbon emissions in on-campus and off-campus transportation.

100% Electric Bus Service on Campus Route in Partnership with Local Municipality



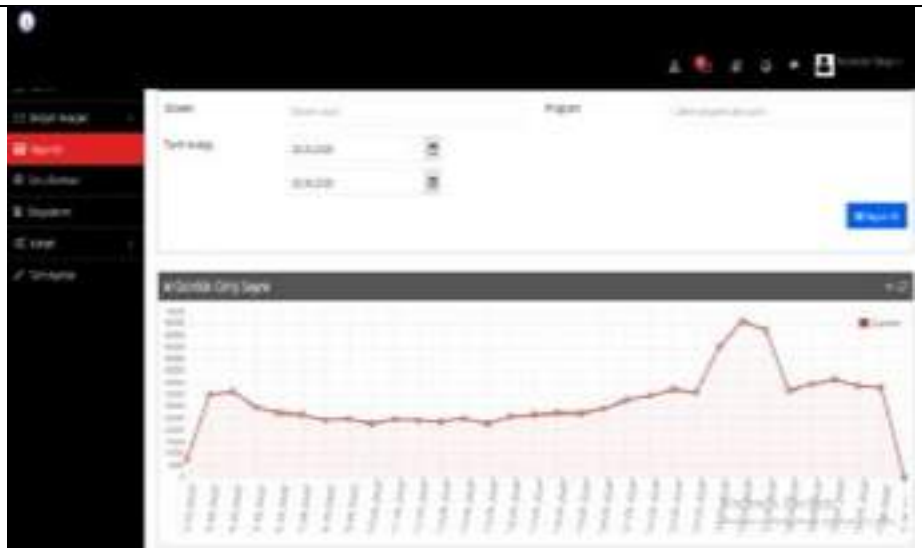

Bike lanes (Kütahya Dumlupınar University, Türkiye)




Installation of electric vehicle charging stations (Kütahya Dumlupınar University, Türkiye)



Award-winning DUSCART electric vehicles (Kütahya Dumlupınar University, Türkiye)



Distance Learning System Administrator Interface, Distance Learning System Reports, Distance Learning System Usage Statistics (Kütahya Dumlupınar University, Türkiye)

Waste Separation and Storage Example (Kütahya Dumlupınar University, Türkiye)

Recycling Workshops Exhibition (Kütahya Dumlupınar University, Türkiye)

Conversion of organic waste into fertilizer (Kütahya Dumlupınar University, Türkiye)

Creating ponds for smart and efficient plant irrigation through rainwater recycling
(Kütahya Dumlupınar University, Türkiye)


Pool 1


Pool 2


Pool 3

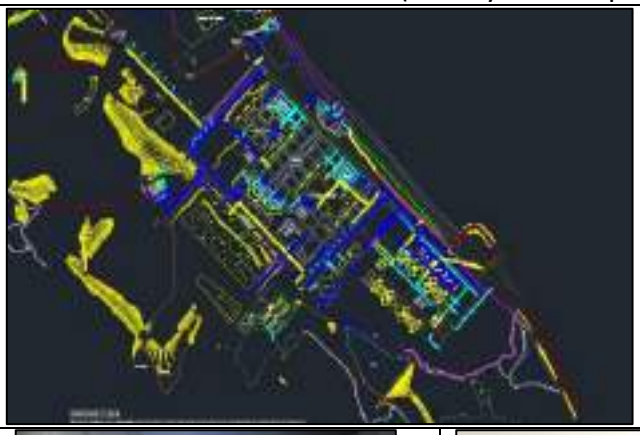
Historical Development (Kütahya Dumlupınar University, Türkiye)


Before the year 2000


2010


2024

Underground and Surface Water Channels and Main Storage Centers
(Kütahya Dumlupınar University, Türkiye)

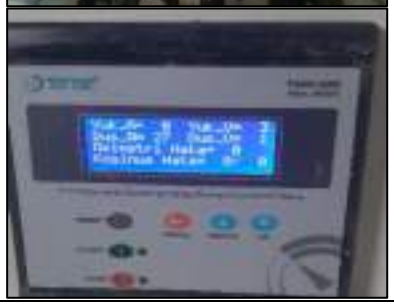












Discharging rainwater into the lake on a rainy day (Kütahya Dumlupınar University, Türkiye)

The feeding of lakes by groundwater (Kütahya Dumlupınar University, Türkiye)

Smart and efficient irrigation (Kütahya Dumlupınar University, Türkiye)

Fishing event for people with disabilities and their families (Kütahya Dumlupınar University, Türkiye)

Solar Energy – Wind Energy Feasibility Study
(Kütahya Dumlupınar University, Türkiye)

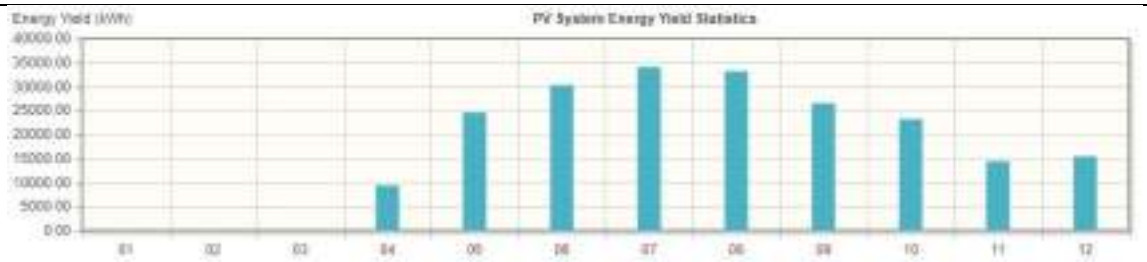
Examples of Solar Panel Systems

Examples of Solar Panel Systems

Examples of Solar Panel Systems

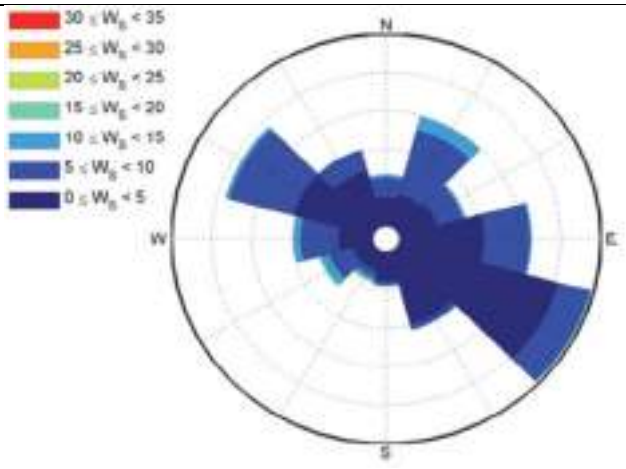
Examples of Solar Panel Systems

PV System Installation (180 kW)

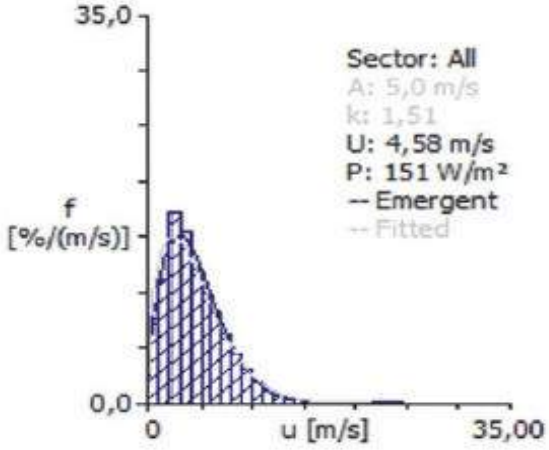


Wind Measurement Station

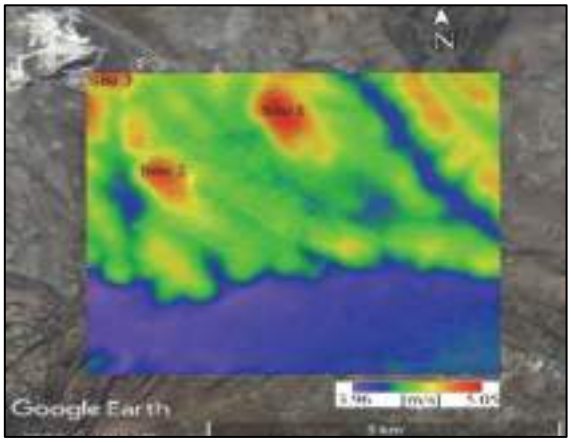
Wind Measurement Station (10 m and 30 m)



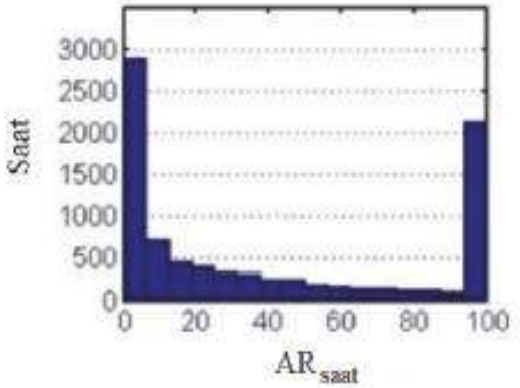
Wind Speed and Direction (30 m AGL)



Wind Frequency on Campus (30 m AGL)

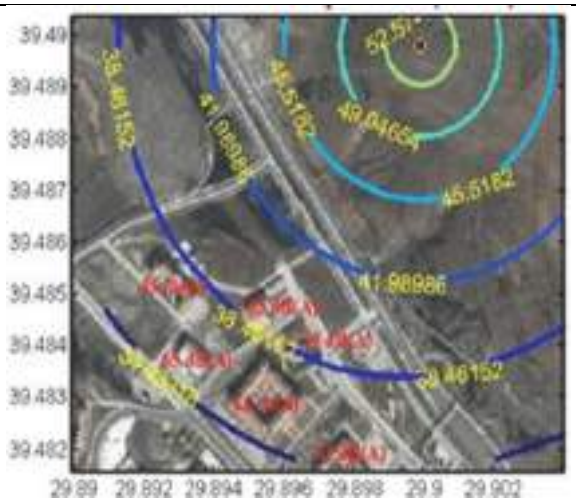


Campus Wind Speed Feasibility Study



2 MW Wind Turbine Hourly Instantaneous Electricity Coverage Analysis Example

Potential Wind Turbine Locations on Campus Locations (Kütahya Dumlupınar University, Türkiye)



Wind turbine noise propagation analysis and the maximum permissible noise level values for each building (Kütahya Dumlupınar University, Türkiye)

Our university has implemented a comprehensive range of innovative programs and systems focused on energy management and mitigating the effects of climate change. Each of these programs and systems contributes to making the campus more sustainable. The diversity and impact of these initiatives clearly demonstrate our commitment to sustainability and innovation, ensuring we achieve full marks in this category. Here is a general overview of the key programs:

1. **Central Energy Management Software:**

State-of-the-art central energy management software continuously monitors and optimizes energy consumption in campus buildings. The platform supports increased efficiency by providing real-time data and analysis, enabling us to effectively minimize energy waste.

2. **Geothermal Heating System:**

Several campus buildings are heated using geothermal energy, significantly reducing our dependence on traditional fossil fuels. This renewable energy source provides consistent heating throughout the year, reduces carbon emissions, and increases overall energy efficiency. Photos of the system in operation have been included to demonstrate our commitment.

3. **Green Transportation Initiatives:**

We have taken proactive steps toward sustainable transportation with initiatives focused on our award-winning DUSCART electric vehicle. Designed and manufactured by our students, DUSCART exemplifies our commitment to green innovation and reducing campus-based emissions. Additionally, one electric official vehicle was purchased for our university to reduce carbon emissions. In collaboration with the local municipality, we offer a bus public transportation service that runs on 100% electric energy within the campus. Bike-friendly routes and walkable campus paths encourage low-carbon transportation options.

4. **Online Training Module for Reducing Carbon Footprint:**

By implementing a robust distance learning module, we can offer flexible and accessible education options. This reduces the need to be on campus, lowering transportation-related emissions and supporting the reduction of the carbon footprint.

5. **Waste and Resource Management Programs:**

Our campus has composting machines for organic waste management, and organic waste produced on campus is converted into nutrient-rich compost. In addition, we have organized a unique exhibition featuring artworks created from recycled materials, highlighting the importance of waste reduction and sustainable practices within our community.

6. **Water Conservation and Rainwater Harvesting Systems:**

Three artificial ponds created using rainwater and groundwater sources collected on campus provide the necessary water reserves for irrigation and habitat support. This system reduces dependence on external water sources, promotes biodiversity, and is consistent with our water conservation goals.

7. **Renewable Energy Projects:**

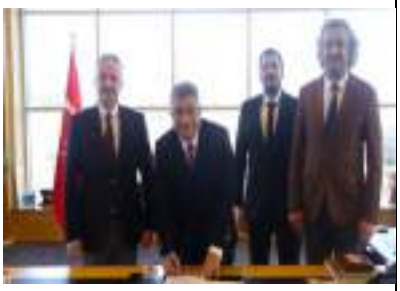
Our 180kW photovoltaic solar power plant generates clean energy for campus use. Additionally, a call for bids has been issued for a 1 MW PV solar power plant on the grounds of our Simav Faculty of Technology, and discussions are underway with installation companies. In the field of wind energy, a feasibility study has been conducted, and we are in the process of obtaining the necessary approvals for a 2 MW wind turbine. These renewable energy projects promote sustainability by diversifying our energy sources.

Given these diverse and effective initiatives, the number of our energy and climate change programs is not only more than three but also represents a multifaceted approach to sustainable development. Our comprehensive strategy for energy management, renewable resource utilization, and climate resilience has positioned our university as a leader in sustainability innovation. We are confident that we will receive full marks for our comprehensive and innovative contributions to energy and climate change.

Program/Initiative	Explanation	Impact
Central Energy Management	Real-time monitoring and energy optimization	Energy efficiency
Geothermal Heating	Renewable heating for campus buildings	Reduced emissions
DUSCART Electric Vehicles and Green Transportation	Award-winning electric vehicle produced by students; promotes eco-friendly transportation	The campus's carbon footprint has been reduced
Distance Learning Module	Facilitates distance learning, reducing campus transportation	Reducing the carbon footprint

Compost Machines and Recycled Art Exhibition	Organic waste processing and waste reduction awareness	Minimizing waste
Rainwater Harvesting and Artificial Ponds	Water conservation through rainwater and groundwater collection	Efficient use of water resources
Solar Power Plant and Wind Turbine Feasibility Study	Clean energy production using solar energy; wind energy studies are ongoing	Use of renewable energy

[2.14] Impactful University Program(s) on Climate Change

NO	PROGRAM	SCOPE (international / regional / national / local / etc.)	TOTAL PARTICIPANT	PHOTO	URL	EXPLANATION
1	World Water Day Project	National	5 Teaching Staff 71 students		https://haber.dpu.edu.tr/tr/haber_oku/6601312969bfc/dpude-dunya-su-gunu-etkinligi	Kütahya Dumlupınar University Faculty of Education organized a conference on the efficient use of water resources on World Water Day.
2	"A Sapling, A Hope: Greening the Future" Conference	Local	4 Academic Staff 50+ students		https://emetmyo.dpu.edu.tr/tr/index/sayfa/15634/emet-myoda-bir-fidan-bir-umut-gelecegi-yesillendirme k-konferansi-duzenlendi	Within the scope of the Practical Course in Preschool Education Institutions, a conference titled "A Sapling, A Hope: Greening the Future" was held by Arif İnce, a nursery technician at the General Directorate of Forestry.
3	NATO-SPS Project Support	International	5 Academic Staff		https://haber.dpu.edu.tr/tr/haber_oku/6773d94f5034a/dpuye-ilk-kez-nato-sps-proje-destegi	The project titled "High-Entropy Boride Materials for Energy Storage Devices," led by Kütahya Dumlupınar University, has been awarded funding from the NATO Science for Peace and Security Program (NATO-SPS).

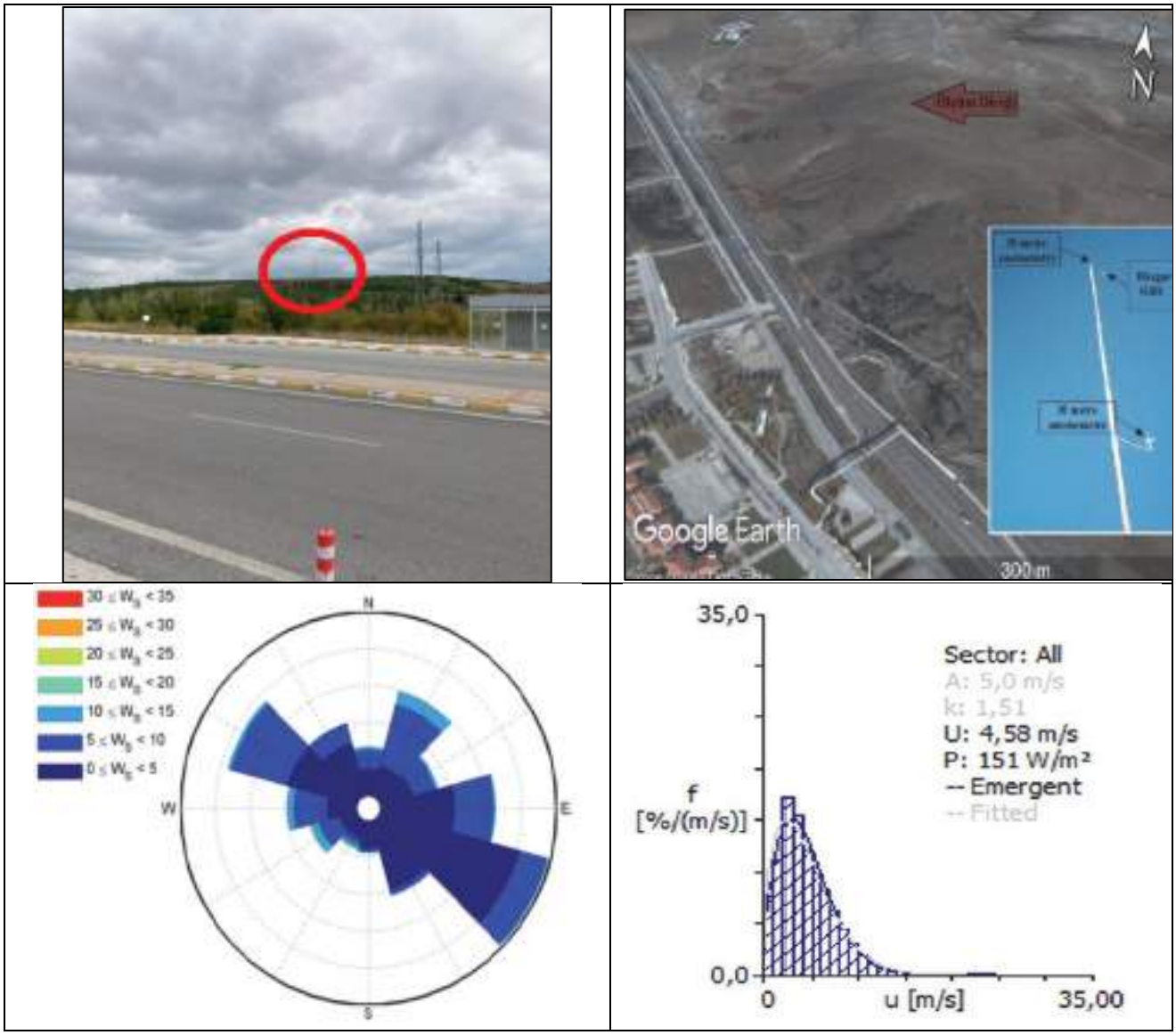
4	Groundbreaking Technologies for Electric Vehicles Conference	Local	8 Academic Staff 50+ students		https://haber.dpu.edu.tr/tr/haber_oku/675fdabb395aa/dpude-elektrikli-araclar-icin-cigir-acan-teknolojiler-konferansi	A conference titled New Horizons in Energy Storage: Groundbreaking Technologies for Electric Vehicles was held at Kütahya Dumlupınar University, with Dr. Recep Yüksel, Assistant Professor, participating as a speaker.
5	Efficiency Challenge Electric Vehicle Race TEKNOFEST	National	1000+ participants		https://haber.dpu.edu.tr/tr/haber_oku/66ffeaa11709f/dpu-teknofest-2024te-yine-zirvede	It received the DUSCART award in the Visual Design category.
6	Robotaxi Passenger Autonomous Vehicle Competition TEKNOFEST	National	1000+ participants		https://haber.dpu.edu.tr/tr/haber_oku/66f414f7d94e3/dpu-duscarttan-teknofestte-Türkiye-ikinciligi	DUSCART Autonomous also secured second place for Türkiye in the Robotaxi Passenger Autonomous Vehicle Competition.
7	Technology and Design Exhibition	Local	50+ students		https://haber.dpu.edu.tr/tr/haber_oku/666307eb3bce4/dpu-ktbmyodan-teknoloji-ve-tasarim-sergisi	An exhibition titled Technology and Design, featuring the work of students from the Kütahya Technical Sciences Vocational School (DPÜ KTBMYO) at Kütahya Dumlupınar University, was held.

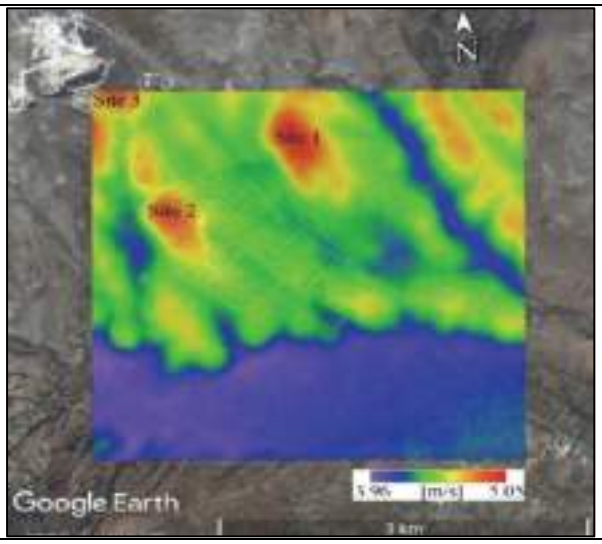
8	DPU 2nd Project Market Competition	National	147 participants		https://haber.dpu.edu.tr/tr/haber_oku/665480d93080b/dpude-2-proje-pazarinda-oduller-sahiplerini-buldu	2. Project Market In the High School and Middle School category, Meliha Rüveyda Vatansever, Duru Aras, and Berra Uysal's project titled "Producing New Products by Recycling Cigarette Butts and Raising Environmental Awareness" and Bennu Akgün and İpek Uysal's project titled "Cleaning Microplastics in Wastewater Using Tetraethyl Orthosilicate" won the joint first prize.
9	TÜBİTAK 2209-A, 2209-B Research Project Support Program	National	2 Academic Staff 3 students		https://haber.dpu.edu.tr/tr/haber_oku/66041d5b89ee6/tubitaktan-dpuye-23-projede-destek	Two projects titled "Implementing Efficiency Tracking with Machine Learning Using Sunlight-Sensitive Solar Panels" and "Development of New Generation Energy-Efficient Ceramics" have been awarded project support by TÜBİTAK.
10	Blue and White Stories Exhibition	Local	27+ participants		https://haber.dpu.edu.tr/tr/haber_oku/6706257302739/dpuden-mavi-beyaz-hikayeler-sergisi	An exhibition titled Blue and White Stories was opened at the Ahmet Yakupoğlu Museum by Associate Professor Dr. Oya Aşan Yüksel, an academic from the Department of Glass and Ceramics at the Faculty of Fine Arts, Kütahya Dumlupınar University.

11	Anatolia Jewelry and Accessories Congress and International Selective Anatolia Exhibition	International	64 participants		https://haber.dpu.edu.tr/tr/haber_oku/6706733f5e87d/dpuden-anadolu-mucevher-ve-taki-kongresi-ve-sergi-sanatcilarina-odul	An award ceremony was held at the Bedesten with the participation of our Rector Prof. Dr. Süleyman Kızıltoprak for the artists who participated in the International Anatolian Jewelry and Accessories Congress and the International Selective Anatolian Exhibition hosted by our university.
12	March 8 International Women's Day Poster Exhibition	International	55 participants		https://haber.dpu.edu.tr/tr/haber_oku/65eb947c35e9a/dpude-8-mart-dunya-kadinlar-gunu-afis-sergisi-acildi	The opening ceremony of the International Poster Exhibition for International Women's Day on March 8 was held at our Faculty of Fine Arts at Kütahya Dumlupınar University with the participation of Kütahya Governor Musa Işın and our Rector Prof. Dr. Süleyman Kızıltoprak.
13	Aizanoi Ceramics and Tile Design Contest	National	200+ participants		https://haber.dpu.edu.tr/tr/haber_oku/663dbdc682e23/aizanoi-seramik-ve-cini-tasarim-yarismasi-sergiyle-sona-erdi	The closing ceremony and exhibition of the 1st National Aizanoi Ceramic and Tile Design Competition, organized by DPÜ Kütahya Vocational School of Fine Arts, was held with the participation of the Kütahya provincial protocol.

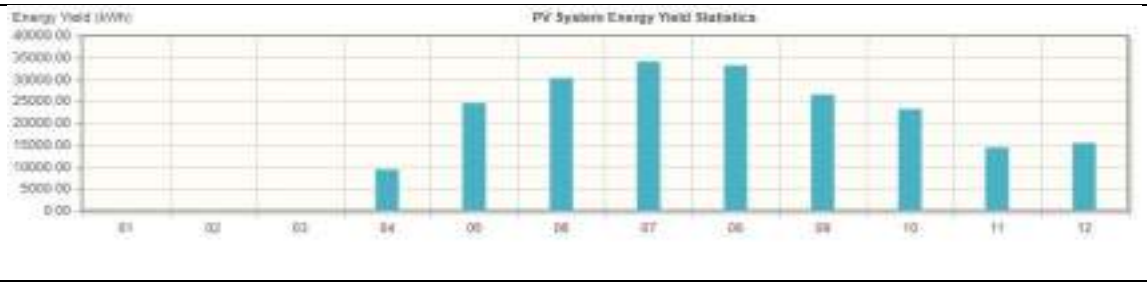
[2.15] Planning, Implementation, Monitoring and/or Rvaluation of All Programs Related to Energy and Climate Change through the Utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Assess the potential of wind power facilities	Analysis with WAsP software	Feasibility studies, field assessment reports	January 2021 - April 2025	Faculty of Engineering Mechanical Engineering
Implementation	Installation of solar panels	Layout analysis with PV*SOL software	Installation logs, energy production data	May 2022 - April 2025	Construction Department
Monitoring	Monitoring renewable energy production	Renewable energy monitoring systems	Energy production reports, performance analysis	It continues	Construction Department





Assessing the potential of wind power plants
(Kütahya Dumlupınar University, Türkiye)



Solar panel installation, monitoring renewable energy production
(Kütahya Dumlupınar University, Türkiye)

Planning:

The university strategically plans energy and climate change initiatives to improve campus sustainability and optimize renewable energy sources, using advanced software tools such as WAsP and PVSOL for sensitive evaluation. For wind energy, WAsP (Wind Atlas Analysis and Application Program) software is used to analyze meteorological data, including wind speeds and directions, enabling the accurate identification of potential wind turbine locations across the campus. For solar energy, PVSOL software is used to assess sunlight exposure and structural suitability, helping to identify ideal roofs and open areas for solar panel installations. These renewable energy projects are planned to increase energy independence, reduce dependence on non-renewable resources, and contribute to environmental goals. In addition, ICT-based energy monitoring systems are planned to efficiently monitor renewable energy production and ensure alignment with the campus's sustainability goals.

Implementation:

Following the planning phase, renewable energy facilities and monitoring systems are being implemented across the campus. Wind energy plans are being carried out by identifying and preparing installation sites for potential wind turbines, guided by ICT-focused analyses to optimize energy capture. For solar energy, PV panels with a total installed capacity of 180 kW have been implemented in selected campus areas. These solar panels are strategically placed in locations determined by PVSOL analysis, and real-time monitoring systems are integrated into each unit to monitor production levels and efficiency. This ICT integration facilitates instant data collection and analysis for effective energy management by providing seamless connectivity to the campus energy grid. These renewable energy facilities are supported by a robust data collection and processing infrastructure to accurately monitor performance and support responsive energy usage adjustments.

Monitoring:

Monitoring is carried out through an advanced ICT-based system that tracks and analyzes energy production from all renewable sources in real time. For wind energy, continuous monitoring of wind models validates initial site assessments and optimizes turbine performance. Solar panel systems generate live data on production levels and system efficiency. This data is recorded and analyzed to inform maintenance and operational decisions. The energy monitoring system supports informed management and alignment with sustainability goals by providing detailed monthly reports on renewable energy production. This monitoring approach enables the university to make data-driven adjustments, increasing the efficiency and impact of its renewable energy strategies.

[2.16] Impact of Energy and Climate Change programs in supporting the Sustainable Development Goals

Kütahya Dumlupınar University implements a wide range of energy and climate-related programs that significantly contribute to the achievement of the Sustainable Development Goals (SDGs). These initiatives demonstrate a strong commitment to reducing carbon emissions, mitigating energy degradation, and improving climate resilience, as evidenced by relevant examples:

1. **LED Lighting Examples (SDG 3)**

Energy-efficient LED lighting systems have been installed across campus facilities, reducing energy consumption and emissions associated with traditional lighting methods. This transition is part of a broader effort to phase out energy-intensive lighting sources.

2. **Energy-Efficient Appliances (SDG 11)**

The university has implemented energy-efficient appliances to ensure all equipment meets or exceeds energy efficiency standards. This includes the use of low-consumption air conditioning systems, refrigerators, and other electronic devices to reduce energy demand.

3. **Monitoring and Optimizing Energy Use (SDG 11)**

A centralized energy monitoring system has been established to monitor, evaluate, and optimize energy consumption across campus. This system allows for real-time data analysis, leading to more efficient energy use and reduced overall carbon emissions.

4. **Thermal Insulation and Insulation Work (SDG 12)**

Buildings on campus have been renovated to improve thermal insulation using environmentally friendly materials approved by the Ministry of Environment, Urbanization and Climate Change. These efforts reduce heating and cooling needs, thereby reducing energy use and greenhouse gas emissions.

5. **Use of Renewable Energy Sources (SDG 17)**

The university is actively increasing its reliance on renewable energy sources. This includes solar and wind power installations to support the campus energy grid and reduce reliance on fossil fuels.

6. **Mobile Electric Vehicle Charging Station (SDG 11)**

A mobile electric vehicle (EV) charging station has been installed, encouraging the use of electric vehicles among staff and students and reducing reliance on gasoline vehicles.

7. **Solar Panel Examples (SDG 11)**

Solar panels have been installed on various buildings, using renewable solar energy for electricity generation. These panels meet a significant portion of the campus's energy needs and further reduce greenhouse gas emissions.

8. **Wind Measurement Station (10 m and 30 m) (SDG 11)**

The campus has installed wind measurement stations at 10 and 30 meters to assess wind energy potential. This data informs future wind energy projects and further integrates renewable energy into campus infrastructure.

9. **Biofuel Machinery Unit (SDG 11)**

Biofuel machines on campus convert organic waste into biofuel. This biofuel is then used to power specific university activities, providing a sustainable energy alternative and contributing to a circular waste economy.

10. Geothermal Heating System (SDG 7)

The university utilizes a geothermal heating system to provide energy-efficient heating to various facilities. This reduces the need for traditional heating methods, which contribute to higher carbon emissions.

11. Green Transportation Incentives (SDG 11)

To promote sustainable transportation, green transportation incentives are offered to students and staff who choose low-carbon alternatives such as electric vehicles, bicycles, or public transportation.

12. 100% Electric Bus Service on Campus Route in Partnership with Local Municipality (SDG 17)

In partnership with the local municipality, the campus operates a 100% electric bus service, providing a zero-emission alternative for campus transportation.

13. Staff Shuttles (SDG 13)

Shuttle services for university staff are designed to reduce the number of private vehicles on campus and minimize greenhouse gas emissions from individual transportation.

14. Bicycle Lanes (SDG 11)

Dedicated bicycle lanes have been established to encourage cycling as a sustainable mode of transportation, reduce vehicle emissions, and support an active, environmentally friendly lifestyle.

15. Installing Electric Vehicle Charging Stations (SDG 10, SDG 11)

The installation of numerous electric vehicle charging stations across campus supports the reduction of emissions from gasoline vehicles by encouraging the use of electric vehicles.

16. Our Award-Winning DUSCART Electric Vehicle (SDG 11)

The university proudly displays its award-winning DUSCART electric vehicle, developed by students and faculty, to demonstrate the potential for innovation in electric transportation.

17. Example of a Ridesharing Application (SDG 13)

A campus-specific ridesharing application allows students and staff to carpool or rideshare, significantly reducing the number of vehicles on the road and reducing emissions.

18. Example of a Recycling Program for University Waste (SDG 17)

The university implements a comprehensive recycling program that ensures the separation and proper disposal of recyclable materials. This program helps reduce landfill waste and greenhouse gas emissions.

19. Waste Separation and Storage Example (SDG 17)

Waste separation bins have been placed throughout campus to encourage proper waste disposal, increase recycling rates, and compost organic waste, thereby minimizing methane emissions from landfills.

20. Recycling Workshops Exhibition (SDG 17)

Regular workshops and exhibitions on recycling and waste management are held to educate students and staff on best practices and foster a culture of sustainability across campus.

21. Composting Organic Waste into Fertilizer (SDG 12)

Organic waste generated on campus is composted into fertilizer, reducing the amount of waste sent to landfills and providing a valuable resource for campus landscaping projects.

22. Tree Planting Projects (SDG 11)

In line with our commitment to carbon sequestration, the university conducts annual tree planting projects, beautifying the campus while helping to absorb CO2 from the atmosphere.

Our 180 kW photovoltaic solar power plant generates clean energy for campus use. Additionally, an invitation letter has been received for a 1 MW PV solar power plant on the grounds of our Simav Faculty of Technology, and we are in discussions with installation companies. In the wind energy field, a feasibility study has been completed, and we are in the process of obtaining the necessary approvals for a 2 MW wind turbine. These renewable energy projects promote sustainability by diversifying our energy sources.

Related continuous development goal (SDG) items: 7. Accessibility and Clean Energy, ***9. Industry, Innovation and Infrastructure*****,** 11. Sustainable Cities and Living Spaces, 12. Responsible Consumption and Production, 13. Climate Action.

Kütahya Dumlupınar University actively uses the HEY (prepaid single vehicle) system to reduce traffic congestion on campus and provide sustainable transportation solutions. HEY is a carpooling system that encourages university staff and students traveling in the same direction to travel together in a single vehicle.

This system both reduces individual transportation costs and contributes to environmental sustainability by minimizing vehicle traffic on campus.

HEY plays an important role in the university's Greenhouse Gas Emission Reduction Program. Encouraging travel by a single vehicle directly contributes to reducing carbon emissions on campus and also ensures more efficient use of parking spaces. This reduces fossil fuel consumption and significantly lowers air pollution and carbon footprint.

The use of the HEY system is one of the steps Dumlupınar University has taken towards becoming an environmentally friendly campus and contributes to the university's success in international sustainability criteria such as GreenMetric. This application aims to raise awareness for a sustainable future and increase interest in public transportation and environmentally friendly transportation alternatives.

Electric bicycles, motorcycles, and scooters are actively used on campus to facilitate transportation between buildings and help reduce emissions.

Related continuous development goal (SDG) item: *10. Reducing Inequalities*, 11. Sustainable Cities and Living Spaces, 12. Responsible Consumption and Production, 13. Climate Action.

By increasing carbon sequestration through afforestation efforts in the Kütahya Dumlupınar University Campus area, the amount of quality green space within the campus is increased.

Related continuous development goal (SDG) item: 12. Responsible Consumption and Production, 13. Climate Action, ***15. Life on Land.***

The Young Green Crescent Society was established to foster an atmosphere of moral and cultural development for students at Kütahya Dumlupınar University. It aims to combat addictions that harm the

physical and mental health of society and youth, such as tobacco (cigarette), alcohol, and substance abuse, as well as gambling, internet, and technology addiction, all of which harm youth and society. It also aims to raise generations committed to their national culture.

To this end, the Society mobilizes society's awareness, strength, and resources to combat addictions. It provides assistance to those in need at all times, places, and under all circumstances, to protect human dignity and respect. It also continuously contributes to the development of society's capacity to combat addiction.

To this end, it develops the necessary collaborations and collaborative projects with national and international public, private, and non-governmental organizations.

Smoking areas within the Kütahya Dumlupınar University Campus are restricted to the maximum extent. The goal is to make the campus smoke-free in the future.

Related continuous development goal (SDG) items: 3. Healthy Individuals, ***4. Quality Education*****,** 10. Reducing Inequalities.

Total number of different Sustainable Development Goals (SDGs) represented:

10 unique goals (**SDG 3, 4, 7, 9, 10, 11, 12, 13, 15, and 17**)

[3] Waste (WS)

[3.1] 3R (Reduce, Reuse, Recycle) Program for University's Waste

1. Zero Waste Seminar on Campus (Kütahya Dumlupınar University, Türkiye)





2. Systems for the Collection and Recycling of Waste from Different Departments (Kütahya Dumlupınar University, Türkiye)

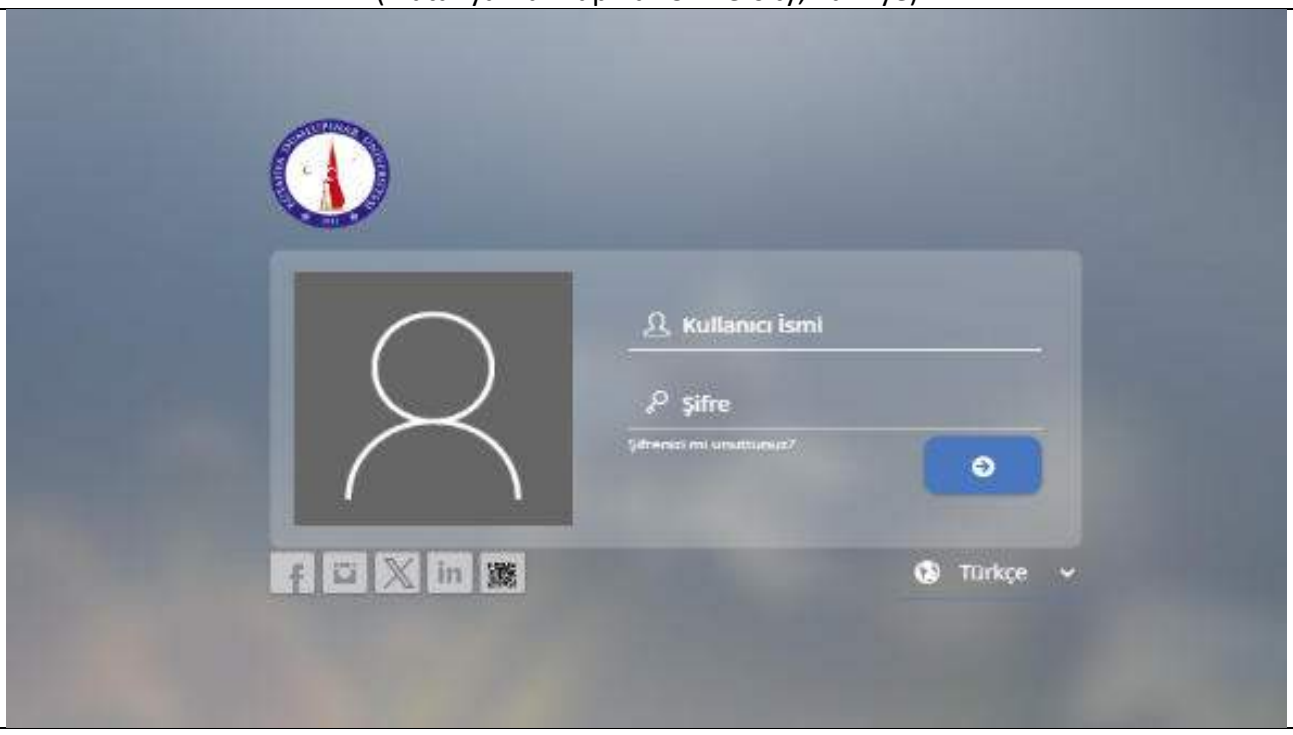
3. Book Donation and Book Collection Event
(Kütahya Dumlupınar University, Türkiye)

4. Event Organised by Students of the University's Design Department as Part of Waste Recycling
(Kütahya Dumlupınar University, Türkiye)

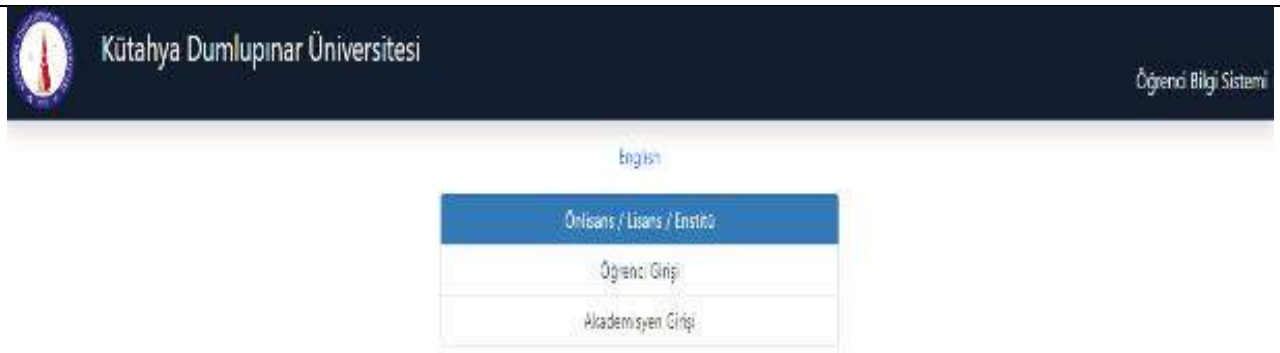
5. Student Canteen Reusability
(Kütahya Dumlupınar University, Türkiye)

6. Staff Canteen Reusability
(Kütahya Dumlupınar University, Türkiye)

7. Metal and Wood Recycling Activities
(Kütahya Dumlupınar University, Türkiye)



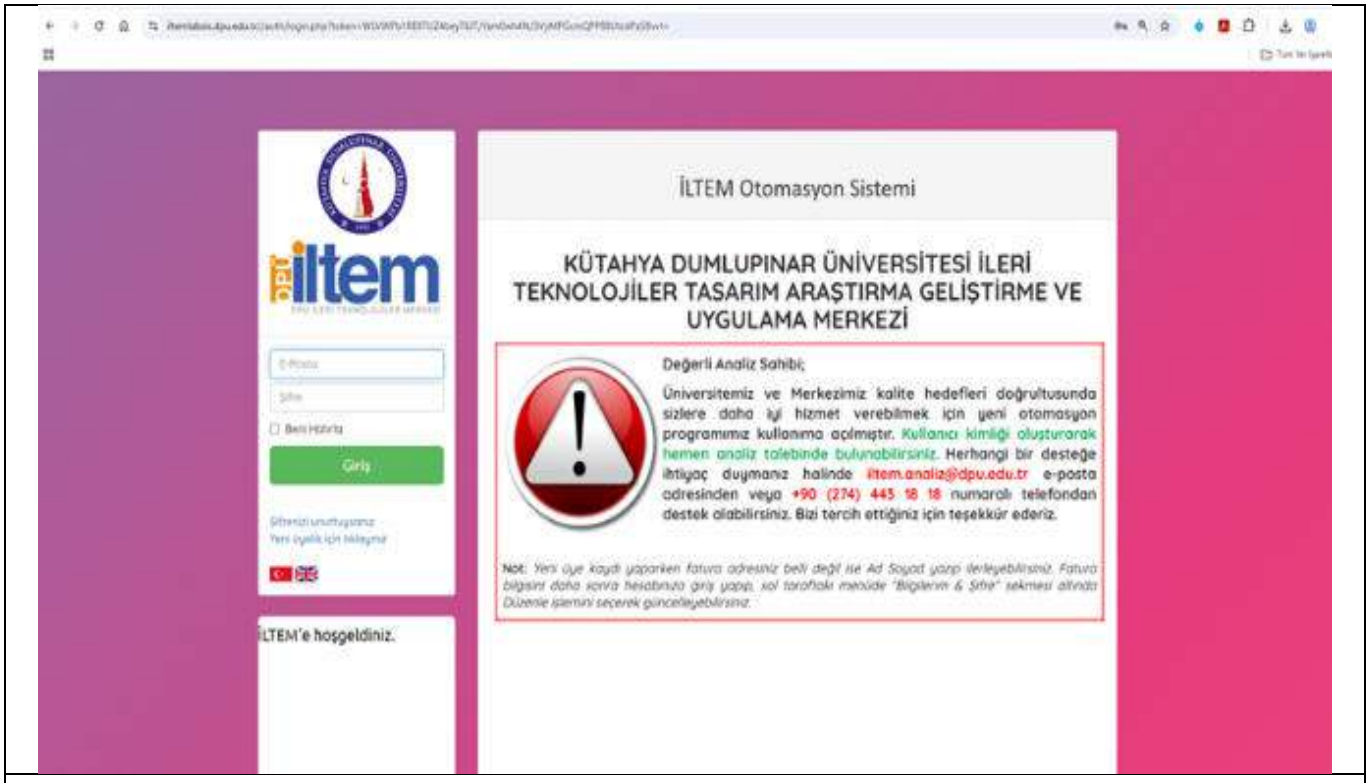
8. Electronic Information Management System
(Kütahya Dumlupınar University, Türkiye)



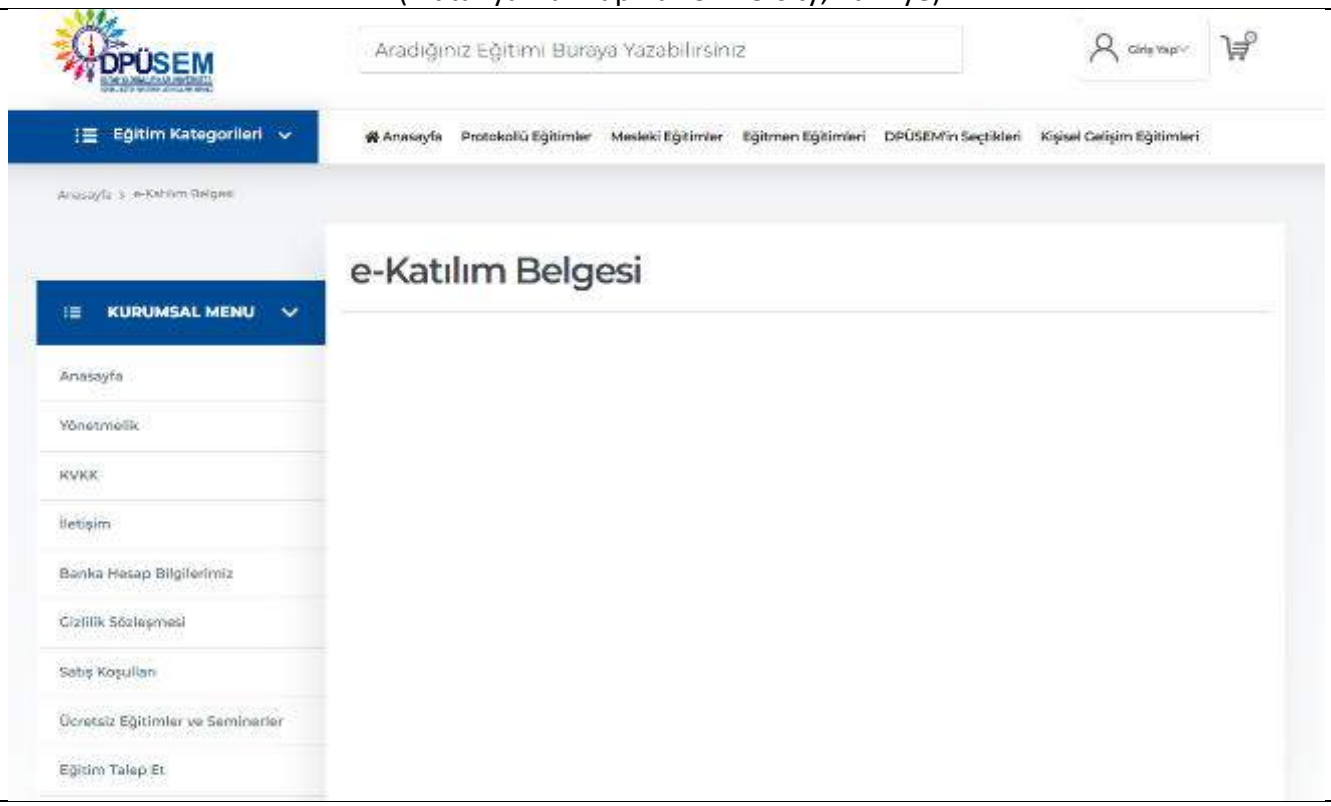
9. Student Information System (Kütahya Dumlupınar University, Türkiye)

10. Learning Management System (Kütahya Dumlupınar University, Türkiye)

11. Integrated Environmental Information System (Kütahya Dumlupınar University, Türkiye)



12. Advanced Technologies Design Research Development and Application Centre Automation System
(Kütahya Dumlupınar University, Türkiye)



13 E-Certification
(Kütahya Dumlupınar University, Türkiye)

14. Laboratory Inventory Lists in Departments
(Kütahya Dumlupınar University, Türkiye)

15. Example of a QR Code Application
(Kütahya Dumlupınar University, Türkiye)

T.C.
KÜTAHYA VALİLİĞİ
Çevre ve Şehircilik İl Müdürlüğü

SIFIR ATIK

Belge No: TS/43/B1/62

Tarih: 30/09/2020

SIFIR ATIK BELGESİ

(Temel Seviye)

Adı : DUMLUPINAR ÜNİVERSİTESİ REKTÖRLÜĞÜ/KÜTAHYA

Adresi : KÜTAHYA,KİRAZPINAR Mahallesi, KÜTAHYA DUMLUPINAR ÜNV.EVLİYA ÇELEBİ YERLEŞKESİ KÜME EVLER, No: 1-, MERKEZ,Türkiye

Vergi No : 3140451181

12/07/2019 tarihli ve 30829 sayılı Resmi Gazete'de yayımlanarak yürürlüğe giren Sıfır Atık Yönetmeliği'nce Sıfır Atık Yönetim Sistemi'ni kurarak Sıfır Atık Belgesi'ni almaya hak kazanmıştır.

e-İmzalıdır
İbrahim ÇATLADAN
Çevre ve Şehircilik İl Müdürü

Belge Son Geçerlilik Tarihi: 30/09/2025

16. Zero Waste Certificate
(Kütahya Dumlupınar University, Türkiye)

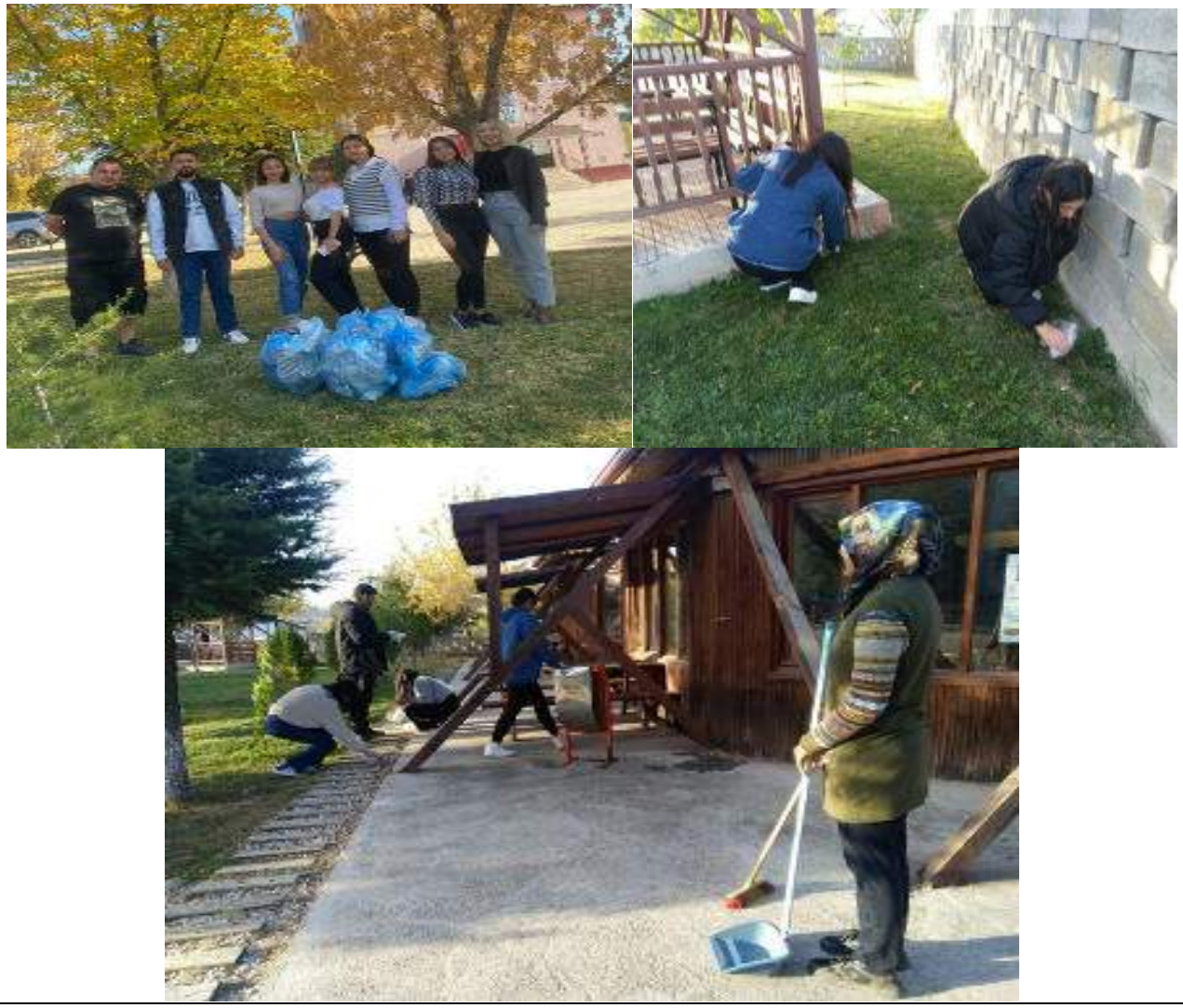
17. The Faculty of Fine Arts' Recycling Event Using Ceramic Waste
(Kütahya Dumlupınar University, Türkiye)

18. Medical Waste Storage
(Kütahya Dumlupınar University, Türkiye)

19. University Recycling Compost and Fertiliser Production Example
(Kütahya Dumlupınar University, Türkiye)

20. Environment- Based Student Clubs (Kütahya Dumlupınar University, Türkiye)

21. Student Community Waste Collection Activities
(Kütahya Dumlupınar University, Türkiye)



22. Students' Rubbish Collection Activity on Campus
(Kütahya Dumlupınar University, Türkiye)

23. Waste Recycling Project within the Scope of Environmental Protection Course at University (Kütahya Dumlupınar University, Türkiye)

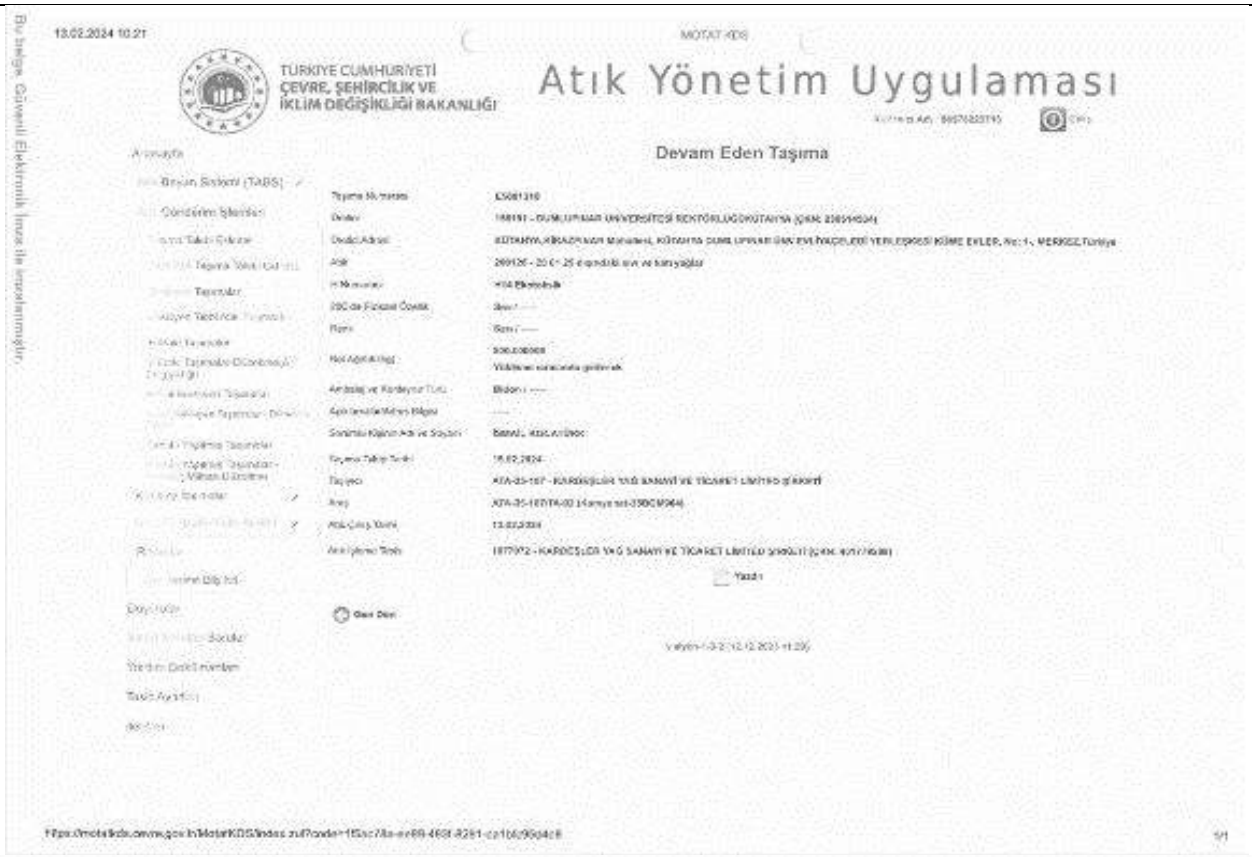
24. Event on the Evaluation of Food Waste Separated in the University's Applied Cooking Classes (Kütahya Dumlupınar University, Türkiye)

25. Waste Collection Activities Held on Campus to Raise Awareness of Environmental Cleanliness (Kütahya Dumlupınar University, Türkiye)

26. Study on the Collection of Plumbing Material Waste (taps, batteries, valves, etc.) and Consumable Material Waste (Kütahya Dumlupınar University, Türkiye)

27. Utilisation of Food Waste from Canteens in Animal Shelters (Kütahya Animal Shelter, Türkiye)

28. Environmental Awareness Activities
(Kütahya Dumlupınar University, Türkiye)



13.02.2024 10:21 MOTAT-KDS

TÜRKİYE CUMHURİYETİ
ÇEVRE, ŞEHİRCİLİK VE
İKLİM DEĞİŞİKLİĞİ BAKANLIĞI

Atık Yönetim Uygulaması

Devam Eden Taşıma

Bu belge, Güvenli Elektronik İmza ile imzalanmıştır.

KÜTAHYA DUMLUPINAR ÜNİVERSİTESİ
ZOONOZLAR ARAŞTIRMA MERKEZİ
TIBBİ ATIK LİSTESİ 2024 YILI

ATIK KG	Plaka	Alıcı	Boşaltma Zamanı	Açıklama
2	34DT42	109917 - ERA ÇEVRE TEKNOLOJİLERİ ANONİM ŞİRKETİ KÜTAHYA ŞUBE (KÜKAB TIBBİ ATIK STERİLİZASYON TESİSİ) (ÇKN: 227150894)	15.11.2024 17:10	Dumlupınar Üniversitesi Rektörlüğü Zoonoslar Araştırma merkezi
2	34DT42	109917 - ERA ÇEVRE TEKNOLOJİLERİ ANONİM ŞİRKETİ KÜTAHYA ŞUBE (KÜKAB TIBBİ ATIK STERİLİZASYON TESİSİ) (ÇKN: 227150894)	30.10.2024 16:28	Dumlupınar Üniversitesi Rektörlüğü Zoonoslar Araştırma merkezi
2	34DT42	109917 - ERA ÇEVRE TEKNOLOJİLERİ ANONİM ŞİRKETİ KÜTAHYA ŞUBE (KÜKAB TIBBİ ATIK STERİLİZASYON TESİSİ) (ÇKN: 227150894)	13.09.2024 18:02	Dumlupınar Üniversitesi Rektörlüğü Zoonoslar Araştırma merkezi
2	34DT42	109917 - ERA ÇEVRE TEKNOLOJİLERİ ANONİM ŞİRKETİ KÜTAHYA ŞUBE (KÜKAB TIBBİ ATIK STERİLİZASYON TESİSİ) (ÇKN: 227150894)	19.08.2024 14:40	Dumlupınar Üniversitesi Rektörlüğü Zoonoslar Araştırma merkezi
2	34DT42	109917 - ERA ÇEVRE TEKNOLOJİLERİ ANONİM ŞİRKETİ KÜTAHYA ŞUBE (KÜKAB TIBBİ ATIK STERİLİZASYON TESİSİ) (ÇKN: 227150894)	26.07.2024 19:16	Dumlupınar Üniversitesi Rektörlüğü Zoonoslar Araştırma merkezi
2	34DT42	109917 - ERA ÇEVRE TEKNOLOJİLERİ ANONİM ŞİRKETİ KÜTAHYA ŞUBE (KÜKAB TIBBİ ATIK STERİLİZASYON TESİSİ) (ÇKN: 227150894)	09.05.2024 18:52	Dumlupınar Üniversitesi Rektörlüğü Zoonoslar Araştırma merkezi
4	34DT42	109917 - ERA ÇEVRE TEKNOLOJİLERİ ANONİM ŞİRKETİ KÜTAHYA ŞUBE (KÜKAB TIBBİ ATIK STERİLİZASYON TESİSİ) (ÇKN: 227150894)	28.03.2024 19:09	Dumlupınar Üniversitesi Rektörlüğü Zoonoslar Araştırma merkezi
1	34DT42	109917 - ERA ÇEVRE TEKNOLOJİLERİ ANONİM ŞİRKETİ KÜTAHYA ŞUBE (KÜKAB TIBBİ ATIK STERİLİZASYON TESİSİ) (ÇKN: 227150894)	28.02.2024 17:13	Dumlupınar Üniversitesi Rektörlüğü Zoonoslar Araştırma merkezi
3	34DT42	109917 - ERA ÇEVRE TEKNOLOJİLERİ ANONİM ŞİRKETİ KÜTAHYA ŞUBE (KÜKAB TIBBİ ATIK STERİLİZASYON TESİSİ) (ÇKN: 227150894)	29.01.2024 18:46	Dumlupınar Üniversitesi Rektörlüğü Zoonoslar Araştırma merkezi
20				

29. Disposal of Waste Oil (Kütahya Dumlupınar University, Türkiye)

Kütahya Dumlupınar University, in line with the sustainable development goals, acts with an awareness of its environmental responsibilities and effectively implements a holistic waste management policy based on the 3R principles (Reduce, Reuse, Recycle).

In this context, it is aimed to increase the environmental awareness levels of all stakeholders, especially students and academic-administrative staff, through various educational activities, workshops, and thematic events organized within the university.

The aim is to minimize waste generation through campus-wide practices, re-evaluate existing resources, and systematically support recycling processes.

A "Zero Waste on Campus" seminar was organized for all personnel and students at Kütahya Dumlupınar University (Figure 1). Information is provided on Türkiye's zero waste regulation and sustainability policies, as well as how waste in universities can be reduced, separated, and recycled. The environmental, economic, and social impacts of zero waste have been expressed.

Boxes or containers have been placed in all university units for the source separation (Reduce) and collection of waste such as paper, plastic, glass, metal, packaging, and batteries (Figure 2). With the training and awareness provided, all students and staff have easy access to waste collection areas for recycling waste. Thus, concrete steps are being taken towards more efficient use of resources and reducing environmental pollution. Additionally, waste from plumbing materials (faucets, sinks, valves, etc.) and consumables is collected, sorted, and reused in different locations or sent for recycling if usable (Figure 26).

At the university, all personnel, especially students, are surrounded by books. Book donation and sharing campaigns are organized at the university (Figure 3), and books left by students who have completed their education are given to students in lower grades. Thus, while contributing to the strengthening of the sharing and solidarity aspects of my contacts, existing books are also reused, preventing them from becoming waste.

At the university, practices are carried out to transform various types of waste such as paper, plastic, and ceramics into artistic activities in order to draw attention to recycling and reuse in some of its departments (Figure 4 and Figure 17). The works created as a result of these recycling activities are exhibited in various areas of the university to raise environmental awareness. Additionally, waste recycling projects are being carried out as part of the environmental protection course taught in different departments, again in an effort to raise awareness (Figure 23).

Kütahya Dumlupınar University, in line with its goals for environmental sustainability and the protection of natural resources, continues a significant practice in all student and staff cafeterias. In this context, reusable containers, cups, and cutlery are preferred over single-use plastic products (Figures 5 and Figure 6). The main purpose of the application is to reduce the use of disposable materials and thereby minimize waste generation, contributing to more efficient use of resources. At the same time, the preference for reusable products (Reuse) supports the development of environmentally friendly consumption habits within the university community and contributes to increased recycling awareness among individuals and the general public.

Various waste collection activities are carried out on campus to raise awareness about recycling and prevent environmental pollution (Figure 21, Figure 22, Figure 25). As a result of cleaning efforts carried out with the participation of students and university staff, recyclable waste is collected and disposed of in appropriate waste collection areas.

Various waste collection activities are carried out on campus to raise awareness about recycling and prevent environmental pollution (Figure 21, Figure 22, Figure 25). As a result of cleaning efforts carried out with the participation of students and university staff, recyclable waste is collected and disposed of in appropriate waste collection areas. One of the issues of concern at Kütahya Dumlupınar University is the reusability of wood and metal materials. Office supplies produced by the Department of Construction Works and waste wood and metal materials generated during maintenance and repair work are evaluated and reused in the production of auxiliary office equipment. Again, the aluminum frames removed during the renovation of the university buildings are later reused in another area. Thus, both economic gains are achieved and the 3R (Reduce, Reuse, Recycle) principles are effectively implemented (Figure 7).

Kütahya Dumlupınar University is reducing paper usage and contributing to recycling through various digital platforms in line with its sustainability goals. One of these platforms is the Electronic Information Management System, which enables all internal and external correspondence to be carried out digitally (Figure 8). The Student Information System, on the other hand, makes it possible to manage academic processes such as exam tracking, course schedules, attendance records, and grade entry digitally (Figure 9). Additionally, academic staff are required to change the schedules they post on their office doors every semester to facilitate communication with students. To prevent paper waste, paper changes are avoided each term by announcing their programs or announcements through a QR code application (Figure 15). The Learning Management System platform created for specific courses to be delivered through distance education is actively used (Figure 10). Thus, homework and lecture notes are shared digitally, and exams are taken digitally, reducing paper usage. The Advanced Technologies Design Research Development and Application Center, one of the university units, allows analysis owners to submit their analysis applications electronically through the system thanks to the automation system they use. Additionally, users can view their own analysis results within the system, thus preventing paper waste (Figure 12). Again, the records of laboratory equipment and consumables that exist in various units are shared in a digital inventory management system instead of being archived in paper files (Figure 14). Thanks to this system, excessive chemical intake is prevented and waste generation is reduced. The aim is to reduce paper usage by sharing digital copies of participation certificates issued after certification training conducted by units such as the Continuing Education Center and AFAMER (Figure 13).

Kütahya Dumlupınar University effectively manages waste management processes using the Integrated Environmental Information System platform, in line with its environmental sustainability goals (Figure 11). This platform makes it possible to track waste from the university by recording it at regular intervals on a monthly basis. These data, also monitored by the Ministry of Environment and Urbanization of the Republic of Türkiye, make waste management more systematic and contribute to improving environmental performance. Another application in environmental sustainability is the Zero Waste Management System. Kütahya Dumlupınar University has also met the requirements of this system and received the Zero Waste Certificate (Figure 16). This document demonstrates our university's environmental responsibilities and our commitment to achieving sustainability goals. Kütahya Dumlupınar University is taking significant steps in the field of environmental sustainability with this system, not only within the campus but also by setting an example for the community.

Recycling is of great importance for the proper management of medical waste in order to ensure health safety. Medical waste generated by the central and all district municipalities in provinces where medical waste treatment facilities are located is sent to the medical waste treatment facilities in the relevant province. The medical waste storage point shown in Figure 18 represents a part of this process and ensures the safe collection and storage of medical waste. These points minimize environmental and health risks by enabling the proper segregation and subsequent processing of medical waste. Proper

storage of medical waste under suitable conditions is of critical importance for both protecting public health and reducing negative environmental impacts.

Our university is making environmentally friendly practices by evaluating organic waste. Fertilizer is obtained using a composting machine that converts organic waste such as lavender waste, tree branches, and leaves into compost (Figure 19). This process ensures that organic waste is returned to the natural cycle and represents a significant step in waste management. The resulting fertilizer is used in the gardens and plants within the campus, thus aiming to both increase agricultural productivity and reduce the use of chemical fertilizers. Recycling organic waste in this way helps conserve natural resources and maintain ecosystem balance, while also effectively contributing to the 3R principles (Reduce, Reuse, Recycle). This application reflects the university's efforts to strengthen environmental awareness while also increasing the sensitivity of students and staff to sustainability issues.

In order to support university students in becoming more active and conscious individuals on environmental issues, student clubs themed on environment and sustainability have been established within Kütahya Dumlupınar University (Figure 20). These communities provide a space for interaction where students can gain awareness of environmental issues, develop solution-oriented thinking, and develop projects in this direction by organizing new events every year.

Leftover food and bread from meals produced and served in the student and staff kitchen within the Kütahya Dumlupınar University Nutrition Services Branch Directorate are evaluated for use in facilities operating under the Kütahya Governorate's Unowned Animal Protection Association Presidency (Figure 27). Additionally, food materials set aside in practical cooking classes offered in different units of the university, as well as products nearing their expiration dates, are used to feed street animals (Figure 24). Thus, a different method of evaluating food waste (Reuse) is obtained, and it also contributes to the development of students' love for animals and their awareness of helping living things.

Various events are held during Environment Week to draw attention to environmental issues and raise awareness, with the aim of increasing environmental consciousness and promoting sustainable lifestyles. These events not only instill environmental awareness in students but also emphasize the importance of protecting natural habitats. In line with this goal, a tree planting event is organized with students, academic and administrative staff (Figure 28). Additionally, within the scope of environmental protection and sustainability, the processes of recycling and reuse are reinforced through activities such as repainting and renovating the benches and garden tables on campus, and aerating and cleaning the garden soil.

As stated in the 2023 Greenmetric report, the Kütahya Dumlupınar University central dining hall system uses the sewage system for the separation of waste oils at the source. In addition, the solid and liquid waste oils generated at the Zoonaz Research Center are separated and collected, and delivered to Era Environmental Technologies Inc. (Figure 29). Thus, efforts are being made to prevent environmental and water pollution that can be caused by oil waste.

[3.2] Total Volume of Paper and Plastic Produced This Year

The total amounts of paper and plastic waste produced on our campus this year come from various sources, and the management of this waste plays a significant role in ensuring environmental sustainability. The table above shows the main components of paper and plastic waste on our campus and their estimated annual production.

This year, a total of 8.2 tons of paper waste and 3.3 tons of plastic waste were identified. Compared to last year, the data show a decrease of 3.8 tons in paper waste and 4.7 tons in plastic waste.

The observed decrease in waste amounts this year is the result of various policies and awareness campaigns implemented across the campus. It is believed that the following practices are particularly effective:

- The use of reusable materials has been encouraged.
- Digital document management has been popularized, and paper consumption in academic and administrative processes has been reduced.
- Recycling and waste reduction training has been organized for students and staff.
- Guidance was provided on the segregation of waste at the source within the scope of the Zero Waste Management System.
- Volunteer waste collection days, where students also contributed, have been organized.

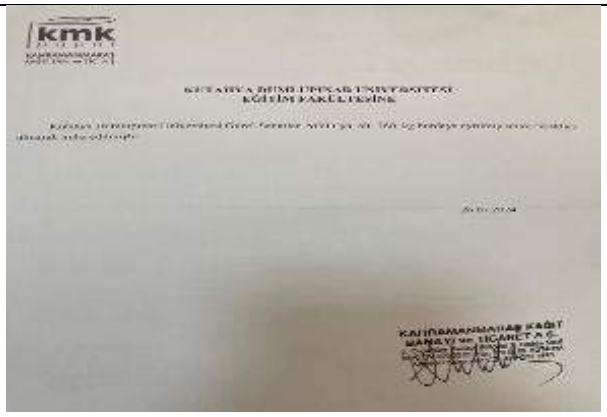
ÖZGÜR HURDA
Ambalaj Atığı Toplama, Ayırma ve Geri Dönüşüm

TUTANAK

Kg tutarında karışık ambalaj atığı teslim alındı. ÖZGÜR HURDA Ambalaj Atığı Toplama Ayırma ve Geri Dönüşüm firmasına teslim edilmiştir.

TESLİM EDEN

TESLİM ALAN



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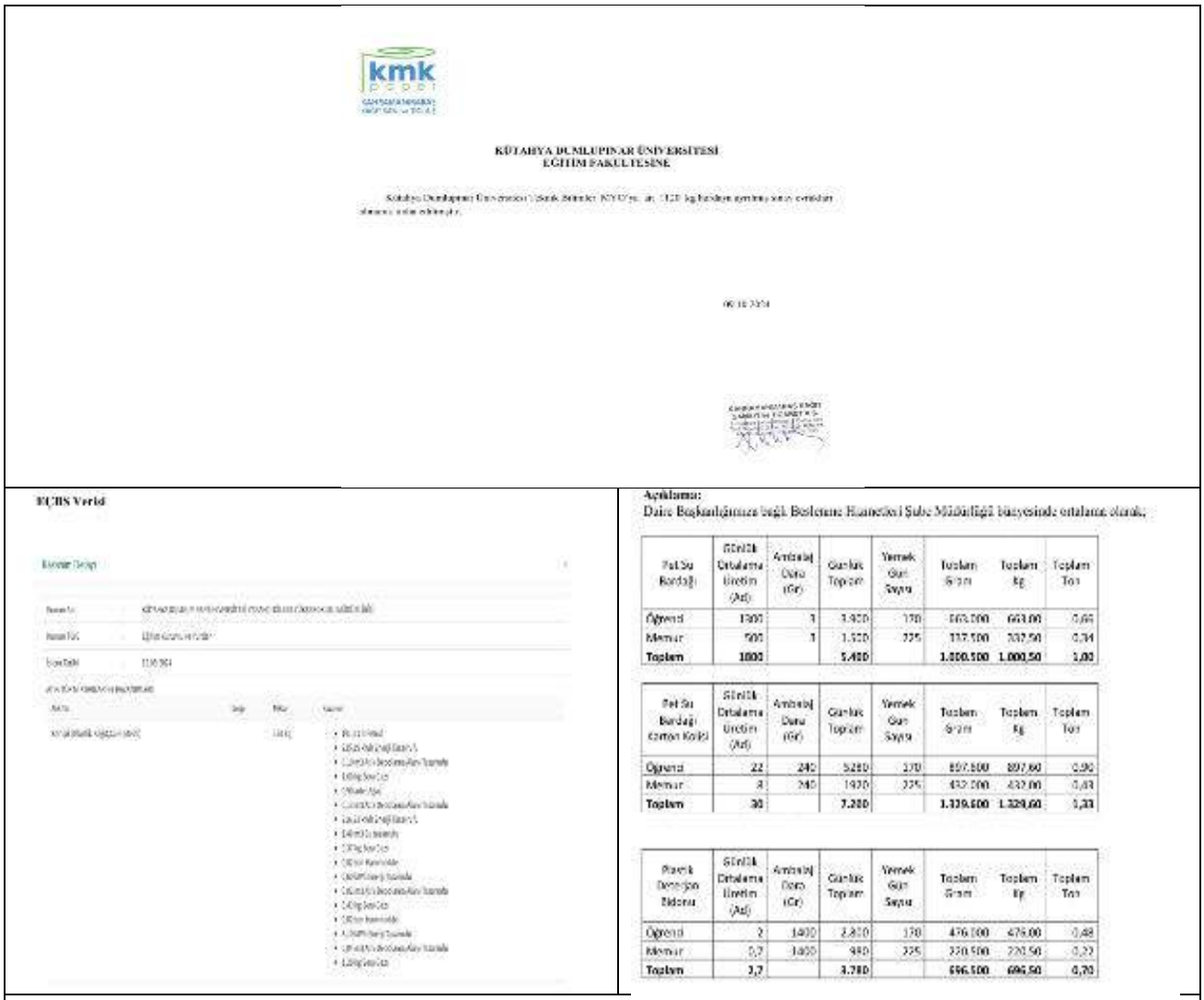
KÜTAHYA DUMLUPINAR ÜNİVERSİTESİ
EĞİTİM FAKÜLTESİNE


T.C.
KÜTAHYA DUMLUPINAR ÜNİVERSİTESİ KÜTAHYA TEKNİK BİLİMLER MESLEK YÜKSEKOKULU
ARŞİV MALZEMESİ DEVİR-TESLİM ve ENVANTER FORMU



KÜTAHYA DUMLUPINAR ÜNİVERSİTESİ
EĞİTİM FAKÜLTESİNE

EÜBS Verisi

Açıklama:

Pet Su Bardağı	Günlük Ortalama Üretim (Ad)	Ambalaj Ölçü (Gr)	Günlük Toplam	Yemek Gün Sayısı	Toplam Gram	Toplam Kg	Toplam Ton
Öğrenci	1900	3	5.400	170	1.000.500	1.000,50	1,00
Memur	900	3	1.620	335	117.500	332,50	0,34
Toplam	1800		5.400		1.000.500	1.000,50	1,00

Pet Su Bardağı (orton Koli)	Günlük Ortalama Üretim (Ad)	Ambalaj Ölçü (Gr)	Günlük Toplam	Yemek Gün Sayısı	Toplam Gram	Toplam Kg	Toplam Ton
Öğrenci	22	240	5280	170	897.600	897,60	0,90
Memur	8	240	1920	335	432.000	432,00	0,43
Toplam	30		7.200		1.329.600	1.329,60	1,33

Plastik Deterjan Bidonu	Günlük Ortalama Üretim (Ad)	Ambalaj Ölçü (Gr)	Günlük Toplam	Yemek Gün Sayısı	Toplam Gram	Toplam Kg	Toplam Ton
Öğrenci	2	1400	2.800	170	476.000	476,00	0,48
Memur	0,7	1400	980	335	330.500	330,50	0,33
Toplam	2,7		3.780		696.500	696,50	0,70

Records of the Amounts of Waste Delivered for Paper and Waste Recycling in Faculties/Vocational Schools/Department Directorates
(Kütahya Dumlupınar University, Türkiye)

[3.3] Total Volume of Paper and Plastic Produced Last Year

The total amounts of paper and plastic waste generated on our campus last year came from various sources, and the management of this waste plays a significant role in ensuring environmental sustainability. The table above shows the main components of paper and plastic waste on our campus and their estimated annual production.

Last year, a total of 12 tons of paper waste and 8 tons of plastic waste were identified. As future goals for our university, we aim to reduce or recycle paper and plastic usage. In this direction, it aims to create a sustainable campus by continuing its work.

KÜTAHYA DUMLUPINAR ÜNİVERSİTESİ
EĞİTİM FAKÜLTESİNE

Kütahya Dumlupınar Üniversitesi Domaniç MYO'ya ait 320 kg hurdaya ayrılmış sınav evrakları elektronik imha edilmiştir.

KÜTAHYA DUMLUPINAR ÜNİVERSİTESİ
EĞİTİM FAKÜLTESİNE

Kütahya Dumlupınar Üniversitesi Teknik Bilimler MYO'ya ait 1120 kg hurdaya ayrılmış sınav e
almarak imha edilmiştir.

KÜTAHYA DUMLUPINAR ÜNİVERSİTESİ
EĞİTİM FAKÜLTESİNE

19.07.2023

KÜTAHYA DUMLUPINAR ÜNİVERSİTESİ
EĞİTİM FAKÜLTESİNE

Kütahya Dumlupınar Üniversitesi Domaniç MYO'ya ait 320 kg hurdaya ayrılmış sınav evrakl
imha edilmiştir.

GERİ DÖNÜŞÜM AMBALAJ ATIĞI TESLİM ALMA TUTANAĞI

Kütahya Emet DPU ait 40 kg ambalaj atığı Emet Belediyesi tarafından 17.02.2023
tarih arasında teslim alınmıştır.

Teslim Eden Sorumlu
Halil GÜNDÜZ

Teslim Alan

GERİ DÖNÜŞÜM AMBALAJ ATIĞI TESLİM ALMA TUTANAĞI

Kütahya Emet DPU ait 35 kg ambalaj atığı Emet Belediyesi tarafından 03.07.2023
tarih arasında teslim alınmıştır.

Teslim Eden Sorumlu
Halil GÜNDÜZ

Teslim Alan

GERİ DÖNÜŞÜM AMBALAJ ATIĞI TESLİM ALMA TUTANAĞI

Kütahya Emet DPU ait 85 kg ambalaj atığı Emet Belediyesi tarafından 12.10.2023
tarih arasında teslim alınmıştır.

Teslim Eden Sorumlu
Halil GÜNDÜZ

Teslim Alan

Açıklama:
Daire Başkanlığımıza bağlı Beslenme Hizmetleri Şube Müdürlüğü bünyesinde ortalama olarak:

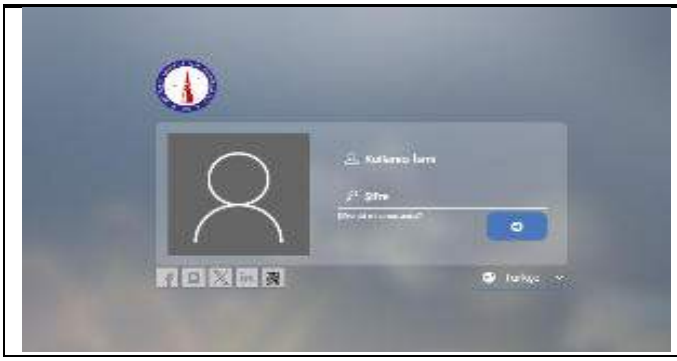
Pet Su Bardağı	Günlük Ortalama Üretim (Ad)	Ambalaj Ağırlığı (Gr)	Günlük Toplam	Yemek Gün Sayısı	Toplam Gram	Toplam Kg	Toplam Ton
Öğrenci	3500	1	3.500	170	595.000	595,00	0,60
Memur	500	1	1.500	225	337.500	337,50	0,34
Toplam	4000		5.000		1.000.500	1.000,50	1,00

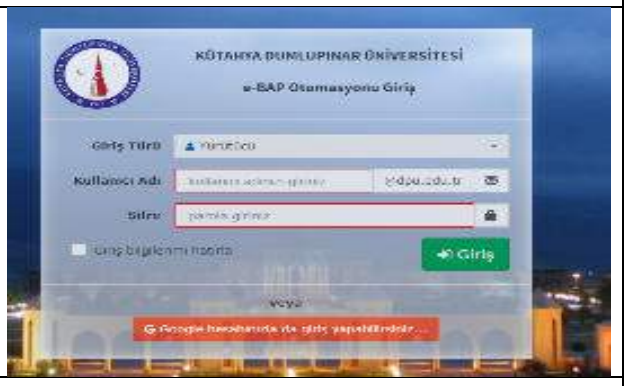
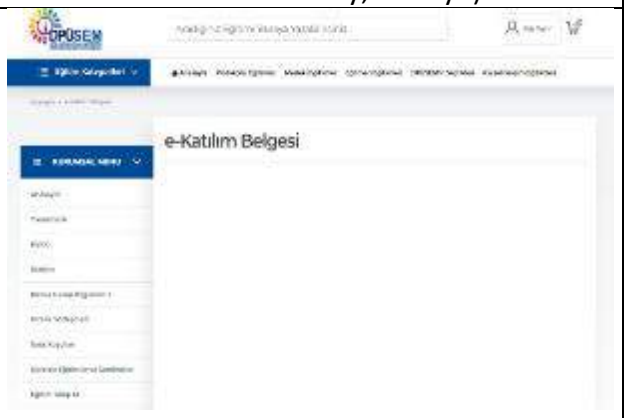
Pet Su Bardağı Karton Poşet	Günlük ortalama Üretim (Ad)	Ambalaj Ağırlığı (Gr)	Günlük Toplam	Yemek Gün Sayısı	Toplam Gram	Toplam Kg	Toplam Ton
Öğrenci	22	200	3200	170	807.600	807,60	0,80
Memur	8	240	1920	225	432.000	432,00	0,43
Toplam	30		7.200		1.239.600	1.239,60	1,23

Plastik Deterjan Bidonu	Günlük Ortalama Üretim (Ad)	Ambalaj Ağırlığı (Gr)	Günlük Toplam	Yemek Gün Sayısı	Toplam Gram	Toplam Kg	Toplam Ton
Öğrenci	2	1400	2.800	170	476.000	476,00	0,48
Memur	0,7	1400	980	225	220.500	220,50	0,22
Toplam	2,7		3.780		696.500	696,50	0,70

Records of the Amounts of Waste Delivered for Paper and Waste Recycling in Faculties/Vocational Schools/Department Directorates
(Kütahya Dumlupınar University, Türkiye)

[3.4] Program to Reduce the Use of Paper and Plastic on Campus

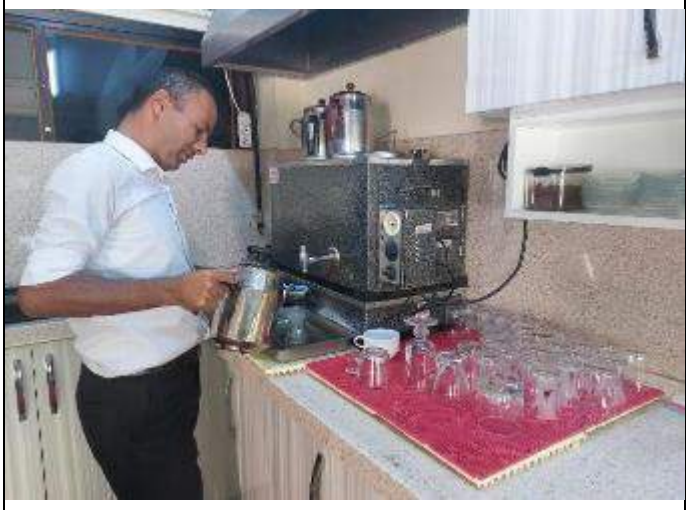


1. Electronic Information Management System (Kütahya Dumlupınar University, Türkiye)	2. Student Information System (Kütahya Dumlupınar University, Türkiye)
	
3. Learning Management System (Kütahya Dumlupınar University, Türkiye)	4. Scientific Research Projects Automation (Kütahya Dumlupınar University, Türkiye)
	
5. Advanced Technologies Design Research Development and Application Centre Automation System (Kütahya Dumlupınar University, Türkiye)	6. E-Certification (Kütahya Dumlupınar University, Türkiye)
	

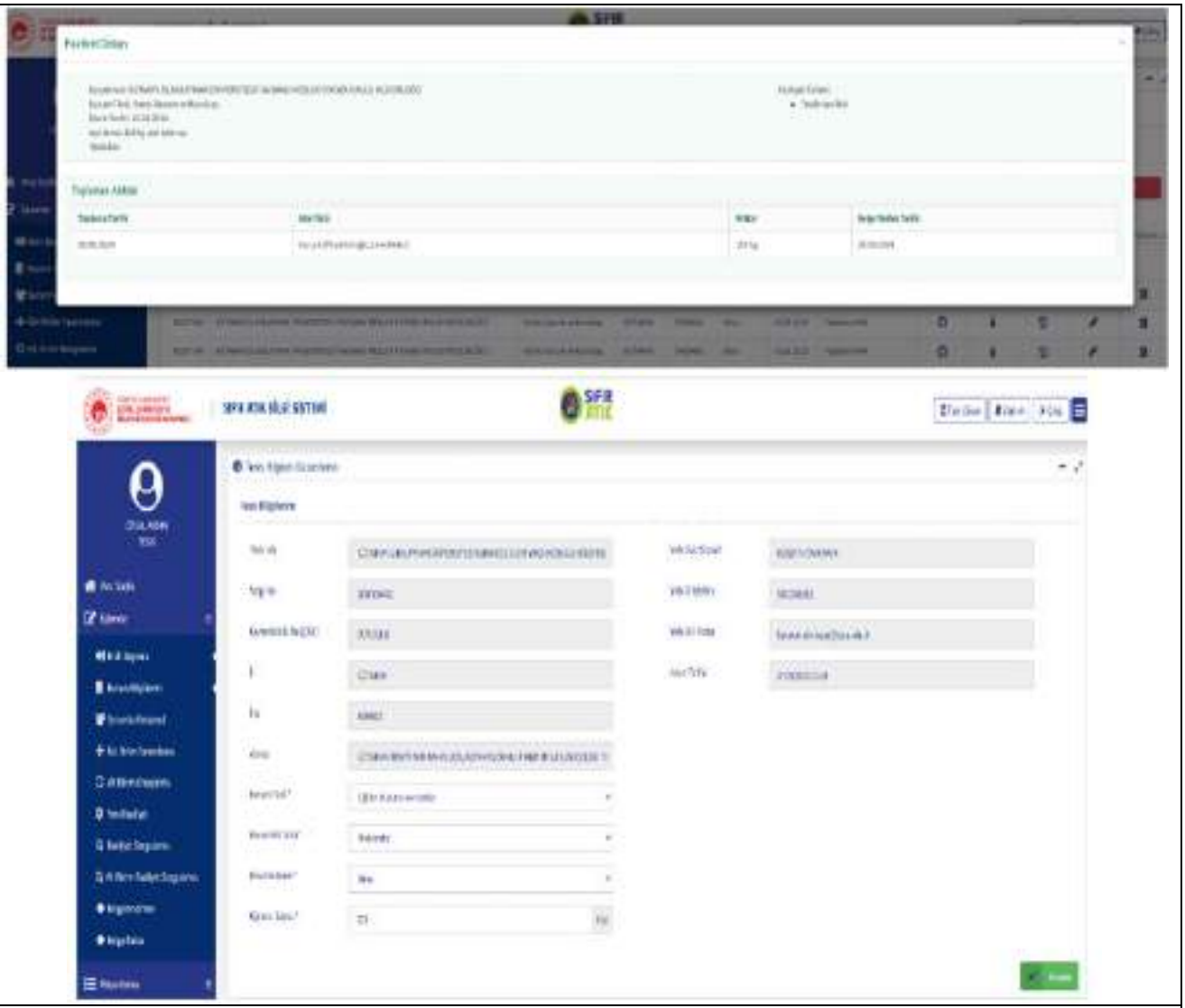
7. Department Inventory Lists in Departments (Kütahya Dumlupınar University, Türkiye)	8. QR Code Applications of the Departments (Kütahya Dumlupınar University, Türkiye)
	

9. Zero Waste Markets
(Kütahya Dumlupınar University, Türkiye)

10. Waste Collection Points
(Kütahya Dumlupınar University, Türkiye)



11. Use of glass cups in cafeterias (Kütahya Dumlupınar University, Türkiye)	12. Examples of Recyclable Cloth Bags (Kütahya Dumlupınar University, Türkiye)
	
13. Composting Practices (Kütahya Dumlupınar University, Türkiye)	14. Waste Collection Activity (Kütahya Dumlupınar University, Türkiye)
	
15. University Waste Recycling Program (Kütahya Dumlupınar University, Türkiye)	16. Paper and Cardboard Collection Points (Kütahya Dumlupınar University, Türkiye)
	
16. Example of Reducing Plastic Use (Kütahya Dumlupınar University, Türkiye)	17. Water Treatment Systems (Kütahya Dumlupınar University, Türkiye)



18. Integrated Environmental Information System Applications
(Kütahya Dumlupınar University, Türkiye)

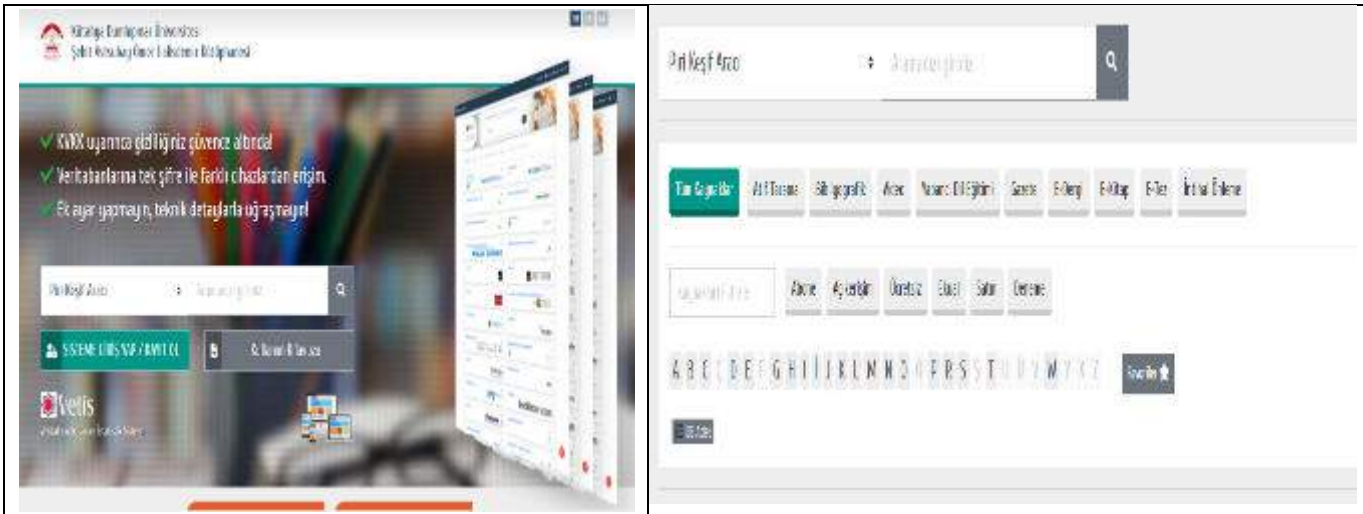
19. Practices to Reduce Paper and Plastic Use
(Kütahya Dumlupınar University, Türkiye)

20.Book Collection and Sharing Event
(Kütahya Dumlupınar University, Türkiye)

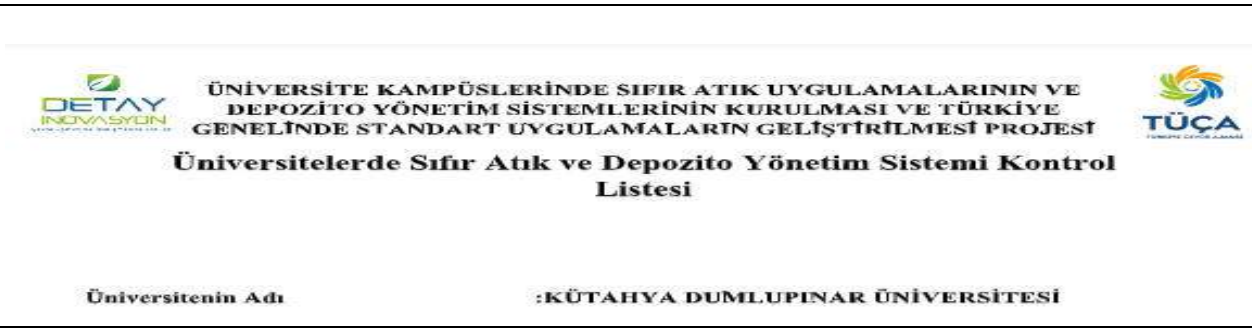
21. Student Cafeteria Reusability (Kütahya Dumlupınar University, Türkiye)

22. Personnel Cafeteria Reusability (Kütahya Dumlupınar University, Türkiye)

23. Examples of Recycling Practices (Kütahya Dumlupınar University, Türkiye)



24. Remote Access to Library Resources (Kütahya Dumlupınar University, Türkiye)



25. Zero Waste Practices in Cabbage and Establishment of a Deposit Management System Project (Kütahya Dumlupınar University, Türkiye)

T.C.
KÜTAHYA VALİLİĞİ
Çevre ve Şehircilik İl Müdürlüğü

SIFIR ATIK

SIFIR ATIK BELGESİ
(Temel Seviye)

26. Zero Waste Certificate
(Kütahya Dumlupınar University, Türkiye)

Various digital systems implemented at Kütahya Dumlupınar University as part of the Campus Paper and Plastic Reduction Program are making a significant contribution to environmental sustainability. The Electronic Information Management System makes it possible to conduct all correspondence without using paper and plastic files, while significantly reducing paper waste (Figure 1). With the Student Information System, all grade entries, course schedules, and student-faculty communication are tracked digitally, eliminating the need for paper-based transactions (Figure 2). With the Learning Management System, distance education, exams, assignments, and course materials are conducted entirely in a digital environment (Figure 3). This reduces paper usage related to lessons and creates a sustainable learning environment. Applications such as the Automation of Scientific Research Projects and the Advanced Technologies Design Research Development and Application Centre Automation System, on the other hand, manage all research applications, documents, files, academic reviews, and purchasing processes online, thereby minimizing the use of paper and plastic files and plastic equipment, and making a positive contribution to environmental impact (Figure 4 and Figure 5).

Academic staff are required to change the schedules they post on their office doors every semester to facilitate communication with students. To prevent paper waste, paper changes are avoided each term by announcing their programs or announcements through a QR code application (Figure 8). The inventory of laboratory equipment and consumables existing in various units is shared in a digital inventory management system instead of being archived in paper files (Figure 7). Thanks to this system, excessive chemical intake is prevented and waste generation is reduced. The aim is to reduce paper usage by sharing digital copies of participation certificates issued after certification training conducted by units such as the Continuing Education Center and AFAMER (Figure 6). Additionally, the reporting and recording of waste using the Integrated Environmental Information System is monitored digitally, thus preventing the excessive use of paper and plastic (Figure 18).

Zero Waste Markets are facilities established to make the collection and sorting of waste visible. Students, campus staff, and academics can earn points by bringing the paper, plastic, and other waste they collect to this market. Individuals who collect points equal to the amount of waste they gather can use these points to purchase products they need from the Zero Waste Market. At the same time, collected paper and plastic waste is incorporated into the recycling process, which increases the positive impact on the environment (Figure 9).

Kütahya Dumlupınar University has established "Mobile Waste Collection Centers" on campus, adopting an environmentally friendly approach. These centers are placed at various points across the campus to facilitate the collection of many different waste categories, including paper and plastic (Figure 15 and Figure 16). Each center has separate compartments for paper, plastic, glass, metal, electronic waste, batteries, used oil, stale bread, and textile waste. In this way, waste is collected by being separated at the source and is recovered for recycling. Along with this project, a map of Waste Collection Points prepared on campus and in the city center where the university is located has also been created. Thanks to this map, collection points for various types of waste such as packaging waste, paper, plastic, glass, metal, electronic waste, batteries, waste oil, stale bread, and textile waste have been marked, making it easier for all this waste to reach collection centers. Users can easily find the nearest waste collection point on the map and drop off their waste at these centers after properly sorting it. This application has many benefits. First, the proper sorting and collection of waste increases recycling rates and supports environmental sustainability in this process. Additionally, thanks to the mapping system, the waste collection process is carried out much more effectively both within the campus and throughout the city. As a result, recyclable materials such as paper and plastic are recovered instead of being discarded into nature. This application not only raises awareness for the university community but also for the local population, contributing to the spread of zero-waste consciousness in a wider circle (Figure 10).

Kütahya Dumlupınar University is systematically expanding the use of reusable products in its canteens and dining halls in line with its zero waste policies. By using glass cups in cafeterias, the consumption of plastic and paper cups is being reduced, thus minimizing the environmental impact of single-use products (Figure 11). In student and staff cafeterias, food service is provided using reusable plates, cutlery, and cups, thereby reducing waste generation and supporting environmental sustainability (Figure 21 and Figure 22). Additionally, water purifiers are installed on office faucets to prevent the consumption of single-use plastic bottles or cups (Figure 17). These practices aim to reduce the university's environmental footprint while also increasing stakeholders' awareness of sustainability. Additionally, the use of reusable, personalized thermos cups is being encouraged to prevent the generation of waste paper and plastic cups (Figure 19).

Reusable plastic materials are preferred in the campus laboratories to reduce plastic usage (Figure 16). After these materials are washed and sterilized, they are reused, thus reducing the need for new plastic.

Waste generation is reduced. Additionally, efforts are being made to prevent the generation of waste paper by encouraging the use of double-sided paper in the units (Figure 19 and Figure 14).

Kütahya Dumlupınar University has implemented various practices to reduce the use of plastic bags within the framework of zero waste policies (Figure 26). Additional charges are applied for plastic bags in university-affiliated stores and cafeterias, thereby encouraging students and staff to use cloth bags and reusable bags (Figure 12). This application contributes to preventing environmental pollution by reducing plastic consumption. Additionally, awareness campaigns were emphasized across the campus; informative posters highlighting the negative environmental impacts of plastic bags and promoting the use of sustainable alternatives were prepared and placed in visible areas. All these steps support the establishment of environmentally friendly consumption habits within the university community and serve the institution's sustainability goals.

Composting machines are used to prevent the environmentally harmful disposal of organic waste and to contribute to the recycling process (Figure 13). These machines process organic waste collected from the dining hall and other campus areas, converting it into natural fertilizer called compost.

Kütahya Dumlupınar University is organizing a Book Sharing and Book Donation Campaign to contribute to sustainability goals (Figure 20). The Book Sharing and Book Donation Campaign aims to promote a reading culture within the university and use resources efficiently. Students are participating in this campaign by sharing books they haven't read or textbooks donated by upperclassmen to lowerclassmen. In this way, both reuse is encouraged and resource waste is prevented.

Activities were organized in the departments to make artistic objects from recycled paper and plastic waste to reduce paper and plastic waste. In this event, used paper and plastics are transformed into creative works and exhibited in various areas (Figure 23).

Kütahya Dumlupınar University facilitates access to information with its Remote Access to Library Resources offered to academics and students (Figure 24). Thanks to this system, users can access library resources online from anywhere to conduct literature searches, gain free access to many different digital libraries, read articles, and use the necessary materials for language development. The remote access system minimizes processes requiring face-to-face interaction by increasing access to books and other resources. Thus, the use of paper and plastic is greatly reduced, contributing to the university's sustainability goals. This application increases the efficiency of academic studies and reduces environmental impact.

The Zero Waste Practices and Deposit Management System Establishment Project on campus is being used by Kütahya Dumlupınar University to improve waste management and increase environmental sustainability (Figure 25). With this system, the collection, separation, and recycling of waste such as paper, plastic, glass, and metal across the entire campus are ensured, while all waste data is digitally tracked through online registration systems. This online system makes it possible to regularly record the amounts of waste collected and analyze this data by the relevant units. Additionally, thanks to the deposit management system, students and staff earn points based on the amount of waste they collect by contributing to the recycling process, thus supporting the spread of zero-waste awareness and increasing environmental consciousness.

[3.5] Total Volume Organic Waste Produced This Year

The total amount of organic waste produced on our campus this year comes from various sources, and the management of this waste plays a significant role in ensuring environmental sustainability. Below are the main components of organic waste on our campus and their estimated annual production:

Canteen Waste: The student and staff canteen is a significant source of organic waste production. Materials such as food scraps, vegetable peels, and cooked food remnants make up the total annual organic waste.

Personal Waste: Students, faculty, and other staff members on campus during class hours each generate daily personal organic waste that can be categorized as trash.

Garden and Landscape Waste: This is obtained from waste generated during pruning and leaf removal operations during the maintenance of green areas on our campus.

Other Organic Waste: Organic waste from different activities, such as the residues remaining after cold pressing and chemical distillation of lavender collected from lavender fields, or fruit falling from fruit trees, was also collected annually.

When this data is combined, the total annual amount of organic waste on our campus is calculated to be 1150.61 tons. As a result of these studies conducted by our University for the processing of organic waste, organic waste is partially processed.

Of the 71.12 tons of organic waste, they were classified as "reusable" because they were waste that could be consumed directly by animals, such as milk, or used directly in animal feed as cooked ready-to-eat foods. Advanced recycled organic waste amounts to 71.37 tons and is utilized in the production of solid biofuel called pellets, which are produced by compacting with trash and lawn clippings and undergoing various physicochemical processes. The majority of organic waste is classified as recycled.

Most of this waste is used in fertilizer production, while some of it is subjected to simple drying and grinding processes and then used as animal feed.

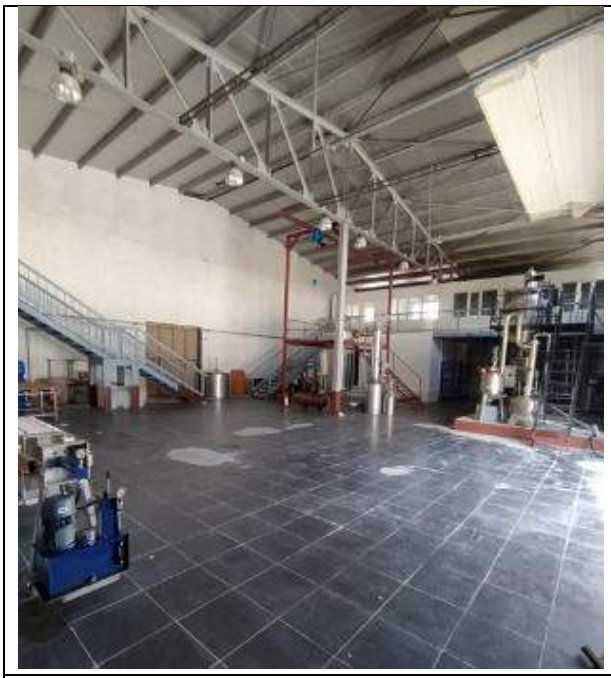
The inclusion of organic waste in recycling and composting processes makes a strategic contribution to reducing environmental impacts, while also aiming to raise awareness among university stakeholders about sustainability and recycling issues.

Waste from lavender oil production
(Kütahya Dumlupınar University, Türkiye)

Leaves falling from trees on campus
(Kütahya Dumlupınar University, Türkiye)

Products formed during the composting process
(Kütahya Dumlupınar University, Türkiye)

<table>
<tr><td>  </td><td> 
</td></tr>
<tr><td>Composting Machine
(Kütahya Dumlupınar University, Türkiye)</td><td>Food waste used in animal nutrition
(Kütahya Dumlupınar University, Türkiye)</td></tr>
<tr><td> 
</td><td>  </td></tr>
<tr><td>Animal shelters where food waste is sent
(Kütahya Animal Shelter, Türkiye)</td><td>Lawn mowing waste
(Kütahya Dumlupınar University, Türkiye)</td></tr>
<tr><td> 
</td><td>  </td></tr>
<tr><td>Garden waste used in pellet production (Kütahya Dumlupınar University, Türkiye)</td><td>Tree branch waste used in sawdust production
(Kütahya Dumlupınar University, Türkiye)</td></tr>
</table>




Cold pressing units and resulting organic waste
(Kütahya Dumlupınar University, Türkiye)

Fruit waste falling from trees
(Kütahya Dumlupınar University, Türkiye)

[3.6] Total Volume Organic Waste Produced Last Year

The amount of organic waste generated has slightly decreased compared to the previous year, with a portion successfully reduced and reused through waste management practices.

[3.7] Total Volume Organic Waste Treated This Year

The overall organic waste generation has further declined from the previous year, with significant amounts effectively reduced, reused, and treated through recycling and recovery processes.

[3.8] Organic Waste Treatment

Kütahya Dumlupınar University Chemical Product Development Application and Research Center (KİMGEM) has taken important steps in the field of sustainable environment and agricultural practices and started lavender oil and compost fertilizer production in Kütahya. This project was implemented in order to contribute to the recycling of plant waste and the production of natural products in line with environmental sustainability goals. This initiative of KİMGEM both supports regional economic

development and shows the importance the university attaches to environmentally friendly production processes. KİMGEM's lavender oil and compost production is one of the important steps taken by the university in line with its green campus goals.

Kütahya Dumlupınar University continues to undertake important projects within the framework of sustainable energy and environmentally friendly practices. In the project carried out under the title of "Kütahya Dumlupınar University's organic waste is being converted into pellets", garden waste is being recycled and converted into energy in the unit established in Tavşanlı Vocational School campus. 10 tons of pellets obtained in this process were used in the heating of the school, thus both energy saving was achieved and a sustainable model was created in waste management. This project demonstrates the university's determination to fulfill its environmental responsibilities and its success in the field of energy efficiency.

Kütahya Dumlupınar University continues to attract attention with its sustainable environmental policies and waste management projects. In the project carried out under the title of "University students in Kütahya contribute to recycling by separating waste in cafeterias", DPU students actively participate in the recycling process by consciously separating waste in cafeterias. This practice is an important step in terms of proper waste management and protection of natural resources, and encourages the university's awareness of environmental sustainability and student participation. The project both raises environmental awareness in students and contributes to the recycling of waste in line with the university's green campus goals.

Kütahya Dumlupınar University hosts important technologies that support sustainability efforts. Branch crushing and sawdust making machines are among the environmentally friendly equipment used in the center and recycle garden waste and return it to nature. Thanks to these machines, tree branches and other organic waste are broken down and converted into sawdust and included in the recycling process. The sawdust obtained can be used as biofuel, as well as being used in agricultural production and composting. This application is an indication of the importance the university attaches to waste management and renewable energy use and is an important step towards green campus goals.

Students of Kütahya Dumlupınar University Domaniç Hayme Ana Vocational School have implemented an important project in line with environmental awareness and sustainability. This project, which is carried out under the title of "The project initiated by the students of Kütahya Dumlupınar University Domaniç Hayme Ana Vocational School is carried out in cooperation with Domaniç Municipality", aims to collect vegetable waste oils within the scope of the Zero Waste approach. In this context, Domaniç Municipality signs a contract with a licensed waste oil collection facility and ensures that the collected vegetable waste oils are sent for recycling. This cooperation contributes to the recycling of waste oils without harming the environment and supports the implementation of sustainable environmental policies. The project is a valuable contribution of university students to environmental sustainability with a sense of social responsibility.

Kütahya Dumlupınar University continues to develop sustainable projects by contributing to environmentally friendly production processes. The Aromatic Oil Production Facility and Steam Heating System Distillation Unit established within the university ensure that oils obtained from natural plants are produced in an environmentally friendly manner. This facility prevents the waste of natural resources and supports environmentally friendly production processes by using a steam heating system that increases energy efficiency in the processing of plant products. The production of aromatic oils both contributes to the local economy and sets an example for sustainable agriculture and production practices. This

innovative project is an indication of the importance the university attaches to environmental sustainability in line with its green campus goals.

Kütahya Dumlupınar University draws attention with the importance it gives to environmentally friendly technologies and innovative applications. The Laboratory-Scale Steam Heating System Distillation Unit and Pure Water Unit located at the university are among the important infrastructures that serve the goals of environmental protection and sustainable resource use. The steam heating system distillation unit allows herbal products to be processed without harming the environment, while the pure water unit enables the water used in research and production processes to be purified and reused. These systems enable the efficient use of energy and water resources, demonstrating the university's commitment to environmental sustainability and resource management.

Kütahya Dumlupınar University contributes to the environmentally friendly production of natural oils with its Cold Pressing Unit and Cold Pressing Filtering Unit, which support environmentally friendly production methods. These units provide both energy savings and the preservation of the natural characteristics of plants by enabling the processing of vegetable oils at low temperatures. While oils produced with the cold pressing method stand out as the product of a healthier and more environmentally friendly production process, the filtering unit also makes it possible to obtain high quality oils. This innovative approach makes a significant contribution to the university's sustainable production and green campus goals.

Lavender oil is a popular essential oil obtained by steam distillation. The basic equipment used in this process includes a steam distiller, cooling systems, storage tanks and filtration systems. Measures to minimize environmental impacts such as energy efficiency of equipment, water management and waste management are critical for sustainable production. In particular, the use of innovative technologies to reduce energy consumption, water recycling and the use of natural materials contribute to both ecosystem protection and economic efficiency. Thus, lavender oil production adopts a healthier approach in terms of environmental sustainability.

In the information letter from the rectorate in the use of zero waste bins in line with the zero waste targets at the university is emphasized. Zero waste bins stand out as an important tool that encourages recycling and waste reduction. The use of these bins aims to raise awareness among students and staff and improve waste management. In addition, it is aimed to contribute to environmental sustainability by increasing recycling rates. The letter states the importance of using zero waste bins correctly, the separation of waste, and the responsibility of each individual in this process. Thus, the university community is encouraged to adopt the zero waste concept and to take concrete steps towards reducing environmental impacts.

Kütahya Dumlupınar University processed park, garden and lavender waste and mowed grass generated on its campuses through the unit established in Tavşanlı Vocational School. As a result of this process, a total of 10 tons of pellet production was achieved. Pellet is a type of fuel obtained by compressing plant waste and is among the renewable energy sources. This application contributes to environmental sustainability and encourages recycling of waste within the framework of the university's waste management strategies. The conversion of plant waste into energy both supports the efficient use of natural resources and enables the university to take concrete steps towards its zero waste targets. Such projects serve the purpose of creating a sustainable campus by increasing the environmental awareness of the university community.

Kütahya Dumlupınar University has developed applications that aim to reduce paper waste through digital systems. With the Student Information System, students can learn their own exam results, while graduation information and course records become accessible in the system. This minimizes the use of

paper documents and provides sustainable information management. In addition, with the Learning Management System, faculty members can upload distance education courses; videos, course documents, and online exams are made available to students. In this way, waste caused by traditional paper documents is significantly reduced. The Electronic Document Management System allows internal university announcements and official correspondence to be carried out without paper waste. Through the Scientific Research Projects System, faculty members can apply for projects in a digital environment; this reduces paper consumption caused by official correspondence. All these digital applications both support environmental sustainability and contribute to the university's zero waste goals.

The Wood Recycling Facility established on campus produces furniture and recycling bins from recycled materials. Thanks to this facility, wooden items that are in disuse are repaired or transformed to obtain new products. For example, old desks, tables and bookcases are rearranged according to needs, thus saving costs and contributing to less consumption of natural resources. This practice serves the purpose of reducing waste as well as increasing environmental awareness. The recycling process not only supports environmental sustainability, but also provides educational opportunities to the university community that explain the importance of recycling. Thus, the 3R (Reduce, Reuse, Recycle) principles are effectively contributed to, and the campus is supported to move towards a greener and more sustainable future.

Kütahya Dumlupınar University has established a Zero Waste Management System in order to strengthen its commitment to environmental sustainability and waste management and has earned the Zero Waste Certificate. This system includes a series of strategies and practices that encourage the reduction, reuse and recycling of waste at source. Our university has developed various projects to make waste management more effective and to minimize environmental impacts. Thanks to the Zero Waste Management System, environmental awareness has been increased at both student and staff levels, effective management of waste has been ensured and contribution has been made to the protection of natural resources. This document demonstrates our university's environmental responsibilities and determination to achieve sustainability goals. Kütahya Dumlupınar University is taking important steps in the field of environmental sustainability by creating an exemplary model not only within the campus but also for the society with this system. The "Zero Waste Certificate" is presented.

The “Toy Design Activity from Recycling” in provided students with the opportunity to make creative toys using waste materials. This activity was organized to increase environmental awareness and enable participants to experience practical applications of recycling. Students had a fun and educational process by evaluating used cardboards, plastic bottles and other waste materials. The activity aimed to show that recycling is not only an environmentally friendly practice but also a process that encourages creativity. By combining teamwork and creativity, participants experienced the importance of reusing waste materials and gained awareness on this subject. Thus, the activity provided both a fun learning environment and contributed to the development of sustainability awareness.

The Zero Waste Market has been opened, taking our university's sustainability efforts to a higher level. Students, campus employees, and academics have the opportunity to earn points by bringing the paper, plastic, and other waste they collect to this market. Individuals who collect points for the amount of waste they collect can use these points to purchase the products they need from the Zero Waste Market. This application not only ensures that waste is recycled but also contributes to the development of environmental awareness in the community by increasing the positive impact on the environment.

The majority of organic waste is classified as recycled. While most of this waste is used in fertilizer production, some is processed into animal feed after simple drying and grinding.

Incorporating organic waste into recycling and composting processes makes a strategic contribution to reducing environmental impacts and also aims to raise awareness among university stakeholders about sustainability and recycling.

Kütahya Dumlupınar University aims to recycle and process organic waste. Approximately of waste generated annually at our university, including pruned branches and leaves, is being converted into compost fertilizer using a composting machine at our Chemical Product Development Application and Research Center. A contract has been signed with the Kütahya Municipality Cleaning Services Directorate for the collection and recycling of waste vegetable oils. Waste oil recycling at Kütahya Dumlupınar University is carried out by HABİTAT RECYCLING AND ENVIRONMENT IND. TRADE LTD. ŞTİ. It has established a Zero Waste Management System in accordance with the Zero Waste Regulation and has been awarded a Zero Waste Certificate.

As a result of these efforts carried out by our university for the processing of organic waste, organic waste is partially processed. As a result of these studies, our university processes all of its organic waste (more than 75% processing).

[3.9] Total Volume Inorganic Waste Produced This Year

The generation of inorganic non-toxic waste remained relatively stable, with a portion being reused, particularly in metal and glass categories.

[3.10] Total Volume Inorganic Waste Produced Last Year

The amount of inorganic non-toxic waste showed minor fluctuations compared to the previous year, with a small portion reused, mainly in metal and glass categories.

[3.11] Total Volume Inorganic Waste Treated This Year

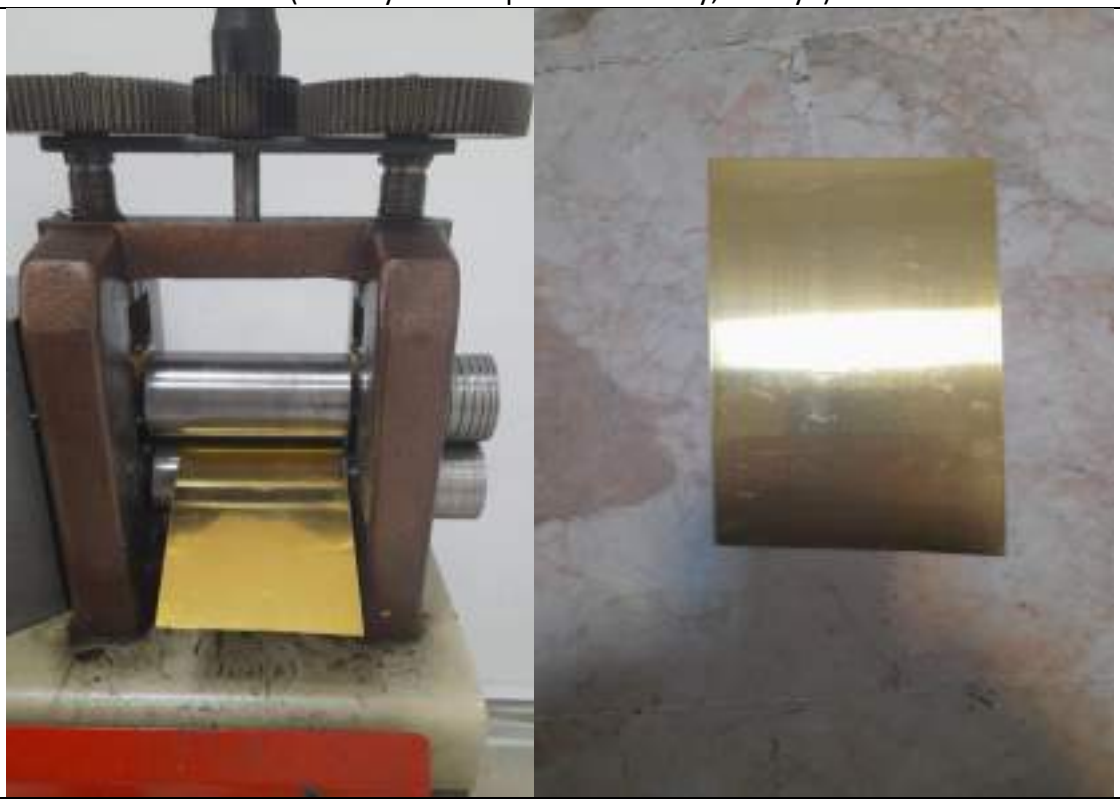
The amount of inorganic non-toxic waste remained nearly constant, with limited reuse efforts primarily focused on metal and glass materials.

[3.12] Inorganic Waste Treatment


DPÜ'de Atık Malzemeler Sanat Eserine Dönüşüyor

Example 1. Barrier-Free Hobby Workshop
(Kütahya Dumlupınar University, Türkiye)

Example 2. Student Societies Cafeteria Waste Recycling Activity
(Kütahya Dumlupınar University, Türkiye)



Example 3. Metal Recycling Process
(Kütahya Dumlupınar University, Türkiye)

Example 4. Reusable ingot production
(Kütahya Dumlupınar University, Türkiye)

Example 5. Metal Recycling Process
(Kütahya Dumlupınar University, Türkiye)

Example 6. Metal Recycling Process
(Kütahya Dumlupınar University, Türkiye)

Example 7. Zero Waste Market Application
(Kütahya Dumlupınar University, Türkiye)

The Accessible Student Unit at Kütahya Dumlupınar University in Example 1 allows students to produce creative projects with waste materials. In this context, students produce unique jewelry and souvenirs by evaluating used materials. As can be seen in the visual, students use their own creativity to create both

aesthetic and functional products, while also reinforcing their sustainability awareness. This project not only helps students experience the practical applications of recycling, but also helps them develop their manual skills and gain awareness of social responsibility. Such activities of the Accessible Student Unit both support environmental sustainability goals and strengthen solidarity within the community by increasing students' social interactions. These works produced with waste materials both reflect an environmentally sensitive approach and push the boundaries of creativity.

The Cafeteria Waste Recycling Activities (Example 2) organized at Kütahya Dumlupınar University are an important initiative that aims to increase sustainability and environmental awareness. This activity was carried out to ensure that the waste generated in the university cafeteria is properly separated and recycled. During the activity, students placed specially designed boxes in the cafeteria area to separate organic and inorganic waste, and organized informative activities with the cafeteria staff to increase awareness about recycling. In this way, food leftovers and other waste were collected correctly and included in the recycling processes. Such activities make significant contributions to both raising environmental protection awareness and spreading sustainable living habits. These activities, carried out with the active participation of students, enable the university community to fulfill its environmental responsibilities and take concrete steps towards the protection of natural resources.

Kütahya Dumlupınar University systematically carries out metal recycling processes in order to support environmental sustainability. This process both optimizes waste management and contributes to the protection of natural resources. The processes shown in Examples 3, 4, 5 and 6 detail each stage of this comprehensive recycling process.

Melting Process: The first stage is the collection of residual metal waste and melting it in a recycling furnace. This process is carried out by melting metal waste at high temperatures. The melting process restores the physical properties of the metal and provides the liquid metal required for recycling. This stage is of critical importance for the reuse of the metal, because in this way, the damage of the waste to nature is minimized.

Casting into Ingots: After the melting process is complete, the resulting liquid metal is poured into special molds to turn it into ingots. Ingots form the basic raw material of the recycling process and are ready to be used in many industrial applications. This stage is a critical step in the subsequent processing of the metal into new products.

Rolling Process: Ingots are subjected to a rolling process to increase workability. In this process, metal ingots are thinned by passing them through a cylindrical machine. The thinning process reduces the micron size of the metal, allowing thinner and lighter materials to be obtained. In this way, the recycled metal becomes more suitable for various applications.

Results and Environmental Impact: The processes in the images show how comprehensive and systematic an approach recycling requires. The metal recycling process not only helps preserve natural resources, but also significantly reduces waste. This practice is one of the important steps taken by the university community to achieve environmental sustainability goals.

As a result, this recycling process contributes to the increase of environmental awareness and reinforces the sustainability knowledge of students and staff. Our university continues its efforts to create an important model for a greener environment in the future with such systematic practices.

In Example 8 the Zero Waste Market has been opened, and this takes our university's sustainability efforts to a higher level. Students, campus employees, and academics have the opportunity to earn points by bringing the paper, plastic, and other waste they collect to this market. Individuals who collect points for

the amount of waste they collect can use these points to purchase the products they need from the Zero Waste Market. This application not only ensures that waste is recycled, but also contributes to the development of environmental awareness in the community by increasing the positive impact on the environment.

Our university is conducting the following activities to process inorganic waste:

1. 0.22 tons of metal and 0.28 tons of glass inorganic waste are first collected in landfills at the university and then collected and recycled by the Kütahya Municipality.

2. DPU is working with Has Erdoğmuşlar to treat inorganic waste. As a result of these efforts, our university is processing all of its inorganic waste (>75% processing).

[3.13] Total Volume Toxic Waste Produced This Year

The generation of toxic waste remained minimal, with a small portion successfully reduced, particularly in organic solvents, while other hazardous materials were managed through safe collection and disposal.

[3.14] Total Volume Toxic Waste Produced Last Year

The amount of toxic waste remained very low, with slight reductions achieved in organic solvents and proper management applied to batteries and fluorescent lamps.

[3.15] Total Volume Toxic Waste Treated This Year

The amount of toxic waste was kept at a very low level, with minor reductions achieved in organic solvents and safe disposal practices applied to batteries and fluorescent lamps.

[3.16] Toxic Waste Treatment

T.C
KÜTAHYA VALİLİĞİ
MAHALLİ ÇEVRE KURULU KARARI

Karar Tarihi :27/01/2021
Karar No :2021/08

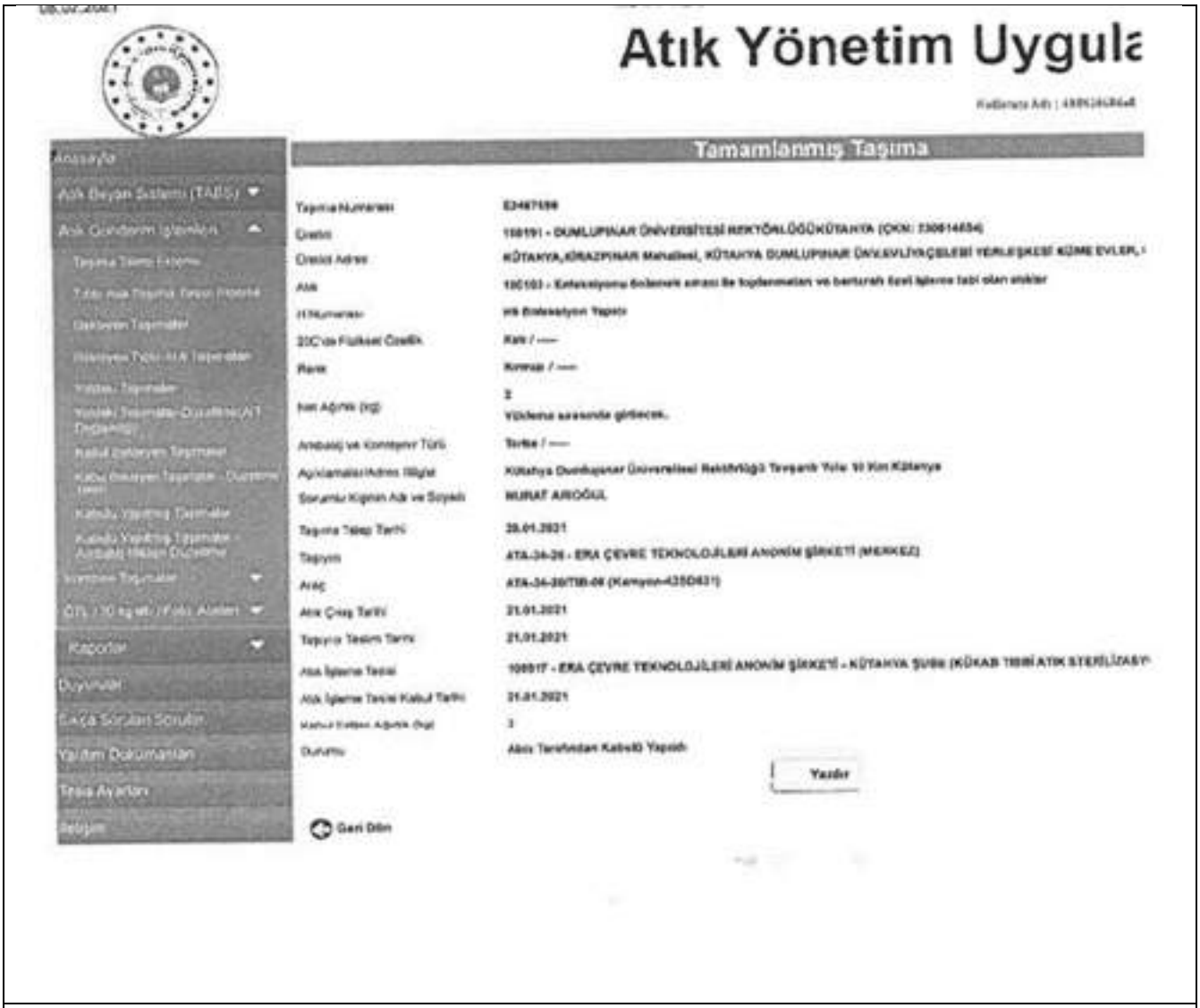
T.C
KÜTAHYA VALİLİĞİ
MAHALLİ ÇEVRE KURULU KARARI

Karar Tarihi :27/01/2021
Karar No :2021/08

Era Environmental Technologies Joint Stock Company Agreement
(Kütahya Dumlupınar University, Türkiye)

Medical Waste Storage	Sterilization Facility
	
Toxic Waste Storage Warning Signs (Kütahya Dumlupınar University, Türkiye)	
	
Toxic Waste Storage (Kütahya Dumlupınar University, Türkiye)	

Era Environmental Technologies Joint Stock Company Payment (Kütahya Dumlupınar University, Türkiye)



Waste Management Application (Kütahya Dumlupınar University, Türkiye)

Clean environment activity on campus (Kütahya Dumlupınar University, Türkiye)


Inorganic Waste Collection and Treatment (Kütahya Dumlupınar University, Türkiye)

Packaging waste recycling collection example
(Kütahya Dumlupınar University, Türkiye)

Waste Battery Collection Unit
(Kütahya Dumlupınar University, Türkiye)

Blue cap collection activity
(Kütahya Dumlupınar University, Türkiye)

DPÜ'de Atık Malzemeler Sanat Eserine Dönüşüyor

Barrier-Free Hobby Workshop (Kütahya Dumlupınar University, Türkiye)

Geri Dönüşüm Karton ile Akrilik Boya Çalışmaları

Sosyal Sorumluluk / 04 Nisan 2024

T.C. Kütahya Dumlupınar Üniversitesi

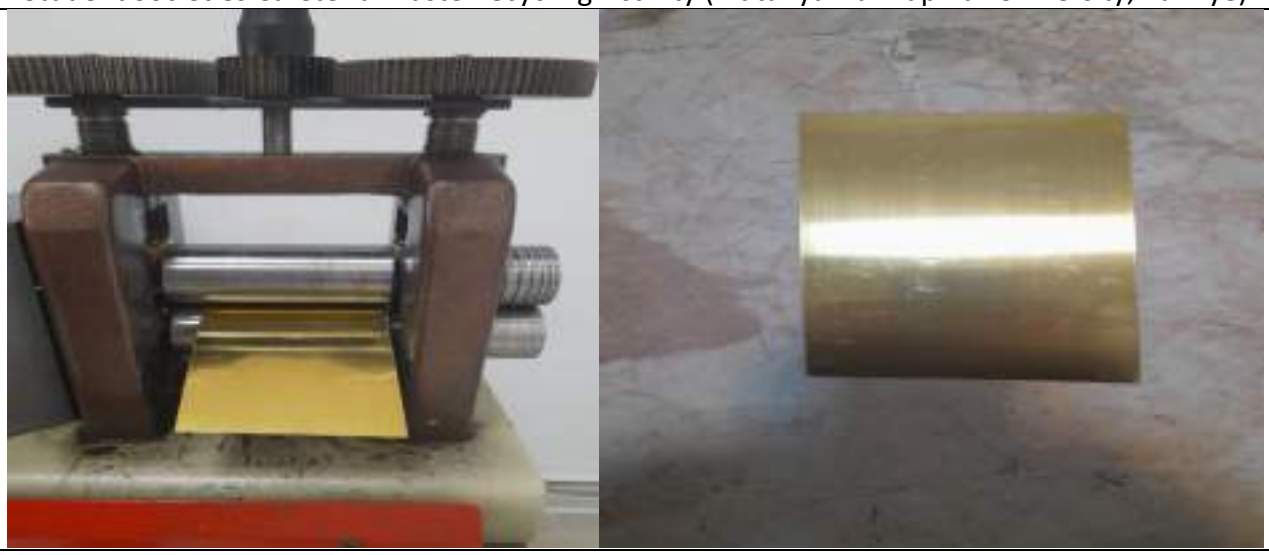
Engelsiz Hobi Atölyesi

Usta Eğitici Hikmet Yılmaz

Barrier-Free Hobby Workshop (Kütahya Dumlupınar University, Türkiye)

Inorganic waste recycling collection example (Kütahya Dumlupınar University, Türkiye)

Student Societies Cafeteria Waste Recycling Activity (Kütahya Dumlupınar University, Türkiye)



Metal Recycling Process (Kütahya Dumlupınar University, Türkiye)

Reusable ingot production (Kütahya Dumlupınar University, Türkiye)

Metal Recycling Process (Kütahya Dumlupınar University, Türkiye)

Metal Recycling Process (Kütahya Dumlupınar University, Türkiye)


Staff Dining Hall Reusability (Kütahya Dumlupınar University, Türkiye)

Zero Waste Market Application (Kütahya Dumlupınar University, Türkiye)

Our university contains a minimal amount of toxic waste. All of this waste is recycled at Medical Waste Sterilization Facilities and by Era Company.

A contract has been signed with Era Environmental Technologies Inc. DPU acts in accordance with the decision of the Kütahya Governorate Local Environmental Board regarding the recycling of medical waste. A contract has been signed with Era Environmental Technologies Inc., a subsidiary of the Kütahya Governorate, which operates as a medical waste facility in our province. Under the relevant medical waste contract, medical waste generated in the central and all district municipalities in the provinces where medical waste processing facilities are located is sent to the provincial medical waste processing facility.

In addition, DPU utilizes the Waste Management Application. DPU utilizes the Waste Management Application, developed by the Ministry of Environment and Urbanization of the Republic of Turkey, which aims to monitor, control, and report all processes from waste generation to recycling or disposal.

As a result of these efforts for the treatment of toxic waste, all toxic waste is processed.

Our university hosts various events organized by student societies in order to increase environmental sustainability and social awareness. The Student Societies Garbage Collection Activities these important works carried out by students on campus. Within the scope of these activities, students carry out important processes such as garbage collection, recycling, waste separation and inorganic waste

collection. These activities, carried out with the active participation of students, contribute greatly to the development of environmental awareness and help maintain the cleanliness and order of the campus. Garbage collection activities allow students to interact with nature and gain practical experience in recycling and waste management. Such activities support the implementation of the 3R (Reduce, Reuse, Recycle) principles and contribute to the increase of environmental protection awareness within the community.

The inorganic products treatment facility shown one of the important steps in achieving our university's environmental sustainability goals. This facility was established to ensure that inorganic waste is effectively processed and reused. As can be seen in the image, it minimizes negative impacts on the environment thanks to treatment processes. Treatment processes play a critical role in making waste reusable and protecting natural resources. Such facilities emphasize the importance of sustainable practices for both the university community and the environment and instill environmental awareness in students. Treatment of inorganic products supports recycling processes and makes an important contribution to achieving zero waste goals.

The packaging waste recycling collection example an important project implemented by our university to support environmentally friendly practices. This system ensures that packaging waste is collected effectively and recycled. The recycling bins seen in the visual allow students and staff to easily separate and correctly evaluate packaging waste. The waste battery collection unit presented specially designed to correctly collect batteries, which are among the hazardous waste, and include them in the recycling processes. This unit both helps prevent environmental pollution and raises awareness in the university community about waste management. Both visuals demonstrate our university's determination to achieve sustainability goals and its efforts to increase environmental awareness. Such practices convey the importance of recycling to both students and society and ensure that important steps are taken towards reducing environmental impact.

The blue cap collection event organized with the aim of increasing social awareness and supporting the disabled at our university. Within the scope of this event, 30,000 blue caps were collected, contributing to the provision of wheelchairs for disabled individuals in need. The caps seen in the image not only contribute to recycling processes but also have an important place as a social responsibility project. Students, staff and the university community actively participated in this meaningful project, bringing together environmental awareness and social solidarity. The blue cap collection event once again demonstrates the importance our university attaches to both environmental and social responsibility projects in line with its sustainability goals. Such events strengthen the spirit of solidarity within the community and contribute to the spread of environmentally friendly practices.

The Accessible Student Unit at Kütahya Dumlupınar University allows students to produce creative projects with waste materials. In this context, students produce unique jewelry and souvenirs by evaluating used materials. As can be seen in the visual, students use their own creativity to create both aesthetic and functional products, while also reinforcing their sustainability awareness. This project not only helps students experience the practical applications of recycling but also helps them develop their manual skills and gain awareness of social responsibility. Such activities of the Accessible Student Unit both support environmental sustainability goals and strengthen solidarity within the community by increasing students' social interactions. These works produced with waste materials both reflect an environmentally sensitive approach and push the boundaries of creativity.

In this workshop, where Master Trainer Hikmez Yılmaz participated as a guest, participants will have the opportunity to evaluate waste cardboards and come up with creative projects. The event aims to explore

the artistic aspects of recycling materials and emphasize the importance of environmentally friendly practices. Such events contribute to the sustainability goals of our university, while providing students and participants with the opportunity to express their creativity and develop environmental responsibility awareness. Participants will have the chance to increase their social sensitivity by developing their manual skills while learning about recycling processes.

A campus-wide system has been developed to encourage recycling of packaging waste throughout our university. This system ensures that different types of waste, such as plastic, paper, metal and glass, are collected in separate bins. This practice facilitates the separation of waste at source (Reduce) and the more efficient implementation of recycling processes. Recycling bins specifically designed for each type of material increase recycling awareness among both students and staff and encourage the correct collection of waste (Reuse). Separating packaging waste in this way significantly contributes to environmental sustainability by increasing recycling rates. In this way, the university community takes concrete steps towards more efficient use of resources and reduction of environmental pollution.

Our university carries out the waste collection process systematically in order to increase environmental sustainability. In this context, the Waste Collection Examples visual includes waste collection cages with special compartments designed to make recycling activities more visible throughout the campus. These cages provide clearly marked areas for easy separation of different materials such as plastic, paper, metal and glass. Each compartment is regularly checked to increase recycling awareness among students and staff, and timely collection of waste is ensured. Such systematic practices on campus not only contribute to more effective waste management but also aim to increase the environmental awareness of the university community. Thus, an important step is taken towards achieving our sustainability goals and a concrete contribution is made to reducing environmental pollution. Organizing recycling activities in this way not only maintains the cleanliness and order of the campus but also offers students the opportunity to gain environmental responsibility awareness.

The Cafeteria Waste Recycling Activities organized at Kütahya Dumlupınar University are an important initiative that aims to increase sustainability and environmental awareness. This activity was carried out to ensure that the waste generated in the university cafeteria is properly separated and recycled. During the activity, students placed specially designed boxes in the cafeteria area to separate organic and inorganic waste and organized informative activities with the cafeteria staff to increase awareness about recycling. In this way, food leftovers and other waste were collected correctly and included in the recycling processes. Such activities make significant contributions to both raising environmental protection awareness and spreading sustainable living habits. These activities, carried out with the active participation of students, enable the university community to fulfill its environmental responsibilities and take concrete steps towards the protection of natural resources.

Kütahya Dumlupınar University systematically carries out metal recycling processes in order to support environmental sustainability. This process both optimizes waste management and contributes to the protection of natural resources. The processes shown detail each stage of this comprehensive recycling process.

Melting Process: The first stage is the collection of residual metal waste and melting it in a recycling furnace. This process is carried out by melting metal waste at high temperatures. The melting process restores the physical properties of the metal and provides the liquid metal required for recycling. This stage is of critical importance for the reuse of the metal, because in this way, the damage of the waste to nature is minimized.

Casting into Ingots: After the melting process is complete, the resulting liquid metal is poured into special molds to turn it into ingots. Ingots form the basic raw material of the recycling process and are ready to be used in many industrial applications. This stage is a critical step in the subsequent processing of the metal into new products.

Rolling Process: Ingots are subjected to a rolling process to increase workability. In this process, metal ingots are thinned by passing them through a cylindrical machine. The thinning process reduces the micron size of the metal, allowing thinner and lighter materials to be obtained. In this way, the recycled metal becomes more suitable for various applications.

Results and Environmental Impact: The processes in the images show how comprehensive and systematic an approach recycling requires. The metal recycling process not only helps preserve natural resources, but also significantly reduces waste. This practice is one of the important steps taken by the university community to achieve environmental sustainability goals.

As a result, this recycling process contributes to the increase of environmental awareness and reinforces the sustainability knowledge of students and staff. Our university continues its efforts to create an important model for a greener environment in the future with such systematic practices.

Recycling processes place great importance on the effective management of medical waste in order to ensure health safety. Medical waste collected by the centers in the provinces where medical waste processing facilities are located and all district municipalities are directed to the processing facilities in the relevant province. The medical waste storage point in the visual represents an important part of this process and ensures that medical waste is collected and stored safely. These points minimize environmental and health risks by enabling the waste to be separated correctly and processed later. Storing medical waste in appropriate conditions is of critical importance in terms of protecting public health and reducing negative impacts on the environment. Such practices make a great contribution both in the field of health and in terms of environmental sustainability.

In line with its sustainability and environmental protection goals, Kütahya Dumlupınar University has implemented the practice of using reusable containers, cups, forks, spoons and knives instead of plastic products in the student and staff cafeteria. This change significantly reduces the amount of waste by reducing the use of single-use products (Reduce) and contributes to the more efficient use of natural resources. The preference for reusable materials demonstrates an environmentally friendly approach and helps develop recycling awareness at individual and social levels (Reuse). This practice enables both students and staff to make more conscious decisions about environmental sustainability in their daily lives and contributes to the achievement of sustainability goals across the campus by reducing the amount of waste generated in the cafeteria. Example 16 shows the images of these products used in the student and staff cafeteria.

The Zero Waste Market has been opened, and this takes our university's sustainability efforts to a higher level. Students, campus employees, and academics have the opportunity to earn points by bringing the paper, plastic, and other waste they collect to this market. Individuals who collect points for the amount of waste they collect can use these points to purchase the products they need from the Zero Waste Market. This application not only ensures that waste is recycled but also contributes to the development of environmental awareness in the community by increasing the positive impact on the environment.

[3.17] Sewage Disposal

Sewage Disposal Example
(Kütahya Dumlupınar University, Türkiye)

Sewage Disposal Example
(Kütahya Dumlupınar University, Türkiye)

Sewage Disposal Example
(Kütahya Dumlupınar University, Türkiye)

Sewage Disposal Example
(Kütahya Dumlupınar University, Türkiye)

Sewage Disposal Example
(Kütahya Dumlupınar University, Türkiye)

Sewage Disposal Example
(Kütahya Dumlupınar University, Türkiye)

At Kütahya Dumlupınar University, sewage is disposed of and recycled at municipal wastewater treatment plants by the Municipality. The DPU utilizes the Waste Management Application. The DPU utilizes the Waste Management Application, developed by the Ministry of Environment and Urbanization of the Republic of Türkiye, which aims to monitor, control, and report on all processes from waste generation to recycling or disposal.

[3.18] Planning, Implementation, Monitoring and/or Evaluation of All Programs Related to Waste Management through the Utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Waste generated by our university units is collected in recycling bins.	Integrated Environmental Information System	The visual interface allows users to easily enter data and monitor existing data in real time.	Annual	Related Unit
Implement ation	Waste generated by our university units is collected separately in recycling bins.	RFID tags for trash bins and waste management software	Installation records, waste separation reports, recycling rate reports, efficiency analyses	Annual	Related Unit
Monitoring	Monitor waste collection and recycling rates.	Waste is recorded and tracked in the Integrated Environmental Information System.	Internal and external evaluation reports	Annual	Related Unit
Evaluation	The effectiveness of the 3R program at our university is evaluated by the relevant units.	Unit reports are evaluated by the quality committee.	The visual interface allows users to easily enter data and monitor existing data in real time.	Annual	Related Unit

Waste Management Application-Integrated Environmental Information System (Kütahya Dumlupınar University, Türkiye)

Waste Management Application Data Entry
(Kütahya Dumlupınar University, Türkiye)

Zero Waste Applications and Deposit Management System Establishment Project on Campus
(Kütahya Dumlupınar University, Türkiye)

Student and Staff Meal Reservation Application to Reduce Food Waste
(Kütahya Dumlupınar University, Türkiye)

At our university's School of Foreign Languages, waste is processed through the ECBS system. Our university has begun using a digital inventory management system for laboratory consumables and chemical stocks. This system prevents excessive chemical purchases and reduces waste generation. Online information is provided for researchers and students.

Under this heading, three important applications developed using Information and Communication Technologies (ICT) for the planning, implementation, monitoring and evaluation processes of programs related to waste management are discussed in detail. These applications are designed to make waste management processes on campus more effective, to achieve sustainability goals and to ensure efficient use of resources.

The Integrated Environmental Information System is at the center of environmental data collection and analysis processes. This system allows systematic monitoring of the types, quantities and recycling rates of waste generated throughout the campus, helping administrators to create environmental policies more consciously. The interface in the image allows users to easily enter data and follow current data instantly. This system also forms the basis of education and information activities aimed at increasing environmental awareness, and ensures that waste management processes are more transparent and traceable. The data collected is used for reporting and contributes to strategic decision-making processes to achieve environmental sustainability goals.

The phone application developed for cafeteria reservations plays an important role in ensuring that students receive more organized and efficient service in the cafeteria. Through the application, users can access the daily meal menu and make reservations in advance for their preferred meals. The main purpose of this application is to reduce food waste and ensure that meals are better planned according to needs. Students reviewing the menu in advance and making reservations for the right amount of food optimizes the use of materials and resources in the cafeteria and minimizes waste. In this way, both student satisfaction increases and a sustainable campus life is contributed to.

The Zero Waste Applications and Deposit Management System Establishment Project on Campus is an important step that supports the sustainability goals adopted by our university in the field of waste management. Within the scope of the project, innovative applications are being implemented in order to strengthen recycling processes and encourage the recovery of packaging waste. The scope, goals and application areas of the project are explained in detail on the cover page. The deposit management system facilitates the recovery of used packaging and supports monitoring and evaluation processes aimed at reducing the amount of waste. The project contributes to the increase of environmental awareness and the development of social awareness by expanding zero waste applications on campus.

These three applications represent important steps to increase the effectiveness of environmental management and sustainability efforts at our university. The advantages provided by Information and Communication Technologies support our university in achieving its environmental goals by making waste management processes more transparent, traceable and effective. The development of such systems helps educational institutions adopt best practices in waste management, create a sustainable campus and build an environmentally friendly future. In this context, the improvement of waste management processes and the implementation of environmental sustainability principles become possible with the joint efforts of all campus components.

[3.19] Impact of Waste Management Programs in Supporting the Sustainable Development Goals

The university has undertaken a wide range of waste management programs that contribute significantly to the achievement of the 17 Sustainable Development Goals (SDGs). These initiatives reflect a strong institutional commitment to reducing environmental impact, promoting the circular economy, and fostering responsible consumption. Key programs include:

- Implementation of comprehensive waste segregation systems across campus, separating organic, inorganic, hazardous, recyclable, and e-waste at the source.

- Operation of composting facilities to process organic waste into fertilizer used for campus landscaping and urban farming projects.
- Establishment of recycling stations and partnerships with licensed waste vendors to process paper, plastics, glass, metals, and electronics.
- Organization of e-waste collection drives and disposal campaigns to manage electronic waste in accordance with environmental regulations.
- Campus-wide zero-waste campaigns, encouraging reduction, reuse, and recycling through awareness events, signage, and student-led initiatives.
- Ban or reduction of single-use plastics in canteens, vending machines, and university events, replacing them with reusable alternatives.
- Digitalization of administrative processes to reduce paper consumption and promote environmentally-friendly operations.
- Inclusion of waste management topics in the academic curriculum, research projects, and student theses focused on lifecycle analysis, waste-to-energy, and sustainable packaging.
- Installation of smart bins or waste monitoring systems to track collection volumes and optimize waste handling logistics.
- Collaboration with local governments, NGOs, and private sectors to strengthen regional waste governance and promote circular economy innovation.

These efforts directly support SDGs 3, 4, 6, 9, 11, 12, 13, 14, 15, and 17, and contribute indirectly to others, including:

Sustainable Development Goal 3 – Reducing health risks through safe waste management and sanitation

Waste generated within our university is collected in designated areas to prevent environmental and animal health risks and is transported to a waste processing center by the Kütahya Municipality at regular intervals.

Sustainable Development Goal 4 – Providing training to students in sustainable material management

Our university offers courses such as climate change, environmental issues, and occupational health and safety in its associate and undergraduate programs.

Sustainable Development Goal 6 – Preventing water pollution through proper waste disposal

Waste generated within our university is collected in designated areas to prevent environmental and animal health risks and is transported to a waste processing center by the Kütahya Municipality at regular intervals.

Sustainable Development Goal 9 – Encouraging innovation in waste treatment and recycling technologies

Our university's Scientific Research Projects Coordination Department has supported priority area projects to encourage research on the environment and climate change.

Sustainable Development Goal 11 – Developing sustainable campus infrastructure and communities

Some of the energy needs of some of our university buildings are met by renewable energy systems. Furthermore, electric charging stations are installed in our university parking lots to encourage the use of electric vehicles by employees and students.

Sustainable Development Goal 12 – Encouraging responsible consumption and waste reduction

The nationwide zero waste project is also being implemented within our university.

Sustainable Development Goal 13 – Reducing waste emissions and advancing climate action

Motor vehicles on our university campus are subject to periodic exhaust inspections, and their heating systems are regularly checked. Furthermore, electric charging stations are installed in our university parking lots to encourage the use of electric vehicles by employees and students.

Sustainable Development Goal 14 – Minimizing land and sea pollution from solid waste

Waste generated at our university is collected in designated areas to prevent environmental and animal health risks and is transported to a waste processing center by the Kütahya Municipality at regular intervals.

Sustainable Development Goal 15 – Protecting ecosystems through sustainable waste practices

Our university produces composted fertilizer from organic waste (pruned branches, leaves, etc.). The resulting fertilizer is intended to be used in our university's landscaping projects.

Sustainable Development Goal 17 – Establishing waste partnerships for policy and practice improvements

To support university students in becoming more active and aware of environmental issues, environmental and sustainability-themed student societies have been established at Kütahya Dumlupınar University. These societies organize new events each year to raise students' awareness of environmental issues, foster solution-oriented thinking, and provide an interactive space where they can develop projects.

Leftover food and bread from meals prepared and served in the student and staff kitchens of Kütahya Dumlupınar University's Nutrition Services Branch Directorate are recycled for use in facilities operated by the Kütahya Governorate's Association for the Protection of Stray Animals. Additionally, food items set aside from practical cooking classes held in various university units and products nearing their expiration date are used to feed stray animals. This provides a different method of utilizing food waste (Reuse) and contributes to students' love for animals and their awareness of helping living beings.

To raise environmental awareness and encourage sustainable lifestyles, various activities are held during Environment Week to raise awareness and draw attention to environmental issues. These activities not only instill environmental awareness in students but also emphasize the importance of protecting natural habitats. To this end, students, academic staff, and administrative staff organize a tree-planting event. Furthermore, within the scope of environmental protection and sustainability, recycling and reuse processes are reinforced through activities such as painting and renewing benches and garden tables on campus and aerating and cleaning garden soil.

As stated in the 2023 Greenmetric report, a sewer system is used in the Kütahya Dumlupınar University central cafeteria system to separate waste oils at their source.

[4] Water (WR)

[4.1] Water Conservation Program Implementation

Three lakes
(Kütahya Dumlupınar University, Türkiye)

Rainwater underground channels and tanks
Dark and light blue lines: Rainwater collection pipes around buildings
Green and yellow lines: Main collector lines to underground storages
Pink lines: Lake feed pipes
(Kütahya Dumlupınar University, Türkiye)

Red Icon: Main Control Center
Blue Icons: Water Wells and Water Tanks
(Kütahya Dumlupınar University, Türkiye)

	
Flood prevention and rain recycling example All our buildings have the same system. (Kütahya Dumlupınar University, Türkiye)	Transportation of recycled rainwater from underground to reservoirs (Kütahya Dumlupınar University, Türkiye)
	
One of the underground storage centers (Kütahya Dumlupınar University, Türkiye)	Tank distribution pumps and valves (Kütahya Dumlupınar University, Türkiye)
	
Pump control (Kütahya Dumlupınar University, Türkiye)	Control Panel (Kütahya Dumlupınar University, Türkiye)

Surface Water Channels, Flood Prevention, and Underground water source feeding Lake 2 and Lake 3	
	
	

University and Location	Average Rainfall (mm/hr)	Water Flow Rate (liters/hr)	Number of Reservoirs	Capacity of Reservoirs (liters)	Number of Lakes	Capacity of Lakes (liters)	Number of Recharging Pits	Capacity of Recharging Pits (liters)
Kütahya Dumlupınar University; Evliya Celebi Campus, Kütahya	55	5500	3	7500000	3	239000000	-	-

Kütahya Dumlupınar University has implemented a comprehensive water conservation program that integrates rainwater harvesting, groundwater utilization, and sustainable lake and reservoir management to enhance the ecological balance and greenery across our campus.

Reservoirs and Water Management Systems

Our campus has 3 water reservoirs with a total capacity of 7500000 liters, all equipped with ultrasonic level sensors and PLC-based control systems integrated into a SCADA monitoring network. These reservoirs collect rainwater, manage water distribution, and regulate irrigation of the campus green areas. Flow meters at the tank inlets and outlets allow us to monitor the amount of water entering and leaving the tanks, while automated alarms notify the staff of overflow conditions or tank lid openings. Chlorination and valve status are continuously monitored via the SCADA system to ensure water quality and proper operation of the distribution system.

Lakes and Recharging Pits

There are three lakes on the campus.

- Lake 1: 42341 m^2, 210000 m^3
- Lake 2: 7000 m^2, 24500 m^3
- Lake 3: 2280 m^2, 4500 m^3

All lakes are fed by rainwater, surface water, and groundwater, while also receiving discharge from thermal and other campus waters. These lakes serve multiple purposes: they act as storage reservoirs, support irrigation, and provide recreational areas for students and local residents.

Implementation and Impact

- Rainwater is collected from rooftops, paved areas, and green spaces and directed to the reservoirs and lakes.
- Ultrasonic sensors and SCADA monitoring ensure precise water management and prevent wastage.
- The irrigation system is powered by pumps controlled via PLCs to ensure that water is distributed efficiently to lawns and other green areas.
- As a result of these initiatives, the campus has transformed from a previously barren landscape into a thriving ecosystem, supporting diverse plant and animal species.
- Recreation areas around the lakes have increased soil fertility and provided habitats for local wildlife, while also offering scenic spaces for the university community and visitors.

This integrated water conservation program exemplifies the university's commitment to sustainable water management and environmental stewardship. Through continuous monitoring, advanced control systems, and careful planning, no drop of rainwater is wasted, and every available water resource contributes to sustaining the campus ecosystem.

[4.2] Water Recycling Program Implementation

University Water Recycling Main Topics

- Creating lakes with rainwater recycling and smart and efficient plant irrigation
- Geothermal water heating
- Waste water recycling

Creating lakes with rainwater recycling and smart and efficient plant irrigation

Lake 1

- Completed in 2020.
- It covers an area of 42341 m^2. It has a water volume of 210000 m3.
- Recreation areas have been created around it, which are also available to local people.
- The water flowing from the spillway discharge contributes to the irrigation of fields near the campus.
- The rainwater and drainage water outlets of the campus are connected to this lake and it is also fed by the surrounding groundwater and surface water.

Lake 2

- Completed in 2007.
- It was created with the machinery and equipment belonging to our university without any cost by evaluating the excavations on campus. It covers an area of 7000 m^2 and has a water volume of 24,500 m3.
- Recreation areas have been created around it, which are also available to local people.
- It is fed by underground and stored rainwater.
- The discharge legs of thermal water and other waters coming to the campus are also connected here.

Lake 3

- Completed in 2007.
- It was created with the machinery and equipment belonging to our university without any cost by evaluating the excavations on campus. It covers an area of 2280 m^2 and has a water volume of 4500 m3.
- Recreation areas have been created around it, which are also available to local people.
- It is fed by underground and stored rainwater.

- The discharge legs of thermal water and other waters coming to the campus are also connected here.

Description of Water Wells and Water Tanks of the Rainwater Collection System

- The system is monitored from the SCADA computer in the main center. The number of scada tags is 256.
- Tank capacities vary between 2000 and 3000 m3. The tanks are equipped with a PLC system with ethernet communication. Communication between PLCs is provided over a wireless network with Access Point devices suitable for outdoor and industrial conditions.
- From the panels in the wells, fault, running information, current drawn by the pump, well entrance door open and closed information are received. Pumps operate according to the level information from the well tanks. Tank water level controls are carried out in coordination.
- Tank levels in the warehouses are controlled by ultrasonic sensors. Ultrasonic sensors have analog output and show the warehouse height in meters on the SCADA screen. In addition to the level indicator, there is one overflow level sensor in the warehouses. The system gives an alarm when the limit height is exceeded.
- Flow meters are installed at tank inlets and outlets to the lines. The amount of water coming from the wells and the amount of water leaving the tank can be seen on the SCADA screen through these devices.
- There are systems that alarm when the tank lids are opened.
- Chlorination status is monitored on the SCADA screen by receiving analog signals from the chlorine devices to be placed in the tanks.
- The opening and closing status of the valves at points with motorized valves is managed by the PLC at the relevant point. The operation of the pumps is regulated according to the valve opening status.

Geothermal water heating

The heating system for three faculty and vocational school buildings, as well as the Olympic pool on our university campus, operates using geothermal energy—a resource that is abundant in the Kütahya region, known for its rich geothermal activity. With centuries of expertise in utilizing geothermal water, Kütahya is home to numerous historic thermal baths, reflecting a long-standing cultural and practical knowledge of geothermal resource use. In our modern system, heat is sourced from a central heat exchanger at the main geothermal facility and transferred via heat pumps and an extensive network of channels to sub-building power stations and the Olympic pool heating exchanger. Before the return water is sent to the reinjection well, it is directed to therapeutic pools at the physical therapy center and to fish breeding pools that support aquatic life in our campus lakes. This design ensures sustainable and efficient use of geothermal energy for building heating, pool heating, and ecological enhancement on campus, while reintegrating the water back into the geothermal system via the reinjection well.

Waste water recycling

Our university's wastewater treatment process exemplifies a meticulous approach to environmental sustainability and water management, ensuring that all water released meets the highest ecological standards. Wastewater collected from the campus flows through a systematic treatment sequence,

beginning at the inlet pool, where it is first directed to a grid unit. Here, a screening unit removes insoluble solid waste, preventing large debris from contaminating further stages.

The pretreated water then enters the sand and oil removal unit, where smaller particulates and oils are effectively separated, paving the way for efficient biological treatment. Next, the wastewater enters a biophosphorus unit, a critical stage for nutrient control, where it undergoes advanced biological treatment. In this unit, wastewater is passed through sequentially aerated anaerobic ponds to remove carbon, nitrogen, and phosphorus, ensuring a balanced and low-impact nutrient release.

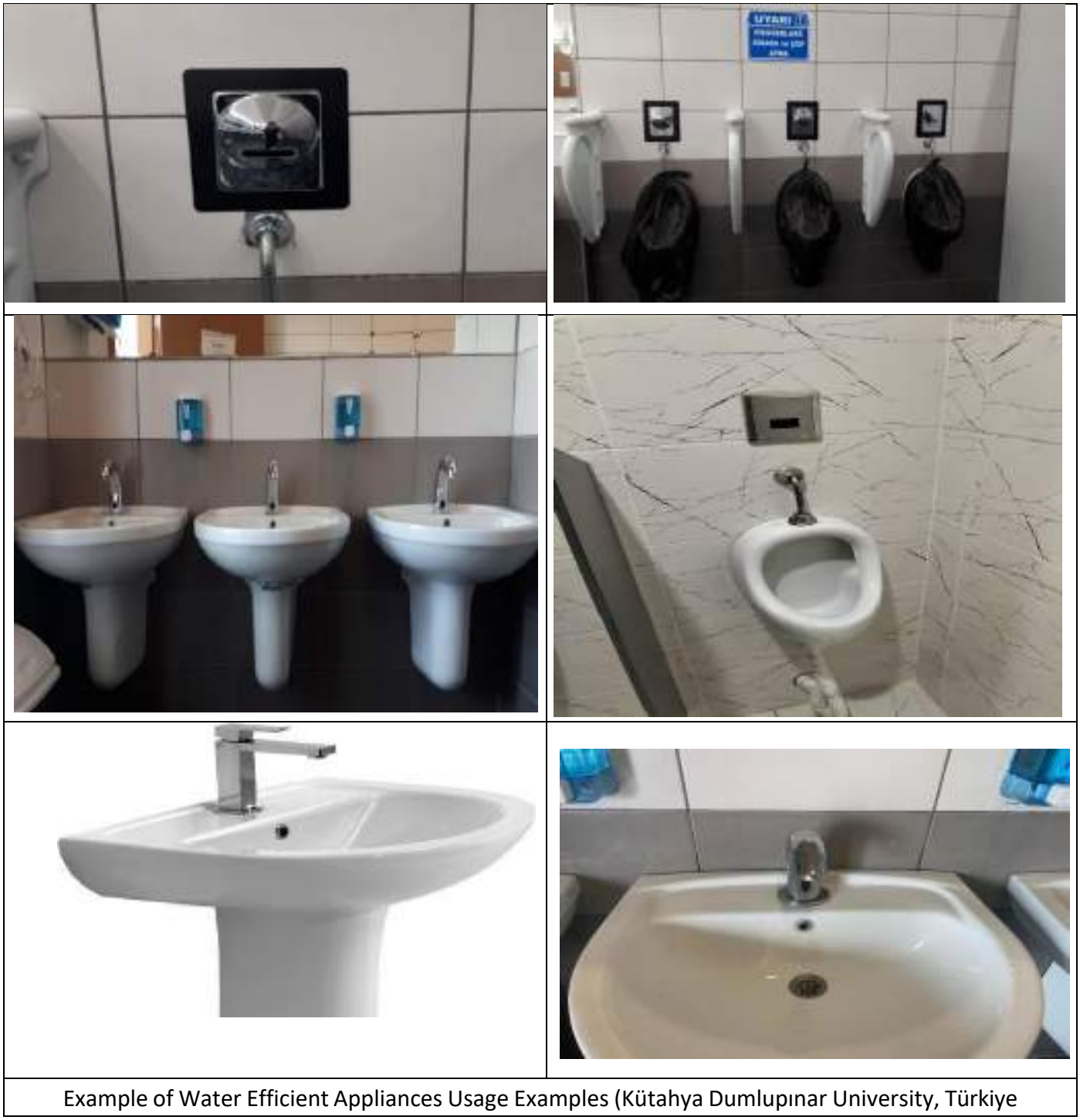
After nutrient removal, the treated water flows into the final settling pond, where it undergoes comprehensive disinfection, preparing it for safe release into the Porsuk River. Meanwhile, biological sludge generated during the process is transported to dewatering, thickening, and anaerobic sludge digestion tanks. This sludge treatment stage not only minimizes waste but also generates biogas, which is stored in biogas tanks, demonstrating our university's commitment to resource recovery and energy efficiency.

This multi-stage system, combining physical, chemical, and biological treatments, reflects our dedication to maintaining a clean and sustainable campus environment. Through rigorous wastewater management, we contribute to the health of local ecosystems and exemplify our university's commitment to environmental stewardship.

Our university prioritizes the quality and safety of water on campus through comprehensive water softening and purification processes. To ensure that mains water meets high standards for campus use, we employ an advanced water softening system that effectively reduces hardness, protecting infrastructure and enhancing water quality for daily use. This process removes excess minerals such as calcium and magnesium, reducing scale buildup in pipes, appliances, and heating systems, thereby improving efficiency and sustainability across campus facilities. For drinking water, specialized purification devices are strategically placed around campus, providing safe, high- quality drinking water to students, faculty, and staff. These purification systems utilize multi-stage filtration processes, including activated carbon and reverse osmosis, to remove potential contaminants, chlorine, and residual minerals, delivering water that meets stringent health and taste standards. This dual approach—water softening for general use and dedicated purification for drinking water—demonstrates our university's commitment to ensuring accessible, safe, and high-quality water resources, reflecting our dedication to the health and well-being of our campus community.

Our university is proud to showcase our comprehensive water recycling initiatives, which have resulted in a remarkable water recycling rate exceeding 50%. Key strategies include the creation of lakes through rainwater recycling and the implementation of smart, efficient irrigation practices for plant care, as well as utilizing geothermal water heating and wastewater recycling. These innovative programs underscore our commitment to sustainability and responsible resource management. Consequently, we confidently expect the highest score under the UI GreenMetric [4.2] Water Recycling Program Implementation category, recognizing our significant contributions to environmental stewardship.

[4.3] Water Efficient Appliances Usage



Example of Water Efficient Appliances Usage Examples (Kütahya Dumlupınar University, Türkiye

Our campus, serving a population of approximately 51,173 students and staff, has prioritized water efficiency through the deployment of advanced water-saving technologies across all facilities. These installations include:

Sensor-Activated Faucets: Installed in handwashing areas, sensor-activated taps dispense water only when hands are detected, significantly reducing water waste. With 1,200 handwashing stations across the campus, 900 of these are equipped with sensor-activated faucets, reducing water waste by only activating

when hands are detected. This represents 75% of all faucets, providing substantial water conservation across high-use areas.

Low-Flow Faucet Aerators: These are fitted to reduce the flow rate of faucets while maintaining effective water pressure, conserving water without compromising usability. Out of a total of 1,200 faucets, 100% have been equipped with low-flow aerators to ensure reduced water flow without sacrificing pressure, maintaining user satisfaction and maximizing water efficiency.

Dual-Flush Toilets: Our restroom facilities are equipped with dual-flush systems, allowing users to select a lower water volume for liquid waste, saving substantial amounts of water with every flush. The campus contains approximately 2,000 toilet units, of which 1,500 utilize dual-flush mechanisms, allowing users to choose a low- flow flush option when appropriate. This represents 75% of the total toilet facilities, achieving notable water savings.

Additionally, wastewater from our facilities is directed to the local municipal wastewater treatment plant, where it undergoes treatment and is safely returned to the environment. This closed-loop system ensures that wastewater is responsibly managed, contributing to environmental preservation and resource sustainability.

The pretreated water then enters the sand and oil removal unit, where smaller particulates and oils are effectively separated, paving the way for efficient biological treatment. Next, the wastewater enters a biophosphorus unit, a critical stage for nutrient control, where it undergoes advanced biological treatment. In this unit, wastewater is passed through sequentially aerated anaerobic ponds to remove carbon, nitrogen, and phosphorus, ensuring a balanced and low-impact nutrient release.

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To further promote water conservation and sustainability awareness, the university organizes informational meetings on World Water Day. These events focus on educating the campus community about water efficiency practices and the importance of sustainable water management, aligning with the institution's commitment to environmental responsibility.

[4.4] Consumption of Treated Water

According to Article 15 (d) and (e) of the Municipality Law No. 5393, establishing, having established, operating and having operated the necessary facilities to process domestic wastewater within the municipal boundaries in Türkiye belongs only to the local authorized municipality. Even state universities depend on the local municipality to which their campuses are connected for wastewater treatment.

The lakes of Kütahya Dumlupınar University were created with the recycling of rainwater and the proper management of underground spring waters. In order to ensure the continuity of our lakes and the life it carries, the use of lake waters for irrigation purposes is controlled so that the water does not fall below a certain level. Our second option for irrigation of green areas is the use of groundwater without usable geothermal energy.

These waters account for 18% of the total campus water consumption. Mains water use within the campus boundaries is met from Kütahya mains water.

Kütahya Municipality meets most of the water needs of Kütahya province from the Porsuk Dam, which is fed by the Porsuk River. Kütahya Dumlupınar University is connected to Kütahya Waste Water Treatment Plant. This facility was built on the banks of the Porsuk Stream to ensure sustainable water management in Kütahya. This facility, whose specifications are given above, recycles wastewater not only from our campus but also from the city of Kütahya and sends it to the Porsuk Dam for further use. Thanks to the facility, the technical details of which are given above, almost all of the network water of our campus is used by reintroducing recycled waste water back into the network.

Our university prioritizes the quality and safety of water on campus through comprehensive water softening and purification processes. To ensure that mains water meets high standards for campus use, we employ an advanced water softening system that effectively reduces hardness, protecting infrastructure and enhancing water quality for daily use. This process removes excess minerals such as calcium and magnesium, reducing scale buildup in pipes, appliances, and heating systems, thereby improving efficiency and sustainability across campus facilities. For drinking water, specialized purification devices are strategically placed around campus, providing safe, high- quality drinking water to students, faculty, and staff. These purification systems utilize multi-stage filtration processes, including activated carbon and reverse osmosis, to remove potential contaminants, chlorine, and residual minerals, delivering water that meets stringent health and taste standards. This dual approach—water softening for general use and dedicated purification for drinking water—demonstrates our university’s commitment to ensuring accessible, safe, and high-quality water resources, reflecting our dedication to the health and well-being of our campus community.

Thus, it is monitored in a controllable and provable way that approximately 82% of our campus' water needs are met with treated water. For this reason, we expect full points for [4.4] Utilization of treated wastewater.

[4.5] Water Pollution Control in Campus Area

Kütahya Dumlupınar University has implemented a comprehensive policy to prevent and reduce pollution in campus ponds, which are safeguarded along with the surrounding forest areas. The campus contains

three ponds, each supported by a system of lower and upper weirs that facilitate water discharge and aeration, thereby enhancing water quality. To further maintain and improve the aquatic ecosystem, ongoing monitoring of oxygen (O_2) and nitrate (NO_3) levels is conducted, along with periodic evaluations of fish populations. Measures are in place to remove invasive species and cultivate preferred species, in collaboration with the General Directorate of Fisheries. On December 5, 2018, a protocol was established with the Kütahya Provincial Directorate of Agriculture and Forestry and the Eğirdir Fisheries Research Institute. Under this agreement, regular assessments and conservation efforts are carried out by institute experts to support long-term habitat health in these ponds

Our campus has established a comprehensive water pollution control program, ensuring a high standard of water quality and environmental stewardship across all water bodies. We have implemented rainwater collection channels and primary reservoirs, equipped with automatic chlorination and monitoring systems, which provide continuous, real -time control over water quality. These automated processes are supported by external quality checks conducted by certified laboratories. In addition, our university has formalized a protocol with Kütahya Dumlupınar University and the Provincial Directorate of Agriculture and Forestry to monitor pollution levels and protect the natural. habitat around our lakes and water storage facilities are subject to regular and unannounced chlorine level checks by the Provincial Directorate of Health, further ensuring water quality through random, independent assessments. The results of these inspections consistently demonstrate compliance with high water quality standards.

Our university lakes represent exemplary freshwater ecosystems, rigorously maintained to support biodiversity and reflect our commitment to environmental stewardship. Extensive monitoring and pollution control efforts ensure that the water quality is high enough to sustain a wide range of aquatic and terrestrial life forms. The lake habitats support various species, including fish, amphibians such as frogs, reptiles like turtles and occasional water snakes, and a diverse array of birds—indicators of a healthy and balanced ecosystem. Regular sightings of lizards and migratory birds around the lakes further demonstrate the pristine conditions we uphold.

In addition to ecological preservation, we prioritize community engagement by organizing inclusive fishing events for individuals with disabilities and their families, promoting both environmental appreciation and recreational access. Our university’s dedication to environmental excellence is mirrored in these thriving habitats, which are preserved and enhanced through systematic water quality assessments and sustainable management practices.

[4.6] Planning, Implementation, Monitoring and/or Evaluation of All Programs Related to Water Management through the Utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Departme nt
Planning	Water management system planning phase	Hydrolic system analytics software	Tender technical specifications, activity plans of the department of construction works	Jan 2024 -April 2024	Department Of Construction Works, Directorate of Information Technologies
Implementation	Implementation of the water management infrastructure	SCADA and PLC systems	Installation logs, activity plans of the department of construction works	May 2024	Department Of Construction Works

Monitoring	Inclusion of water consumption control software in the energy control software platform	Real-time monitoring software	Software screenshots	After Apr 2025	Department Of Construction Works, Directorate of Information Technologies
Evaluation	Assess effectiveness of Automation of underground storages and transmission lines	Data analysis tools, feedback systems	Program evaluation reports, activity plans of the department of construction works	Permanently	Department Of Construction Works, Directorate of Information Technologies

Red Icon: Main Control Center
Blue Icons: Water Wells and Water Tanks

Automation of underground storages and transmission lines

Planning

The water management system planning phase, completed in the first quarter of 2024, focused on establishing a comprehensive rainwater collection and distribution network with automated control features. In this stage, all system components, including underground water tanks, transmission lines, and required automation technologies, were carefully selected to optimize resource efficiency and ensure seamless operation. The use of SCADA and PLC systems was planned for real-time monitoring and control, allowing 256 SCADA tags to manage data collection and automation. Tank capacities, ranging from 2000 to 3000 m^3, were determined to meet campus water needs, and the installation of ultrasonic sensors, flow meters, and motorized valves was designed to enable detailed tracking of water levels, flow rates, and system performance. Communication between components was set to be achieved through a wireless network with industrial-grade Access Points for reliability in outdoor conditions.

Implementation

Implementation of the water management infrastructure commenced in the last quarter of 2024 and remains ongoing. Water tanks and wells have been equipped with PLC systems that support Ethernet communication, facilitating coordinated monitoring and control through SCADA. Underground tank levels are tracked with ultrasonic sensors, which provide continuous data on water height, displayed in real time

on the SCADA interface. Flow meters installed at tank inlets and outlets monitor the quantity of water moving in and out, enabling precise flow control. Chlorination monitoring capabilities are integrated into the SCADA system, receiving analog signals from chlorine sensors to ensure water quality. Motorized valves connected to the PLC regulate pump operations based on valve positions, while alarms notify operators of tank lid openings and potential overflow events, providing enhanced security and operational stability. While most infrastructure is in place, final integration with the water control software is scheduled for completion in the second quarter of 2025.

Monitoring and Evaluation

The SCADA-based monitoring and evaluation phase will become fully operational by the second quarter of 2025, enabling continuous data collection, system diagnostics, and automated control of water levels and flow rates across all tanks and wells. Tank levels will be displayed in meters, with ultrasonic sensors providing real-time level data and overflow sensors triggering alarms when limit levels are surpassed. Flow meters at tank inlets and outlets will display water quantities on the SCADA screen, ensuring transparent tracking of resource utilization. Chlorination levels will be monitored via SCADA to uphold water safety standards, and motorized valve operations will be coordinated through PLCs to optimize pump usage. By centralizing all data on a SCADA interface, operators can efficiently oversee water distribution and promptly address any malfunctions or irregularities. Regular evaluations of system performance will be conducted to refine operations and ensure sustainability targets are consistently met.

[4.7] Impact of Water Management Programs in Supporting the Sustainable Development Goals

The university has undertaken a wide range of water management programs that contribute significantly to the achievement of the 17 Sustainable Development Goals (SDGs). These initiatives reflect a strong institutional commitment to water conservation, sustainable usage, and climate resilience. Key programs include:

- Installation of rainwater harvesting systems on rooftops and open areas to collect and store rainwater for non-potable uses such as irrigation and toilet flushing.
- Construction of infiltration wells to reduce surface runoff and improve groundwater recharge.
- Use of water-saving fixtures across campus buildings to minimize daily water consumption.
- Installation of water meters and digital monitoring systems to track water usage and detect leaks in real time.
- Integration of native and drought-tolerant plant species in landscaping to reduce irrigation demands.
- Design of permeable pavements to reduce runoff and enhance natural absorption.
- Awareness campaigns and workshops promoting water conservation habits among students, staff, and faculty.
- Collaborative water management research and policy development in partnership with public agencies, NGOs, and academic institutions.

These efforts directly support SDGs 3, 4, 6, 9, 11, 12, 13, 14, 15, and 17 and contribute indirectly to others, including:

- SDG 3 – Supporting public health through access to clean and safe water

- SDG 4 – Providing learning environments with reliable and sustainable water infrastructure
- SDG 6 – Ensuring availability and sustainable management of water and sanitation for all
- SDG 9 – Implementing innovative water management infrastructure
- SDG 11 – Enhancing urban resilience through sustainable water practices
- SDG 12 – Encouraging responsible consumption of natural resources
- SDG 13 – Mitigating climate impact through adaptive water strategies
- SDG 14 – Preventing water pollution that impacts aquatic ecosystems
- SDG 15 – Protecting terrestrial ecosystems through integrated water management
- SDG 17 – Strengthening water-related partnerships for sustainable development

Kütahya Dumlupınar University (DPU) has established water management strategy that aligns directly with the United Nations Sustainable Development Goals (SDGs). Through the integration of conservation, recycling, pollution control, advanced monitoring technologies, and community-based engagement, the university has transformed its campus into a living laboratory of sustainable water practices. This effort not only addresses immediate institutional needs but also reflects a broader commitment to environmental responsibility, climate resilience, and intergenerational sustainability.

At our university, rainwater is collected through an underground gallery network and directed to on-campus lakes. These lakes are primarily fed by the rainwater gathered via this gallery system; however, the collected water is not currently used for irrigation purposes. The galleries also help slow down the flow of rainwater, supporting more efficient collection and infiltration.

To promote water conservation and reduce irrigation demand, drought-resistant plant species such as lavender (Lavandula), firethorn (Pyracantha), and black pine (Pinus nigra) are widely planted across campus green areas. Dedicated lavender gardens have been established in several locations, including next to the Rectorate building, near the third main entrance, and behind the Faculty of Economics.

Efficient irrigation techniques, including drip and sprinkler systems, are employed across the campus landscape. Moreover, permeable pavement systems are applied in parking lots and pedestrian pathways to enhance natural water infiltration and reduce surface runoff.

The planned Tile Research Center Building has been designed in accordance with water efficiency principles, and includes a rainwater collection reservoir as part of its sustainable infrastructure strategy.

The campus is equipped with ultrasonic smart water meters that allow remote monitoring. In addition, automation systems are installed in water production wells and storage tanks, enabling real-time tracking of water production and consumption. Any leaks or excessive water usage can be detected by comparing the differences between production and consumption volumes.

In cooperation with Kütahya Municipality, the university channels wastewater to the Kütahya Wastewater Treatment Center, which processes 68,000 m^3/day. The multi-stage treatment includes screening, sand/oil removal, biological phosphorus and carbon removal, anaerobic ponds, and final disinfection before safe release into the Porsuk River.

DPU's three campus lakes are not only water reservoirs but also protected ecological habitats. A protocol signed with the Provincial Directorate of Agriculture and Forestry ensures systematic monitoring of

oxygen and nitrate levels, removal of invasive fish species, and improvement of native aquatic populations.

Moreover, the Provincial Health Directorate regularly conducts chlorine measurements from different campus water points, guaranteeing compliance with health standards. Thanks to these measures, lakes host rich biodiversity, including amphibians, reptiles, birds, and fish. Such balanced ecosystems serve as indicators of healthy water management and contribute to SDG 14 (Life Below Water) and SDG 15 (Life on Land).

One of the most innovative aspects of DPU's program is the integration of SCADA and PLC systems in water monitoring and management.

Kütahya Dumlupınar University emphasizes social responsibility and awareness-building:

- World Water Day events are organized annually, highlighting the importance of conservation among students and staff.
- Inclusive fishing activities for individuals with disabilities and their families combine social inclusion with environmental education.
- Public recreation areas around lakes are open to the community, strengthening the link between campus sustainability and local well-being.

Through these activities, the university demonstrates that sustainability is not only a technical matter but also a cultural and educational mission. The university has implemented a comprehensive set of water management initiatives that make a significant contribution to the achievement of the United Nations Sustainable Development Goals (SDGs). These initiatives reflect an institutional commitment to water conservation, sustainable consumption, and climate resilience, integrating both infrastructural measures and behavioral change strategies.

Our university is preparing to apply for UI GreenMetric World University Rankings, and these initiatives demonstrate our strong commitment to sustainable water management and eco-friendly campus development.

[5] Transportation (TR)

[5.1] Number of Cars Actively Used and Managed by University

Kütahya Dumlupınar University actively manages 45 cars that are used for official university operations, including administrative, academic, and logistical purposes.

[5.2] Number of Cars Entering the University Daily

An average of 476 cars enter the university campus daily, including vehicles belonging to staff, students, visitors, and service providers.

[5.3] Number of Motorcycles Entering the University Daily

An average of 25 motorcycles enter the university campus daily, representing vehicles used by students, staff, and delivery services.

[5.4] The Total Number of Vehicles (Cars and Motorcycles with Combustion Engines) Divided by the Total Campus Population

The total number of vehicles divided by the total campus population in our university is less than 0.045.

[5.5] Shuttle Service

University staff are very well served by the university-run shuttle bus from the campus to the city center and from the city center to the campus.

Shuttle service is provided by the our university, regular, and free. Electric bus service also started in 2023.

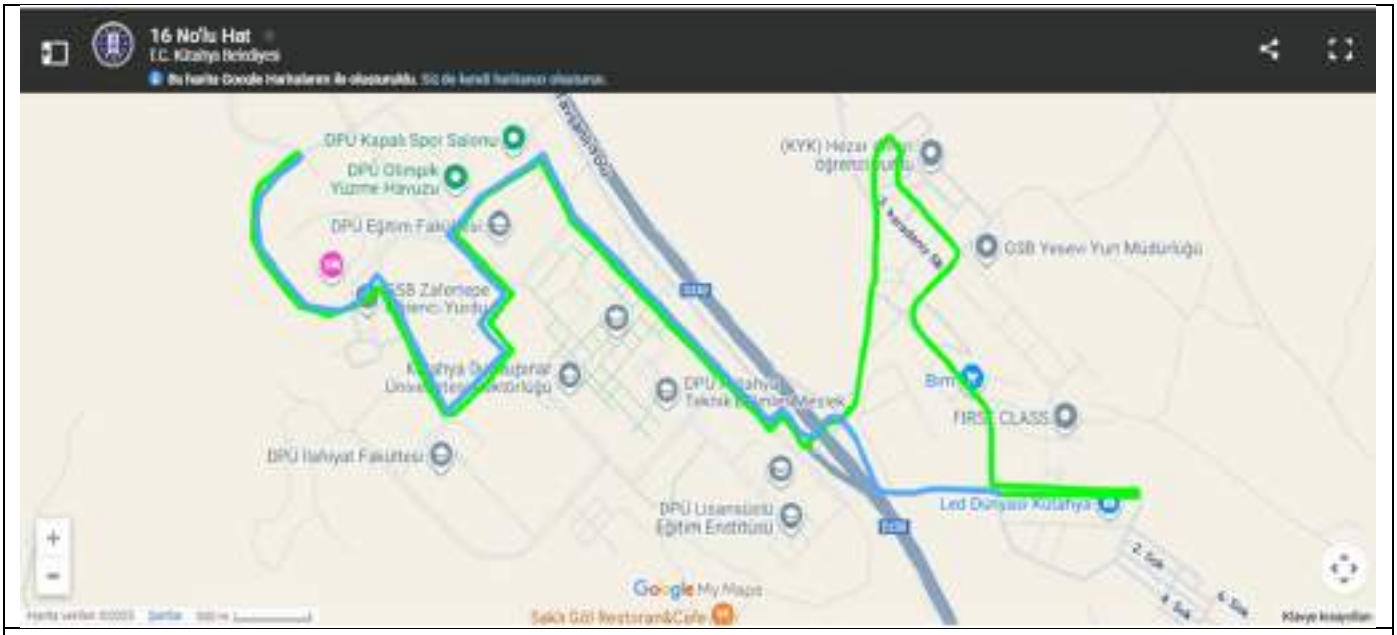
Example of Shuttle Vehicles (Kütahya Dumlupınar University, TÜRKİYE)

ELECTRIC BUS Example of Shuttle Vehicles (Kütahya Dumlupınar University, TÜRKİYE)

Example of Shuttle Vehicles (Kütahya Dumlupınar University, TÜRKİYE)

KÜTAHYA DUMLUPINAR ÜNİVERSITY SHUTTLE HOURS			
TIME	ARRIVAL TIME		DEPARTURE TIME
ADMINISTRATIVE PERSONNEL SHUTTLE VEHICLE	08:30		17:30
SHUTTLE BUS	09:00		11:00
SECURITY PERSONNEL SHUTTLE VEHICLE	07:45		15:15
	15:15		23:15
	23:15		07:45
CLEANING STUFF SHUTTLE VEHICLE	07:45		17:45
ELECTRIC BUS DEPARTURE TIME	MID-WEEK	SATURDAY	SUNDAY
	07:25	07:25	07:25
	08:55	08:55	08:55
	10:25	10:25	10:25
	11:55	11:55	11:55
	13:25	13:25	13:25
	14:55	14:55	14:55
	16:25	16:25	16:25
	17:10	17:55	17:55
	17:55	19:25	19:25
	19:25	20:55	20:55

Example of Shuttle Services – Bus Timetable (Kütahya Dumlupınar University, TÜRKİYE)



Campus Shuttle Service (Kütahya Dumlupınar University, Türkiye)

[5.6] Number of Shuttles Operated in University

Kütahya Dumlupınar University operates **19 shuttle** vehicles that provide regular transportation services within and between campus areas for students and staff.

[5.7] Average Number of Passengers of Each Shuttle

Each shuttle operated by Kütahya Dumlupınar University carries an average of **35 passengers**, serving students and staff commuting between different campus locations.

[5.8] Total Trips of Shuttle Services Each Day

The university's shuttle services make a total of **2** trips per day, providing scheduled transportation between different campuses and main facilities for students and staff.

[5.9] Zero Emission Vehicles (ZEV) Policy on Campus

<table>
<tr><td>  </td><td>  </td></tr>
<tr><td>Example of Campus Bikes
(Dumlupınar University, Türkiye)</td><td>Case Zero Emission Electric Bicycle
(Dumlupınar University, Türkiye)</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td colspan="2">DPU students produced solar-powered cars (Kütahya Dumlupınar University, Türkiye)</td></tr>
</table>

	
Dpu Duscart Fourth In Türkiye In Efficiency Challenge	Mobile Vehicle (BAP supported)
	
ELECTRIC BUS Example of Shuttle Vehicles (Kütahya Dumlupınar University, TÜRKİYE)	Electric Vehicle Charging Station (Kütahya Dumlupınar University, TÜRKİYE)
	
Electric Vehicle Charging Station (Kütahya Dumlupınar University, TÜRKİYE)	Duscart Electromobile and Duscart Autonomous Vehicle (Kütahya Dumlupınar University, TÜRKİYE)

Electric Scooter
(Kütahya Dumlupınar University, Türkiye)

Kütahya Dumlupınar University owns bicycles and electric bicycles, and offers its bicycles and electric bicycles to the use of its staff and students in order to encourage the use of zero-emission vehicles and does not charge any fee as a usage fee. It also supports students' solar-powered car construction work as part of its zero-emission vehicle policy.

In 2023, two electric buses started service.

Manufacturing Engineering students of Kütahya Dumlupınar University (DPÜ) Simav Technology Faculty produced a solar-powered car. It is stated that the vehicle can travel 40 kilometers with 2 hours of electricity. Students are Kenan Güner and Can Özdilek.

Dumlupınar University DUSCART Electromobile Team achieved a great success as the 4th in the electromobile category of the 2020 Alternative Energy Car Race organized by TÜBİTAK, thanks to the domestic electric motor it produced. Participating in the event held at Kocaeli Körfez Race Track, the DPÜ DUSCART team used engine, battery management system, built-in charging unit and vehicle control system and battery packaging from auxiliary components, which are among the four mandatory domestic product development conditions that TÜBİTAK demands from participating universities. These parts have been successfully used in the electric vehicle by producing completely with domestic parts in the University's Electrical-Electronics Engineering and Mechanical Engineering laboratories.

In 2024, an electric charging station was put into operation.

The use of electric scooters has become widespread.

The Duscart Electromobile and Duscart Autonomous Vehicle Teams successfully represented our University with two separate vehicles in the Efficiency Challenge Electric Vehicle competition held at the TÜBİTAK Marmara Research Center in August 2024, hosted by TÜBİTAK RUTE, and in the Robotaxi Passenger Autonomous Vehicle competition held at Bilişim Vadisi in collaboration with TÜBİTAK. In these two competitions, which were organized within the scope of TEKNOFEST and were among the most challenging categories this year in terms of technical capacity, our multidisciplinary teams won second place in the Robotaxi Passenger Autonomous Vehicle Competition - Original Vehicle Category and the Visual Design Award in the Efficiency Challenge Electric Vehicle Competition thanks to their extraordinary talents.

[5.10] Average Number of Zero Emission Vehicles (e.g., Bicycles, Canoes, Snowboards, Electric Cars, etc.) on Campus per Day

An average of **217 zero-emission vehicles**, including bicycles and electric vehicles, are used on the Kütahya Dumlupınar University campus each day, supporting environmentally friendly and sustainable transportation practices.

[5.11] The Total Number of Zero Emission Vehicles (ZEV) Divided by Total Campus Population

The ratio of zero-emission vehicles to the total campus population is 0.0045.

[5.12] Total Ground Parking Area

The total ground parking area at Kütahya Dumlupınar University is **53666 m²**, providing sufficient space for vehicles belonging to students, staff, and visitors across the campus.

[5.13] Ratio of Parking Area to Total Campus Area

Total main campus area: 7866913.92 m^2

Total parking area = 53665.46 m^2

Parking area to total campus area

Formula: ((5.12/1.5) x 100%) =((53665.46 /7866913.92) x 100%) = 0.6

0.6% < 1%

Ratio of Parking Area to Total Campus Area (Kütahya Dumlupınar University , Türkiye)

Ratio of Parking Area to Total Campus Area (Kütahya Dumlupınar University , Türkiye)

[5.14] Program to Limit or Decrease the Parking Area on Campus for the Last 3 Years

1. Open with rental bikes Campus (189 bikes available).
2. A car sharing group designed to encourage passengers to adopt healthy and sustainable transportation options has been established.
3. The parking lot of the Faculty of Engineering has been rearranged and vehicle access has been restricted.
4. The use of electric scooters has become widespread.

Kütahya Dumlupınar University campus area, a 10-30% reduction in parking lot usage has been achieved.

1. Bicycle Rental Application (Kütahya Dumlupınar University, Türkiye)

2. Vehicle Sharing Group (Kütahya Dumlupınar University, Türkiye)

3. Parking Area Reduction Program (Kütahya Dumlupınar University, Faculty of Engineering, Türkiye)

4. Electric Scooter
(Kütahya Dumlupınar University, Türkiye)

[5.15] Number of Initiatives to Decrease Private Vehicles on Campus

Kütahya Dumlupınar University offers free bus service, bicycle service, scooter service, zero-emission vehicle use, electric bus service, UTV (UTV), and ATV service, and encourages road sharing to limit or reduce private vehicle use on campus. Seven transportation programs are provided by the university to limit or reduce private vehicle use.

1. Free staff shuttles on campus
2. Shuttle service on campus
3. Free bicycle rental on campus
4. Scooter use on campus
5. UTV and ATV, Zero-Emission Electric Bicycles on campus
6. DPÜ Road Sharing Application
7. Zero-Emission Electric Bus

1. Personnel Services (Kütahya Dumlupınar University, Türkiye)

2. On-campus shuttle service (Kütahya Dumlupınar University, Türkiye)

3. Opportunity to Use Bicycles on Campus (Kütahya Dumlupınar University, Türkiye)

Bicycle Paths and Parking Areas
(Kütahya Dumlupınar University, Türkiye)

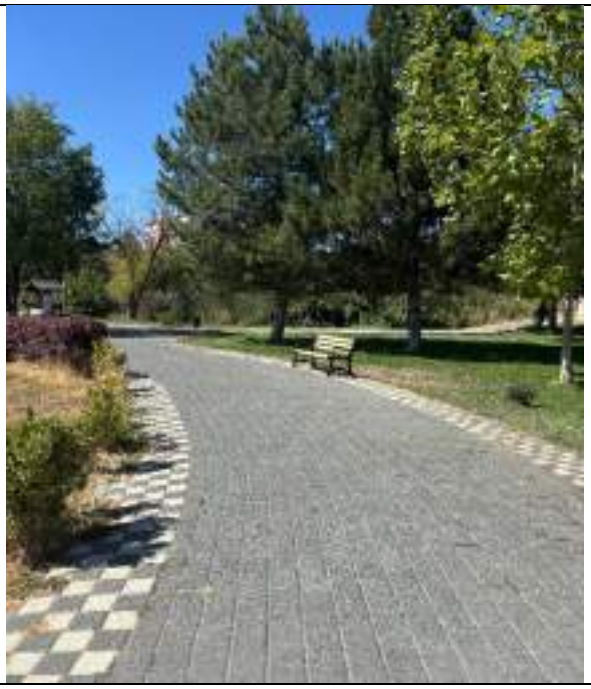
4. Opportunity to use scooters on campus (Kütahya Dumlupınar University, Türkiye)

5. Opportunity to use electric bicycles, ATVs and UTVs on campus (Kütahya Dumlupınar University, Türkiye)

6. DPÜ Road Sharing Application Example (Kütahya Dumlupınar University, Türkiye)

7. Electric Bus (Kütahya Dumlupınar University, Türkiye)

[5.16] Pedestrian Path on Campus



Pedestrian road example
(Kütahya Dumlupınar University)

Pedestrian road example
(Kütahya Dumlupınar University)

Bike path example
(Kütahya Dumlupınar University)

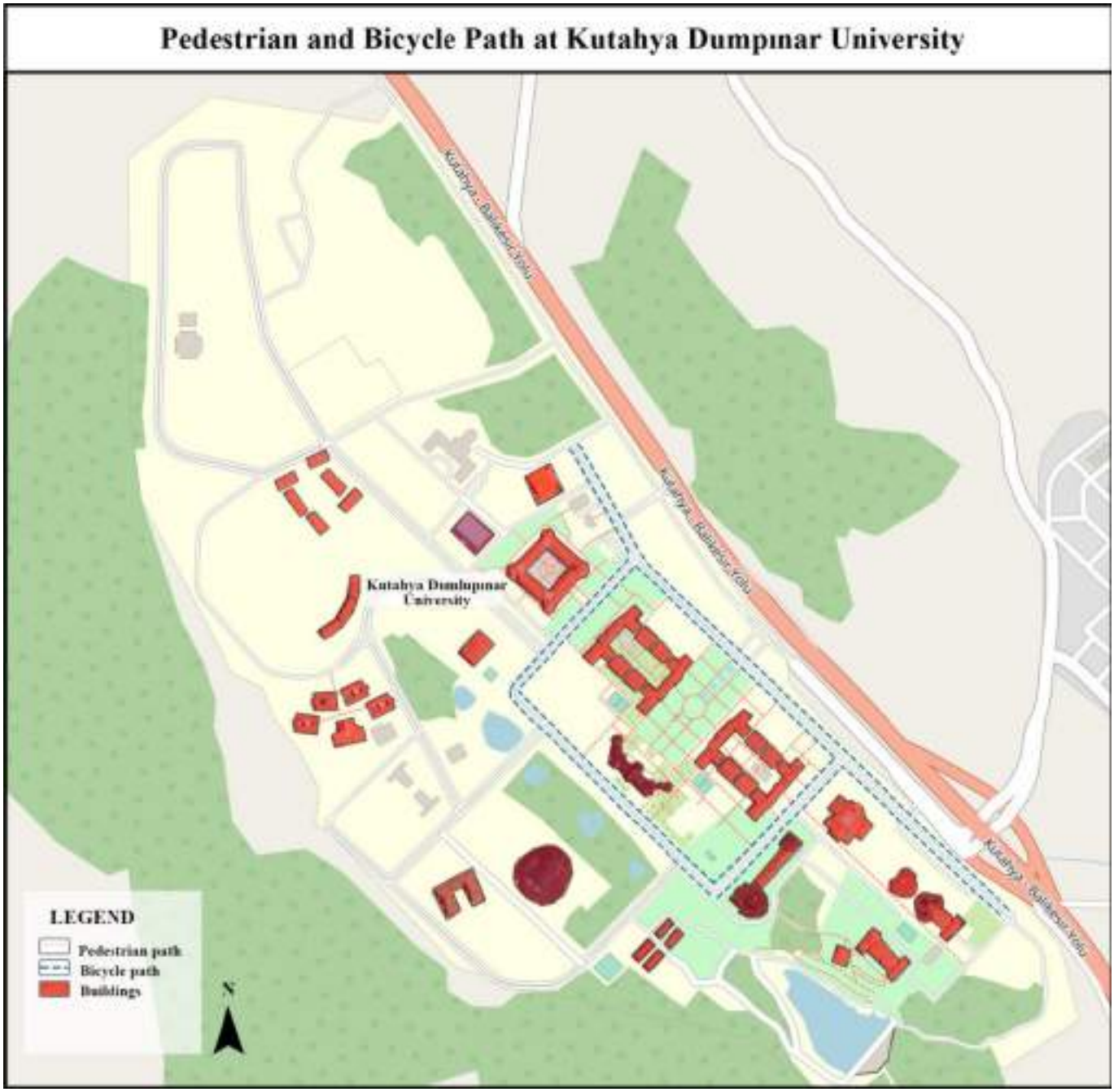
Ramps and guidance blocks suitable for physically disabled pedestrians
(Kütahya Dumlupınar University)

Ramps and guidance blocks suitable for physically disabled pedestrians (Kütahya Dumlupınar University)

Direction blocks suitable for physically disabled pedestrians (Kütahya Dumlupınar University)

Street lamp for pedestrian in night (Kütahya Dumlupınar University)

Street lamp for pedestrian in night (Kütahya Dumlupınar University)



There are pedestrian paths equipped with disability-friendly features on our university campus. Parks and pedestrian paths on campus are arranged in a way that can be used by the disabled. On our campus, which is illuminated for pedestrians at night, there is a dividing strip between the vehicle road and the pedestrian road, and there are ramps and tangible walking surfaces designed for the use of physically disabled pedestrians.

1. Park and pedestrian road are also in order in the campus plan.
2. There is a separating lane between the vehicle road and the pedestrian road.
3. There are lights for pedestrians at night.
4. There are ramps and guiding blocks designed for physically disabled pedestrians.

[5.17] Approximate Daily Travel Distance of a Vehicle Inside Campus Only

Each vehicle traveling within the Kütahya Dumlupınar University campus covers an average distance of approximately **2.57 km** per day, based on internal campus mobility and transportation patterns.

[5.18] Planning, Implementation, Monitoring and/or Evaluation of All Programs Related to Transportation through the Utilization of Information and Communication Technology (ICT)

Scene	Events/Programs	IT Usage	Evidence	Timeline	Responsible Team/Department
Planning	Service routes are planned by evaluating transportation needs.	EBYS	Needs assessment reports, route plans	The year is 2024	Department of Information Technologies
Implementation	Distribution of utility services	EBYS	Service launch reports, application usage data	March 2024 - April 2024	Department of Administrative and Financial Affairs
Monitoring	Service usage and vehicles are tracked, routes are optimized	Real-time monitoring software	Usage analysis, optimization reports	It continues	Department of Administrative and Financial Affairs
Evaluation	Evaluation of service efficiency	Data analysis tools, user feedback surveys	Productivity reports, survey results	Annual	Department of Administrative and Financial Affairs

Planning

Efficient shuttle routes are planned to assess and meet the transportation needs of the campus community. Transportation planning is conducted by analyzing data on campus traffic, student and staff schedules, and the most appropriate shuttle routes. Allocation, distribution, and control efforts, as well as vehicle request forms, are conducted by the Information Technologies Department.

Implementation

Shuttles are distributed according to planned routes. Vehicle task orders are prepared by the Administrative and Financial Affairs Department.

Monitoring

Service use of follow-up get it and use data according to Optimize routes. Service their positions And traveller their numbers to watch for real timed monitoring software use .

Evaluation

Data analysis tools will be used to assess the efficiency and effectiveness of the service, evaluate performance metrics, and collect user feedback through surveys. Surveys should be conducted by the Administrative and Financial Affairs Department, and the Quality Coordination Office should be contacted for comments.

[5.19] Impact of Transportation Programs in Supporting the Sustainable Development Goals

Kütahya Dumlupınar University carries out various transportation programs that significantly contribute to the achievement of the Sustainable Development Goals (SDGs). Explanations regarding the projects listed and evidenced above are presented below:

Development of integrated pedestrian paths and dedicated bicycle lanes across the campus to promote non-motorized transportation (SDG 3)

Dedicated bicycle lanes have been created to encourage the use of bicycles as a sustainable mode of transportation, reduce vehicle emissions, and support an active, eco-friendly lifestyle.

Operation of low-emission campus shuttle buses, including electric or hybrid vehicles, to reduce dependence on private cars (SDG 11)

To promote sustainable transportation, green transportation incentives are offered to students and staff who prefer low-carbon alternatives such as electric vehicles, bicycles, or public transport.

Installation of electric vehicle (EV) charging stations to support the transition to cleaner transportation alternatives (SDG 11)

The establishment of multiple EV charging stations across the campus encourages the use of electric vehicles and supports the reduction of emissions from gasoline-powered cars.

Designation of vehicle-free and restricted-access areas within the campus to minimize traffic congestion and air pollution (SDG 3)

Certain areas on campus are designated as restricted to motorized vehicles, thereby limiting traffic risks and supporting emission reduction.

Provision of bicycle-sharing programs and supportive infrastructure (parking spaces, lockers, repair stations) to enhance cycling convenience (SDG 3 and SDG 7)

To encourage cycling as a sustainable form of transportation, bicycle parking areas are provided within vehicle parking lots.

Implementation of vehicle restriction policies, including license plate control or limited parking permits for students and staff (SDG 9 and SDG 17)

Kütahya Dumlupınar University has introduced an Automatic Vehicle Recognition System (ATS) to regulate traffic within the campus and reduce greenhouse gas emissions. This system enables monitoring and controlling of vehicles entering and leaving the university.

Integration with public transportation systems, including campus bus terminals or last-mile shuttle services, to enhance accessibility (SDG 4)

In cooperation with the local municipality, an on-campus ring shuttle service is provided to reduce vehicle usage and ensure a safe campus environment.

[6] Education & Research (ED)

[6.1] Number of Courses/Subjects Related to Sustainability Offered

The number of sustainability-related courses opened in Kütahya Dumlupınar University in the 2023-2024 term is **1582**. These courses and information about them are given in the table above.

[6.2] Total Number of Courses/Subjects Offered

In our university, 20262 courses were given in the 2021-2022 period, 19671 courses were given in the 2022-2023, and 15803 courses were given in the 2023-2024 period.

Total number of courses offered in 2024 = **15803 courses**

[6.3] Total Number of Study Programs Related to Sustainability Offered

The number of study programs related to sustainability offered on our campus is **125**. Above is a list of the study programs that related to sustainability offered on our campus which aims to enhance sustainability.

[6.4] The Ratio of Sustainability Courses to Total Courses/Subjects

The ratio of sustainability-related courses to total courses at Kütahya Dumlupınar University is **10.01%,** indicating that approximately one out of every ten courses offered integrates sustainability topics into its curriculum.

[6.5] Total Research Funds Dedicated to Sustainability Research

Information on the researches conducted in Kütahya Dumlupınar University in 2022-2023 and 2024 on sustainability issues is given in the table below.

According to this information, the average budget allocated to research on sustainability by Kütahya Dumlupınar University is USD 243008.15.

Total research fund dedicated to sustainability research in 2022 = 455910.20 US Dollars

Total research fund dedicated to sustainability research in 2023 = 171388.47 US Dollars

Total research fund dedicated to sustainability research in 2024 = 101725.77 US Dollars

The averaged annum last 3 years of research fund dedicated to sustainability research = 243008.15 US Dollars

[6.6] Total Research Funds

Information on the research conducted at Kütahya Dumlupınar University in 2022-2023 and 2024 is given below. According to this information, the total research budget of Kütahya Dumlupınar University is $ 294931.32 on average.

Total research fund in 2022 = 370152.44 US Dollars

Total research fund in 2023 = 221277.23 US Dollars

Total research fund in 2024 = 293364.28 US Dollars

The averaged annum last 3 years of research fund = 294931.32 US Dollars

KÜTAHYA DUMLUPINAR UNIVERSITY TOTAL RESEARCH BUDGET		
The averaged annum last 3 years of research fund $ (2022-2023-2024)		
1	PURCHASE OF GOODS	104553.74
2	WAY	4540.88
3	PROCUREMENT OF SERVICES	62941.70
4	DEVICE PURCHASE and FIXTURE PURCHASE	122894.99
TOTAL RESEARCH BUDGET		294931.32

[6.7] The Ratio of Sustainability Research Funding to Total Research Funding

The ratio of sustainability research funding to total research funding at Kütahya Dumlupınar University is **82.29%**, demonstrating that a significant portion of the university's research budget is dedicated to projects focusing on sustainability-related topics and goals.

[6.8] Number of Lecturers and Researchers on Campus in One-Year Period

No	Unit	Prof. Dr.	Assoc. Prof. Dr.	Assis. Prof. Dr.	Lecturer	Research Assistant	Total
1	Altıntaş Vocational School	1	-	8	6	-	**15**
2	Çavdarhisar Vocational School	-	-	-	4	-	**4**
3	Domaniç Hayme Ana Vocational School	-	1	2	9	-	**12**
4	Dumlupınar Vocational School	-	-	-	6	-	**6**
5	Faculty of Education	18	21	22	-	8	**69**
6	Emet Vocational School	-	1	1	14	-	**16**
7	Faculty of Arts and Sciences	48	25	41	3	22	**139**
8	Gediz Vocational School	-	2	4	22	-	**28**
9	Faculty of Fine Arts	4	11	14	9	7	**45**
10	Hisarcık Vocational School	-	-	3	16	-	**19**
11	Faculty of Economics and Administrative Sciences	35	26	50	1	12	**124**
12	Faculty of Theology	5	6	22	5	7	**45**
13	Kütahya Fine Arts Vocational School	-	2	-	21	-	**23**
14	Kütahya Social Sciences Vocational School	3	6	8	15	-	**32**
15	Kütahya Technical Sciences Vocational School	-	2	9	24	-	**35**
16	Kütahya Faculty of Applied Sciences	9	5	5	1	6	**26**

17	Institute of Graduate Education	-	-	-	-	2	**2**
18	Faculty of Architecture	1	3	9	1	7	**21**
19	Faculty of Engineering	36	17	57	1	31	**142**
20	Pazarlar Vocational School	-	-	-	14	-	**14**
21	Simav Vocational School	-	1	4	16		**21**
22	Simav Faculty of Technology	5	4	9	-	3	**21**
23	Faculty of Sports Sciences	10	7	7	1	6	**31**
24	Şaphane Vocational School	-	-	1	11	-	**12**
25	Tavşanlı Vocational School	-	2	8	15	-	**25**
26	Tavşanlı Faculty of Applied Sciences	-	4	11	-	2	**17**
27	School of Foreign Languages	-	-	2	37	-	**39**
28	Rectorate	1	-	-	21	-	**22**
	Grand Total	**176**	**146**	**297**	**273**	**113**	**1005**

Examples of number lecturers and researchers (Kütahya Dumlupınar University, Türkiye)

The total number of lecturers and researchers working at our university in 2024 is **1005.**

[6.9] Number of Scholarly Publications on Sustainability in One-Year Period

The number of academic publications on sustainability at our university in 2024 is **997**. Keywords used in scanning academic publications on environment and sustainability published by Kütahya Dumlupınar University academicians in the last three years: renewable energy, green, environment, sustainability, climate change.

[6.10] Ratio of Scholarly Publications on Sustainability to Lecturers and Researchers

Ratio of scholarly publications on sustainability to lecturers and researchers on campus in one year period:

Total scholarly publication in one year period/ Total lecturers and researchers in one year period

= 997/1005

= **0.99**

[6.11] Number of Events Related to Sustainability

Example of events related to environment and sustainability hosted or organized by the University in the academic year 2022-2024.

Total number of sustainability/environment related events in:

2022: 52

2023: 41

2024: 60

Total: 153

A total average per annum over the last 3 years of 51 events (e.g. conferences, workshops, awareness raising, practical training, etc.).

[6.12] Number of Activities Organized by Student Organizations Related to Sustainability

On May 20, 2024, the Education, Solidarity, and Reconciliation Club, together with the Childology, Mathematics, Science, and Education Clubs, organized a sports event with 30 students: cycling took place from 16:30 to 17:00, followed by a volleyball match at 18:00. The event aimed to celebrate the spirit of the Commemoration of Atatürk, Youth and Sports Day, and successfully achieved its goal as participants particularly enjoyed themselves after the volleyball match. It has been evaluated within the scope of the Sustainable Development Goal of Good Health and Well-Being.	
Sports Event (Kütahya Dumlupınar University, Türkiye)	
On Saturday, December 14, 2024, the Animal Rights Protection Club within the Student Clubs and Societies (SKS) organized the traditional bird feeder activity for campus birds. Toilet paper rolls were coated with molasses, rolled in wheat, and hung on trees with strings to provide food for the birds on campus. The activity has been evaluated within the scope of the Sustainable Development Goals of Life on Land and Responsible Consumption and Production.	
Bird Feeders (Kütahya Dumlupınar University, Türkiye)	
On Wednesday, March 20, 2024, at 13:30, in Room B-203, Block B of the Faculty of Science and Letters, an online seminar titled “The Role of Astronomy in Contemporary Scientific Studies” was presented by Assoc. Prof. Dr. Hasan Ali Dal from EÜ, organized by the Physics and Astronomy Club. Approximately 40 participants, including faculty members and students from the Physics Department, attended. The event lasted about one hour and concluded with a question-and-answer session, ending successfully. It has been evaluated within the scope of the Sustainable Development Goal of Quality Education.	
The Role of Astronomy (Kütahya Dumlupınar University, Türkiye)	

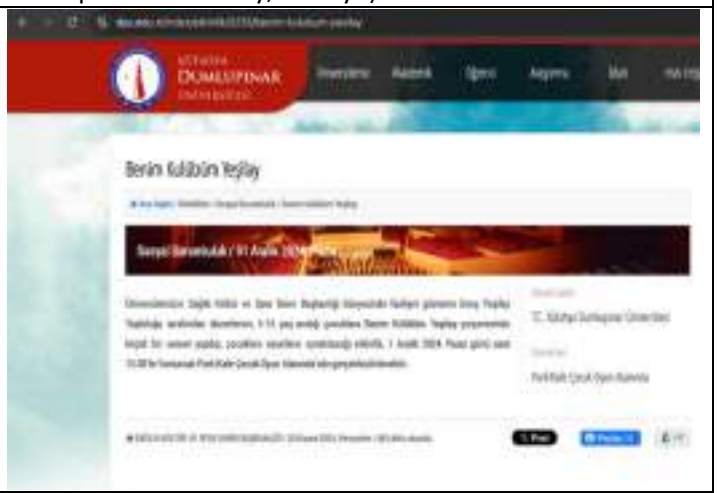
As part of the International Day of Persons with Disabilities, on December 3, our Contemporary Youth Club, under the University's Directorate of Health, Culture, and Sports, held a friendly match with the Kütahya Deaf Sports Club at Vole Halısaha from 19:00 to 20:00. The teams, each consisting of seven players, included members from our club as well as participants from the university's Üni Hodri Meydan team. Both sides attended the event with their supporters and competed in a fair and friendly manner. The match ended with a 7–6 victory in favor of our club. The activity has been evaluated within the scope of the Sustainable Development Goal of Reduced Inequalities.

International Day of Persons with Disabilities (Kütahya Dumlupınar University, Türkiye)

The Cybersecurity Student Club, operating under our University's Directorate of Health, Culture, and Sports, organized the Cyber Summit '24 on May 11, 2024. The event was attended by prominent figures from the cybersecurity field and nearly 600 students interested in cybersecurity. The activity has been evaluated within the scope of the Sustainable Development Goal of Industry, Innovation, and Infrastructure.

Cyber Summit '24 (Kütahya Dumlupınar University, Türkiye)

Organized by the Young Yeşilay Club, operating under our University's Directorate of Health, Culture, and Sports, the event "My Club is Yeşilay" will include a short presentation for children aged 4–10, followed by games for the children. The event will take place on Sunday, December 1, 2024, at 15:00 in the Children's Playground of Yumurcak Park Café. The activity has been evaluated within the scope of the Sustainable Development Goal of Good Health and Well-Being.



My Club is Yeşilay (Kütahya Dumlupınar University, Türkiye)

On May 17, 2024, the Education, Solidarity, and Reconciliation Club visited Kızılcaören Village School in Kütahya with 45 participants. The visit, which took place from 09:00 to 15:00, included a Hacivat–Karagöz shadow play, basic science experiments in classrooms, games in the schoolyard, and a “non-burning flame” demonstration. Pens were distributed as gifts to the students. The event aimed to entertain the students while strengthening teaching awareness and communication skills among the team members; it successfully achieved its goal with positive feedback. The activity has been evaluated within the scope of the Sustainable Development Goal of Quality Education.	
Kızılcaören Village School Visit (Kütahya Dumlupınar University, Türkiye)	
As the Dumlupınar Şahin Rocket Team, we presented our innovative projects in the field of rocket technology in detail during a presentation held at Prof. Dr. Necmettin Erbakan Vocational and Technical Anatolian High School. During the event, students received comprehensive training on rocket science and engineering. The activity has been evaluated within the scope of the Sustainable Development Goal of Quality Education.	
Rocket Technology (Kütahya Dumlupınar University, Türkiye)	
At the Faculty of Education of Kütahya Dumlupınar University, the Traces of Nature Club organized a panel titled “The Mystery of Wildlife.” Presentations were given on mushroom diversity, wildlife in Kütahya, and nature photography. During the question-and-answer session, participants directed questions to experts on biodiversity and nature conservation, increasing their awareness. The activity has been evaluated within the scope of the Sustainable Development Goals of Quality Education and Life on Land.	
The Mystery of Wildlife (Kütahya Dumlupınar University, Türkiye)	

The BBT Hackathon & Technology Festival, organized for the first time by the Computer and Informatics Club (BBT) of Kütahya Dumlupınar University in collaboration with the Technology Competitions Coordination, was held from May 4–6, 2024. Over 150 participants from 20 universities and 15 cities, 25 registered teams, and 15 project presentations came together to develop innovative solutions under the theme "Smart Campus." Enriched with raffles, tournaments, and workshops, the event provided a platform that enhanced participants' technical skills while promoting entrepreneurship and innovation. The activity has been evaluated within the scope of the Sustainable Development Goal of Industry, Innovation, and Infrastructure.

BBT Hackathon & Technology Festival 2024 (Kütahya Dumlupınar University, Türkiye)

Kütahya Game Jam 2024, organized for the third time by the Computer and Informatics Club at Kütahya Dumlupınar University from October 25–27, brought together over 150 participants and 23 game development teams from more than 20 universities and 10 cities. Throughout the event, teams worked on developing their projects while cosplay competitions, tournaments, and raffles created a dynamic environment. Seventeen games were presented to the jury, and three winning teams were awarded. This event, which united the game development community, provided participants with an unforgettable experience and laid a strong foundation for future editions. The activity has been evaluated within the scope of the Sustainable Development Goal of Quality Education.

Kütahya Game Jam 2024 (Kütahya Dumlupınar University, Türkiye)

As part of the School Painting Activity, the Traces of Nature Club, operating under our University's Directorate of Health, Culture, and Sports, organized a wall-painting event at Dumlupınar Kindergarten on Saturday, November 2, 2024. By involving the children in the process, a fun and artistic environment was created, while also fostering a colorful atmosphere to encourage them to attend school. Through the activity, children experienced teamwork and cooperation, and our members contributed successfully through collaborative effort. The activity has been evaluated within the scope of the Sustainable Development Goal of Quality Education.	
School Painting Activity (Kütahya Dumlupınar University, Türkiye)	
The Music Club, operating under our University's Directorate of Health, Culture, and Sports, organized the "Under the Stars" pond event during the fall semester of the 2024–2025 academic year, which has been decided to be held as a traditional activity. The event is considered to enhance psychosocial well-being and social participation. Therefore, it has been evaluated within the scope of the Sustainable Development Goal of Good Health and Well-Being.	
Under the Stars (Kütahya Dumlupınar University, Türkiye)	
On March 8, 2024, a social event was successfully held by the Is There Anyone Who Hears My Voice? Club and the Traces of Nature Club, operating under our University's Directorate of Health, Culture, and Sports, in combination with the traditional iftar dinner on Kütahya's Sevgi Yolu. The program, which began at 17:00, included traditional Ramadan activities such as playing yakar top, kupecik, and other old street games, followed by a bracelet-making workshop conducted by members of both clubs. The activity has been evaluated within the scope of the Sustainable Development Goal of Gender Equality.	
March 8 – International Women's Day (Kütahya Dumlupınar University, Türkiye)	

The Physics and Astronomy Club, operating under our University's Directorate of Health, Culture, and Sports, organized a visit to the Sabancı Space House at Eskişehir Sazova Science, Culture, and Art Park on Tuesday, December 24, 2024, with a group of approximately 42 participants. The activity has been evaluated within the scope of the Sustainable Development Goal of Quality Education.	
Eskişehir Technical Visit (Kütahya Dumlupınar University, Türkiye)	
The Cybersecurity Student Club of our University organized the WiseCamp event on November 23–24, 2024, in collaboration with Cyberwise to enhance the knowledge and skills of its members. The activity has been evaluated within the scope of the Sustainable Development Goal of Quality Education.	
Wise Camp 2024 (Kütahya Dumlupınar University, Türkiye)	
The Education, Solidarity, and Reconciliation Club, under our University's Directorate of Health, Culture, and Sports, organized a visit to the Çinikent Education Center in Kütahya on December 3, 2024. The activity has been evaluated within the scope of the Sustainable Development Goals of Quality Education and Reduced Inequalities. The purpose of the visit was to entertain the students, strengthen teaching awareness and communication skills among the team, and raise awareness for International Day of Persons with Disabilities on December 3.	
Çinikent Education Center Visit (Kütahya Dumlupınar University, Türkiye)	

The DPÜ Gastronomy Club organized a movie night at the conference hall of the Tavşanlı Faculty of Applied Sciences on November 6, 2024, starting at 19:00. A total of 120 participants, including the management team and club members, attended the event. The activity has been evaluated within the scope of the Sustainable Development Goal of Good Health and Well-Being.

Movie Night (Kütahya Dumlupınar University, Türkiye)

The Industry and Productivity Club organized the EMDAK event on December 13, 2024, to allow industrial engineering students to get to know various departments in different sectors. Four distinguished speakers shared their experiences in their fields of expertise. The activity has been evaluated within the scope of the Sustainable Development Goal of Quality Education.

Emdak (Kütahya Dumlupınar University, Türkiye)

The Fiqh Club, operating under our University's Directorate of Health, Culture, and Sports, held a panel titled "Religious Abuse from the Perspective of University Youth" on December 25, 2024. The activity has been evaluated within the scope of the Sustainable Development Goal of Peace, Justice, and Strong Institutions.

Religious Abuse from the Perspective of University Youth (Kütahya Dumlupınar University, Türkiye)

The Gastronomy Club, operating under our University's Directorate of Health, Culture, and Sports, organized a Pasta and Risotto Workshop on December 25, 2024, at the Tavşanlı Faculty of Applied Sciences. The activity has been evaluated within the scope of the Sustainable Development Goal of Quality Education.	
Pasta and Risotto Workshop (Kütahya Dumlupınar University, Türkiye)	
The Google Developer Groups, under the Space and Aviation Club, organized the DevFest'24 event on December 7, 2024. The activity has been evaluated within the scope of the Sustainable Development Goals of Quality Education and Industry, Innovation, and Infrastructure.	
Devfest ' 24 (Kütahya Dumlupınar University, Türkiye)	
The Music Club, operating under our University's Directorate of Health, Culture, and Sports, organized an event in collaboration with the Barrier-Free Life Club at Down Café on Tuesday, December 3, 2024, during the fall semester of the 2024–2025 academic year. The activity has been evaluated within the scope of the Sustainable Development Goal of Reduced Inequalities.	
December 3 – International Day of Persons with Disabilities (Kütahya Dumlupınar University, Türkiye)	

The number of student groups and sustainability-related student organizations operating under the Kütahya Dumlupınar University Health, Culture and Sports Directorate is 23 activities.

[6.13] University-Run Sustainability Website

Website is available, accessible, and updated regularly.

[6.14] Sustainability Website Address (URL)

https://greenmetric.dpu.edu.tr

[6.15] Sustainability Report

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<td colspan="2">Previous years’ sustainability reports (Kütahya Dumlupınar University, Türkiye)</td>
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2024-2025 Sustainability Report (Kütahya Dumlupınar University, Türkiye)

The Kütahya Dumlupınar University Sustainability Report 2024–2025 represents the fifth sustainability report prepared by the university and is published on the GreenMetric webpage, while being regularly updated on the university's official website.

[6.16] Sustainability Report Link Address (URL)

https://greenmetric.dpu.edu.tr/tr/index/sayfa/17728/greenmetric-surdurulebilirlik-raporu-2024-2025

[6.17] Number of Cultural Activities on Campus

Hisarcık History, Culture and Tourism Workshop Date: 20.12.2024

International Student Festival Date: 17.12.2024

Tavsanlı History Culture and Tourism Workshop
Event Date: 28.11.2024

Museum Education Workshop
Event Date: 15.12.2024

Aizanoi Ceramics and Tile Design Competition
Event Date:28.02.2024

2nd Children's Festival
Event Date:02.01.2024

Çinikent Education Center
Tour Event: Date: 03.12.2024

Kızılcaören Village School Tour
Event Date: 17.05.2024

Eskişehir Trip 24.12.2024

Cinema Night Event 06.11.2024

International Anatolian Gems and Jewelry Exhibition Date:08.10.2024

Women's Day Event Date:08.03.2024

DPÜ'de Türkiye - Macaristan Kültür Yılı Kapsamında İki Etkinlik

Mohács and the Ottoman Golden Age Exhibitions Date:30.09.2024

Rektör Kızıltoprak Görünenin Ötesi Sergisi'ni Açtı

Beyond the Seeing Exhibition Date: 23.09.2024

Three Works for the Ecuador Poster Biennial Date:19.09.2024

A Journey into Hungarian Contemporary Art Event Date: 16.04.2024

Breath of Spring from Uzbekistan Event

DPÜ'de TÜRKSOY'un Fotoğraf Sergisi Açıldı

DPÜ'de Fatih ve Osmanlı Estetik Dünyası Konferansı

Conference Event on Mehmed the Conqueror and the Aesthetic World of the Ottoman Empire Date:24.05.2024

DPÜ'de Hüsn-i Hat Besmele Sergisi

Calligraphy Basmala Exhibition Event Date:12.06.2024

Examples of **cultural activities on campus** (Kütahya Dumlupınar University, Türkiye)

Example of Total number cultural activities on campus organized by the University: More than 10 events per year (total 20 events).

[6.18] Number of University Programs with International Collaborations

5th Intercontinental Tourism Management Congress

The 5th Intercontinental Tourism Management Congress, organized under the leadership of the Tourism Academicians Association and with Kütahya Dumlupınar University represented as a stakeholder by the Dean's Office of Tavşanlı Faculty of Applied Sciences, was held on May 1–4, 2024. The congress aimed to bring together tourism scholars, students, and professionals from various countries to discuss emerging trends and developments in tourism within an academic environment. The event featured participation from world-renowned academics. For more information and participation details, please visit http://mtcon.org/.

International Anatolian Jewelry and Ornament Congress

The International Anatolian Jewelry and Ornament Congress was hosted by Kütahya Dumlupınar University on October 8–9, 2024. The event was held in-person at the Ahmet Yakupoğlu Conference Hall of the Faculty of Fine Arts. Academics and industry professionals from various Turkish universities participated. Prof. Dr. Süleyman Kızıltoprak served as the congress chair. The event aimed to strengthen national and international collaborations in jewelry and ornament design. An "Anatolia"-themed exhibition was also organized as part of the congress, featuring works from various universities and artists. Participants displayed their works on panels, stands, or easels, providing a rich cultural experience that combined different art and design disciplines. The event offered both an academic and artistic platform, providing valuable insights and experiences to attendees.

100th Anniversary of Turkish–Hungarian Relations International Symposium

The 100th Anniversary of Turkish–Hungarian Relations International Symposium was held on October 29, 2024, at Kütahya Dumlupınar University (DPÜ), Evliya Çelebi Campus. The symposium commemorated the centennial of Turkish–Hungarian relations, exploring the historical and cultural ties between the two countries. Academics, researchers, and experts participated in the event, which included presentations, panels, and discussions on cultural heritage, diplomatic relations, and collaborative developments. Attendees had the opportunity to evaluate bilateral interactions and joint projects throughout the symposium.

2nd International Student Festival

The 2nd International Student Festival was held at Kütahya Dumlupınar University (DPÜ) on December 17–18, 2024, in the Bedesten area of Evliya Çelebi Campus. Organized in collaboration with the Kütahya International Student Association, the festival opened with the participation of Rector Prof. Dr. Süleyman Kızıltoprak. International students from 16 countries (Afghanistan, Chad, Indonesia, Morocco, Ivory Coast, Palestine, Iraq, Comoros, Lebanon, Egypt, Somalia, Sudan, Syria, Jordan, and Yemen) set up stands to introduce their cultures, featuring traditional costumes, folkloric dances, and local cuisine. Rector Kızıltoprak visited the stands and engaged with students, promoting cultural exchange. The festival aimed to enhance intercultural understanding and interaction among international students.

Panel and Exhibition on Türkiye–Tunisia Relations

On December 8, 2024, Kütahya Dumlupınar University (DPÜ) hosted an international panel and exhibition focusing on Türkiye–Tunisia relations. The event took place at the Rectorate's Red Hall and foyer area, attended by the Ambassador of Tunisia to Türkiye, Ahmet Misbah Demircan, Kütahya Governor Musa Işın, numerous academics, students, and stakeholders. The panel discussed historical and cultural ties, academic collaborations, and future joint projects, while the exhibition presented illustrations under the

theme “Tunisia & Türkiye Joint Heritage Route.” The event provided a significant platform to strengthen sustainable international cooperation and preserve cultural heritage.

Support for the International Turkish Art Symposium and Workshop of the Union of Fine Arts of the Turkic World

Faculty members Prof. Dr. Levent Mercin, Assoc. Prof. Eren Evin Kılıçkaya, Lecturer İlhami Diksoy, and Research Assistant Ceyda Kurteş participated in the event with their works. The exhibition, featuring artworks by numerous international and national artists, was inaugurated on February 16, 2024, at the Kütahya Municipality foyer. Following the exhibition, a symposium was held in the Conference Hall, where Prof. Dr. Levent Mercin delivered a presentation titled “Use of Local Codes in Poster Design,” moderated by Prof. Dr. Alaybey Karoğlu from Ankara Hacı Bayram Veli University.

“Gaza Through the Eyes of Two Turkish and One Palestinian Student” Exhibition at DPÜ

In 2024, Kütahya Dumlupınar University (DPÜ) hosted the exhibition “Gaza Through the Eyes of Two Turkish and One Palestinian Student” in the Bedesten foyer area. The opening ceremony was attended by Rector Prof. Dr. Süleyman Kızıltoprak, Vice-Rector Prof. Dr. Özer Aydın, Dean of the Faculty of Fine Arts Prof. Dr. Levent Mercin, academic and administrative staff, and students. The exhibition showcased works by Emir Bıyıklı, Bana Musallam, and Oğulcan Çelik, highlighting the challenges and resistance experienced by the Palestinian people. The event offered an international perspective that enhanced students’ social responsibility and cultural awareness.

EU-Supported STRIM Project

An international meeting within the scope of the STRIM (Safety Training with Real Immersivity for Mining) Project, supported by the EU CBHE Program, was held at Kütahya Dumlupınar University on May 27–31, 2024. Representatives from Angola, Mozambique, and Portugal participated, while faculty members Prof. Dr. Oktay Şahbaz, Prof. Dr. Cengiz Karagüzel, and Assoc. Dr. Zeynep Demirci coordinated the project on behalf of the university. The meeting reviewed project progress, planned future activities, and explored potential collaboration opportunities between participants’ institutions and the university.

Inclusive and Innovative Digital Education for Migrant Communities in Kenya and Somalia (IIDEMIC) Project

Kütahya Dumlupınar University (DPÜ) coordinates the Erasmus+ KA220 Capacity Building (CBHE) project “Inclusive and Innovative Digital Education for Migrant Communities in Kenya and Somalia (IIDEMIC).” Launched on January 1, 2024, the project will run for three years with a total budget of €719,939. Partners include Kenyatta University (Kenya), Masinde Muliro University (Kenya), Mogadishu University (Somalia), Red Sea University (Somalia), WSB University (Poland), and DPÜ. The project aims to enhance employability and inclusive education opportunities for refugees and migrants in Kenya and Somalia through digital education.

Erasmus+ KA171 Projects

Under Erasmus+ KA171 projects, student and staff mobility initiatives covering regions such as Asia, the Western Balkans, the Eastern Partnership, Latin America, and the Southern Mediterranean have been approved for 2024. These projects aim to strengthen the university’s international collaborations and expand its global education network. Among 23 KA130 accreditation applications submitted for the Erasmus+ Higher Education Program 2023 period, four projects were accredited, including one from the Faculty of Engineering. Project partners include Kütahya Dumlupınar University, Dokuz Eylül University,

Eskişehir Osmangazi University, Afyon Kocatepe University, and the Kütahya Chamber of Commerce and Industry.

1st International ELT, EFL & ELL Conference

Kütahya Dumlupınar University (DPÜ) hosted the 1st International ELT, EFL & ELL Conference (INEEEC) on May 10–11, 2024, under the theme "Multilingualism and Multiculturalism." The event took place at the Germiyanoğlu Yakup Bey Conference Hall of the Faculty of Arts and Sciences and was attended by Rector Prof. Dr. Süleyman Kızıltoprak, Vice-Rector Prof. Dr. Ayhan Kahraman, speakers, and academic and administrative staff. Moderated by Prof. Dr. Murat Hişmanoğlu, the conference highlighted multilingualism and multiculturalism as fundamental realities of our time, aiming to ensure the event was productive both scientifically and culturally on an international scale.

Kazakhstan Independence Day Celebration

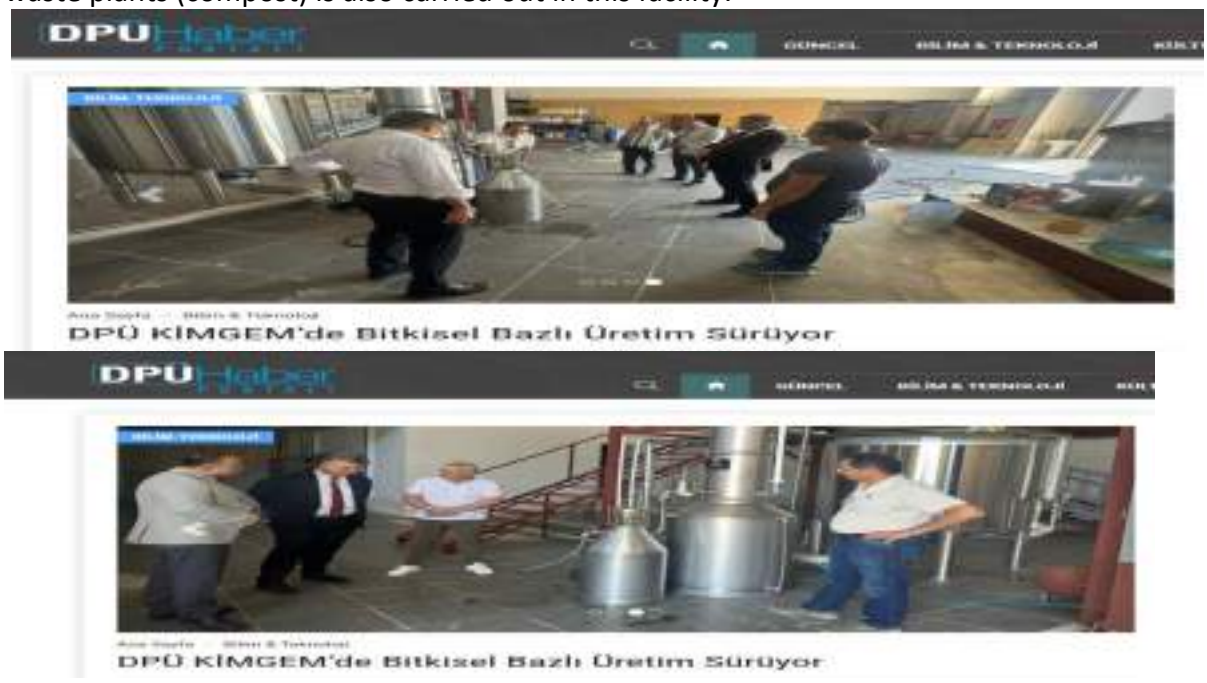
Kütahya Dumlupınar University celebrated Kazakhstan Independence Day on December 16, 2024, hosted by the DPÜ Kazakh Students' Association at the Hezar Dinari Cultural Center. The event was attended by Rector Prof. Dr. Süleyman Kızıltoprak, academic and administrative staff, and students. Speeches highlighted the history of Kazakhstan's independence, Turkic world relations, and Kazakh-Turkish connections. Following the Rector's speech, Doç. Dr. Vecihi Sefa Fuat Hekimoğlu, Assel Rymtayeva, and Basaussa Tileubayeva discussed key milestones in Kazakhstan's path to independence and the recent rise in Kazakh-Turkish relations.

[6.19] Number of Community Services Related to Sustainability Organized by the University and Involving Students

Project Name	Participants	Project Duration	Project Area
1. Children's Festival Project (Insects Workshop)	5000	9 hours	Education and Research (ED)
2. Good Practices in Early Childhood Education – A Forest School Example: *Asilo Nel Bosco Gli Gnomi dei Kiwi / ITALY*	30	3 hours	Education and Research (ED)
3. Nature Walk, Disaster Management in Nature, Navigation and Survival Training	20	8 hours	Education and Research (ED)
4. Camping Activity in Dumlupınar	20	36 hours	Education and Research (ED)
5. Panel on the Mystery of Wildlife	50	2 hours	Education and Research (ED)
6. Campus Nature Walk and Edible Mushroom Gathering Event	20	8 hours	Education and Research (ED)
7. Grid Orienteering Training	50	1 hours	Education and Research (ED)
8. Solar and Hydroelectric Power Plant (GES/HES) Seminar	35	2 hours	Energy and Climate Change (EC)
9. Tree Planting Event	30	2 hours	Energy and Climate Change (EC)
10. Sapling Planting	30	2 hours	Energy and Climate Change (EC)
11. Acrylic Painting with Recycled Cardboard	25	1 hours	Waste (WS)
12. Dumlupınar Nature Walk	80	5 hours	Education and Research (ED)
13. A Sapling, A Hope: Greening the Future	20	1 hours	Education and Research (ED)
14. Awareness Training on Climate Change and Climate-Friendly Behaviors	50	1 hours	Education and Research (ED)
15. May 22 – International Day for Biological Diversity	30-40	3 hours	Education and Research (ED)

16. Sapling Planting	100-150	1 Day	Energy and Climate Change (EC)
17. Energy Efficiency	100-150	1 Day	Education and Research (ED)
18. First Aid and Awareness	100-150	1 Day	Education and Research (ED)
19. Nursing Home Awareness Visits	40	180 Minute	Education and Research (ED)
20. Poster and Presentation Days	150	180 Minute	Education and Research (ED)
21. Special Education School Awareness Visits	40	180 Minute	Education and Research (ED)
22. Motivation Activities at Yemişli Primary and Secondary Schools	40	180 Minute	Education and Research (ED)
23. March World Water Day	150	2 hours	Education and Research (ED), Water Usage and Management (WR)
24. School-Based Environmental Education	100	1hours	Education and Research (ED)
25. Sapling Planting Event	30	3 hours	Education and Research (ED)
26. Nature Awareness Days: Hiking and Environmental Cleaning	60	2 hours	Education and Research (ED)

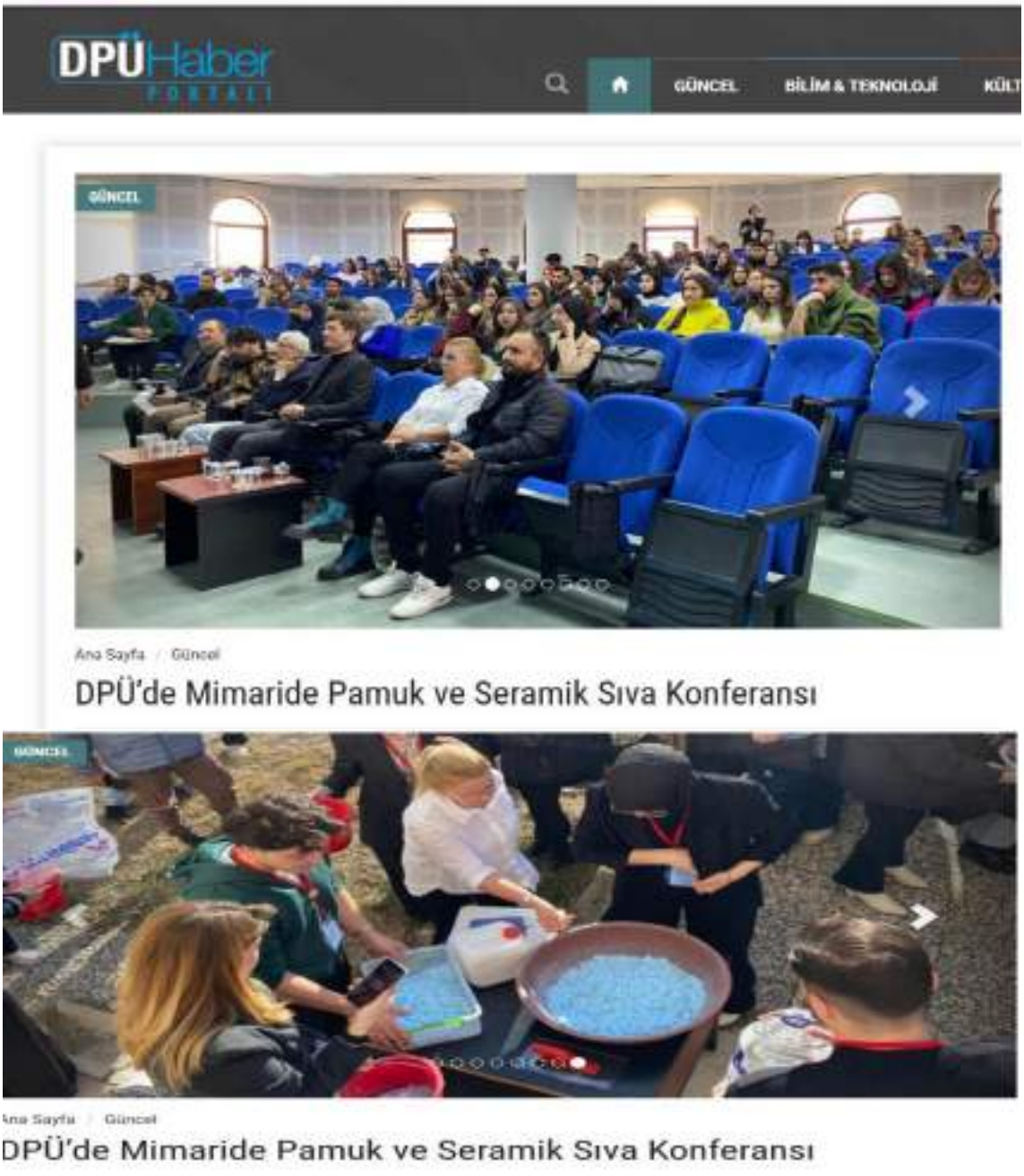
[6.20] Number of Sustainability-Related Startups

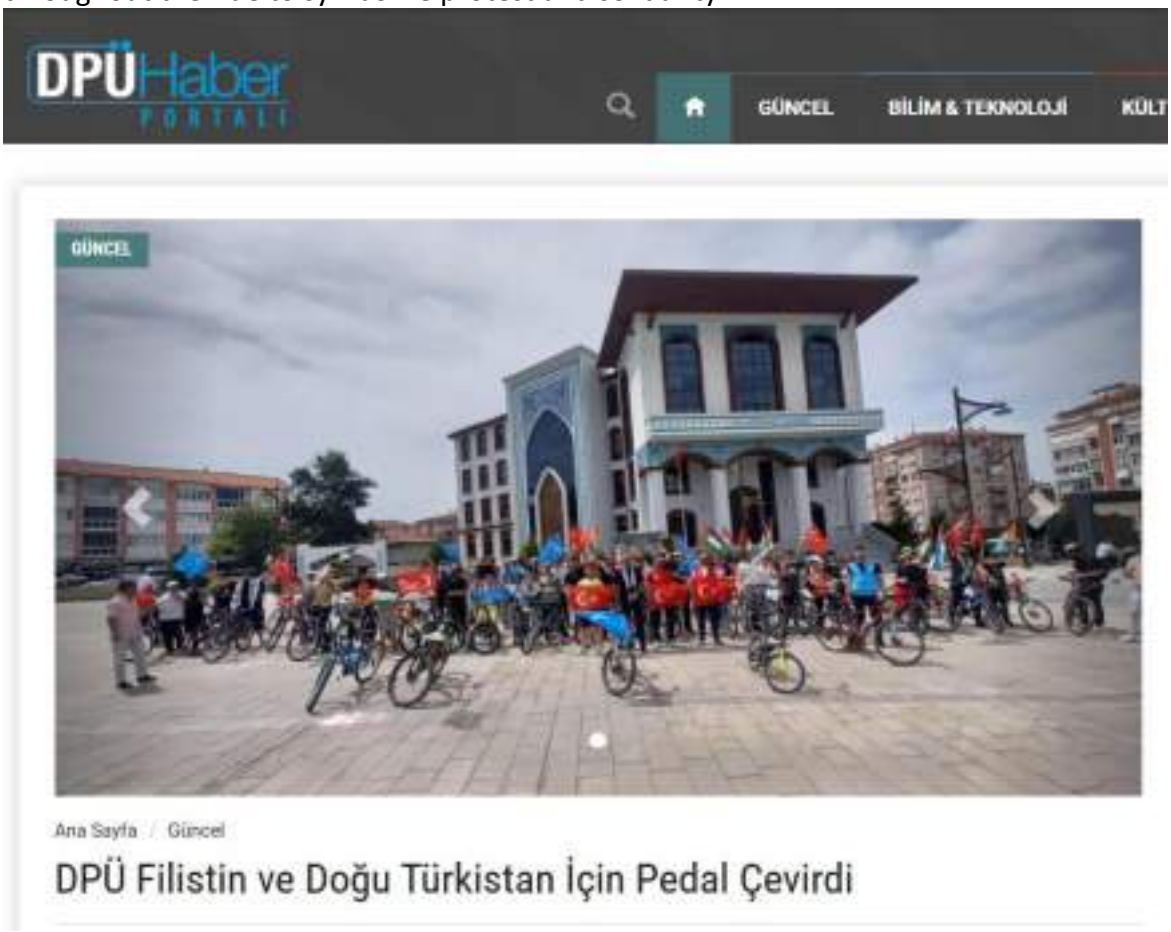
Number	Information
1	**Startup Name:** Plant-Based Production Continues at DPÜ KİMGEM **UI Greenmetric anketindeki girişim alanı:** (EC, WS, WR) **URL:***https://haber.dpu.edu.tr/tr/haber_oku/66bb5560ec678/dpu-kimgemde-bitkisel-bazli-uretim-suruyor* **Description:** The DPÜ Chemical Product Development Application and Research Center (DPÜ KİMGEM) continues its studies on plants at full speed. At the center's workshop, lavender oil and other aromatic essential oils can be extracted through steam distillation. The cold-press technique is also used for oil extraction. Production of simple chemical substances and purified water is possible, and fertilizer production from waste plants (compost) is also carried out in this facility. 

2	**Startup Name:** A Type of Fuel Produced from Plant-Based Waste at DPÜ **UI GreenMetric Category:** WS **URL:** https://haber.dpu.edu.tr/tr/haber_oku/65bcd7ce258be/dpude-bitkisel-atiklardan-yakit-cesidi-uretildi **Description:** 10 tons of pellets (a type of fuel obtained by processing and compressing plant-based waste) were produced by processing park, garden, and lavender waste as well as mowed grass collected from Kütahya Dumlupınar University campuses at the unit established at Tavşanlı Vocational School. Prof. Dr. Çelik, project leader, emphasized the rapid increase in energy consumption in Türkiye and worldwide due to population growth, technological development, and increased use of electronic devices. The project, launched about two years ago to valorize waste, established a pilot and mobile pellet production unit on the Tavşanlı Campus. He stated: "At our Evliya Çelebi Campus, periodic waste such as park and garden waste, mowed grass, and lavender residues were converted into pellet fuel for heating purposes. Last year, we produced approximately 10 tons of pellet fuel from waste." He also noted that the machinery used for pellet production was developed within the unit. Between April and November 2023, studies were conducted on converting approximately 214 tons of garden waste generated on 1,500 decares of campus area into pellet fuel. The results indicated 167 tons of mowed grass, 36 tons of forest waste, and 10 tons of leaves. These eco-friendly, renewable fuels have calorific values equivalent to approximately 90,000 m^3 of natural gas—worth about 1 million TL as of December 2023. After production costs, the annual contribution to the university is estimated at 500,000–700,000 TL. 

3	**Startup Name:** Waste Materials Turned into Artworks at DPÜUI Greenmetric anketindeki girişim alanı: (WS, ED) **UI GreenMetric Category:** WS, ED **URL:** https://haber.dpu.edu.tr/tr/haber_oku/658d19cc88e01/dpude-atik-malzemeler-sanat-eserine-donusuyor **Description:** Students at the DPÜ Disabled Student Unit produce jewelry and souvenirs from waste materials every week in the hobby workshop. Artist Sibel Temelkıran, who teaches students, said: "We engage students in wood painting, coaster, and tile making. I have been doing this for 25 years and love recycling. I am doing my best to raise awareness among everyone. **Photos:**  

4	**Startup Name:** Technical Visit from DPÜ KTB Vocational School to Kütahya Regional Forestry Directorate **UI Greenmetric anketindeki girişim alanı:** (ED) **URL:** *https://haber.dpu.edu.tr/tr/haber_oku/67505caebf0a2/dpu-ktbmyodan-Kütahya-orman-bolge-mudurlugune-teknik-gezi* **Description:** A technical trip was organized for students of the Civil Defense and Firefighting Program at DPÜ Kütahya Technical Sciences Vocational School to the Kütahya Regional Forestry Directorate. After a briefing on forest fire prevention activities by Deputy Regional Forestry Director Taner Nişancı and Head of Forest Firefighting Branch A. Yavuz Helvacı, students were informed about the Forest Fire Volunteer Regulation and became registered forest fire volunteers.  

5	**Startup Name:** Conference on Cotton and **UI Greenmetric anketindeki girişim alanı: (ED)** **URL:** *https://haber.dpu.edu.tr/tr/haber_oku/676bf7927bd7a/dpude-mimaride-pamuk-ve-seramik-siva-konferansi* **Description:** The Design and Innovation Community of Kütahya Dumlupınar University organized an event titled Cotton and Ceramic Plaster in Architecture featuring Ahmet Yabel Yurtman and Saliha Malkoç from Antalya DEPKA Group. During the event, interior architecture students attended a seminar followed by a workshop to learn about the innovative use of cotton and ceramic plaster in the construction industry. The event concluded with a Q&A session with students. 

6	**Startup Name:** DPÜ Pedaled for Palestine and East Turkestan **UI GreenMetric Category:** EC, ED **URL:** https://haber.dpu.edu.tr/tr/haber_oku/666c897b34842/dpu-filistin-ve-dogu-turkistan-icin-pedal-cevirdi **Description:** The university participated in the Cycling Tour for Palestine and East Turkestan, organized in cooperation with local NGOs in Kütahya. The event, which started in front of the Kütahya Governorship and included 40 DPÜ bicycles, aimed to raise awareness about human rights violations in Palestine and East Turkestan and to urge the international community not to remain indifferent. Whistles were blown throughout the ride to symbolize protest and solidarity. 

7	**Startup Name:** Our Rector and Student Communities' Visit to Domaniç **UI Greenmetric anketindeki girişim alanı: ED** **URL:** https://haber.dpu.edu.tr/tr/haber_oku/67705087a85a2/rektorumuz-ve-topluluklarimizdan-domanic-gezisi **Description:** The Rector of Kütahya Dumlupınar University, Prof. Dr. Süleyman Kızıltoprak, visited the historical and touristic centers of Domaniç together with students from university communities. Students had the opportunity to get acquainted with Domaniç Hayme Ana Vocational School and use its social facilities. Later, they visited the Mızık Pine and Topuk Plateau, enjoying the snow and playing snowball fights with the rector. **Photos:** 

[6.21] Total Number of Graduates with Green Jobs (for the Last 3 Years)

Academic Year	Faculty/Department	Total Number of Graduates	Number of Graduates Working in Green Jobs	Definition of Green Jobs	Data Source
2022/2023	Dumlupınar Vocational School / Alternative Energy Resources Technology Program	22	7	Renewable Energy Technician	DPU Alumni Portal
2023/2024	Dumlupınar Vocational School / Alternative Energy Resources Technology Program	13	4	Renewable Energy Technician	DPU Alumni Portal
2022/2023	Hisarcık Vocational School	232	-	-	STUDENT INFORMATION SYSTEM (OBS)
2023/2024	Hisarcık Vocational School	130	-	-	STUDENT INFORMATION SYSTEM (OBS)
2022-2023	Faculty of Arts and Sciences	254			
2023-2024	Faculty of Arts and Sciences	518			
2022-2023	Altıntaş Vocational School	152	-	-	-
2023-2024	Altıntaş Vocational School	127	-	-	-
2022/2023	Tavşanlı Vocational School	283	–	–	DPU Alumni Portal
2023/2024	Tavşanlı Vocational School	307	–	–	DPU Alumni Portal
2021/2022	Faculty of Applied Sciences, Tavşanlı / Tourism Management	28	-		DPU Alumni Portal
2022/2023	Faculty of Applied Sciences, Tavşanlı / Tourism Management	18	-		DPU Alumni Portal
2023/2024	Faculty of Applied Sciences, Tavşanlı / Gastronomy and Culinary Arts	8	-		DPU Alumni Portal
2022/2023	Faculty of Applied Sciences, Tavşanlı / Gastronomy and Culinary Arts	4	-		DPU Alumni Portal
2023/2024	Faculty of Applied Sciences, Tavşanlı / Gastronomy and Culinary Arts	11	-		DPU Alumni Portal
2022/2023	Faculty of Engineering / Civil Engineering	99	-	-	STUDENT INFORMATION SYSTEM (OBS)
2022/2023	Faculty of Engineering / Mechanical Engineering	194	-	-	STUDENT INFORMATION SYSTEM (OBS)
2022/2023	Faculty of Engineering / Mining Engineering	9	-	-	STUDENT INFORMATION SYSTEM (OBS)

2022/2023	Faculty of Engineering / Electrical and Electronics Engineering	132	-	-	STUDENT INFORMATION SYSTEM (OBS)
2022/2023	Faculty of Engineering / Industrial Engineering	157	-	-	STUDENT INFORMATION SYSTEM (OBS)
2022/2023	Faculty of Engineering / Computer Engineering	145	-	-	STUDENT INFORMATION SYSTEM (OBS)
2022/2023	Faculty of Engineering / Geological Engineering	4	-	-	STUDENT INFORMATION SYSTEM (OBS)
2022/2023	Faculty of Engineering / Materials Science and Engineering	7	-	-	STUDENT INFORMATION SYSTEM (OBS)
2022/2023	Faculty of Engineering / Metallurgical and Materials Engineering	3	-	-	STUDENT INFORMATION SYSTEM (OBS)
2023/2024	Faculty of Engineering / Civil Engineering	76	-	-	STUDENT INFORMATION SYSTEM (OBS)
2023/2024	Faculty of Engineering / Mechanical Engineering	159	-	-	STUDENT INFORMATION SYSTEM (OBS)
2023/2024	Faculty of Engineering / Mining Engineering	6	-	-	STUDENT INFORMATION SYSTEM (OBS)
2023/2024	Faculty of Engineering / Electrical and Electronics Engineering	101	-	-	STUDENT INFORMATION SYSTEM (OBS)
2023/2024	Faculty of Engineering / Industrial Engineering	152	-	-	STUDENT INFORMATION SYSTEM (OBS)
2023/2024	Faculty of Engineering / Computer Engineering	136	-	-	STUDENT INFORMATION SYSTEM (OBS)
2023/2024	Faculty of Engineering / Geological Engineering	3	-	-	STUDENT INFORMATION SYSTEM (OBS)
2023/2024	Faculty of Engineering / Materials Science and Engineering	5	-	-	STUDENT INFORMATION SYSTEM (OBS)
2023/2024	Faculty of Engineering / Metallurgical and Materials Engineering	5	-	-	STUDENT INFORMATION SYSTEM (OBS)
2023/2024	Mechanical Engineering (Master's Program)	1	1	Energy Manager	DPU Alumni Portal
2023/2024	Department of Primary Education – Preschool Education	80	1	Forest School Instructor	DPU Alumni Portal
TOTAL			**13**		

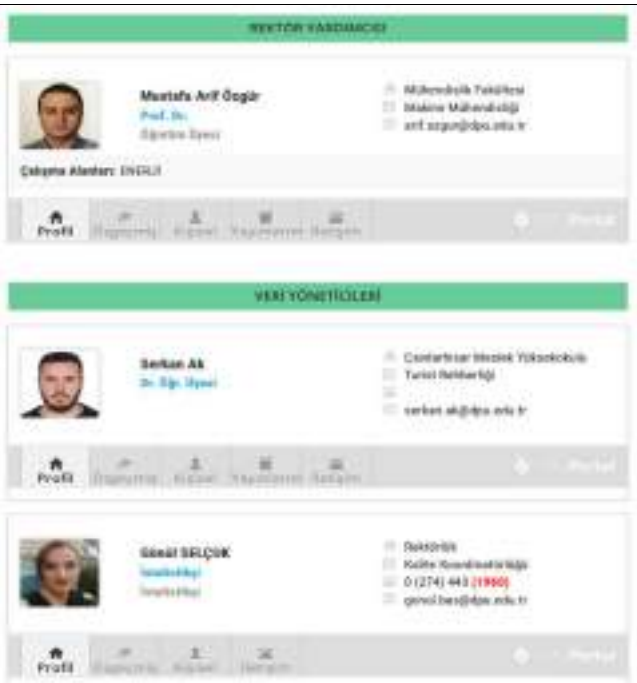
[6.22] Total Number of Graduates (for the Last 3 Years)

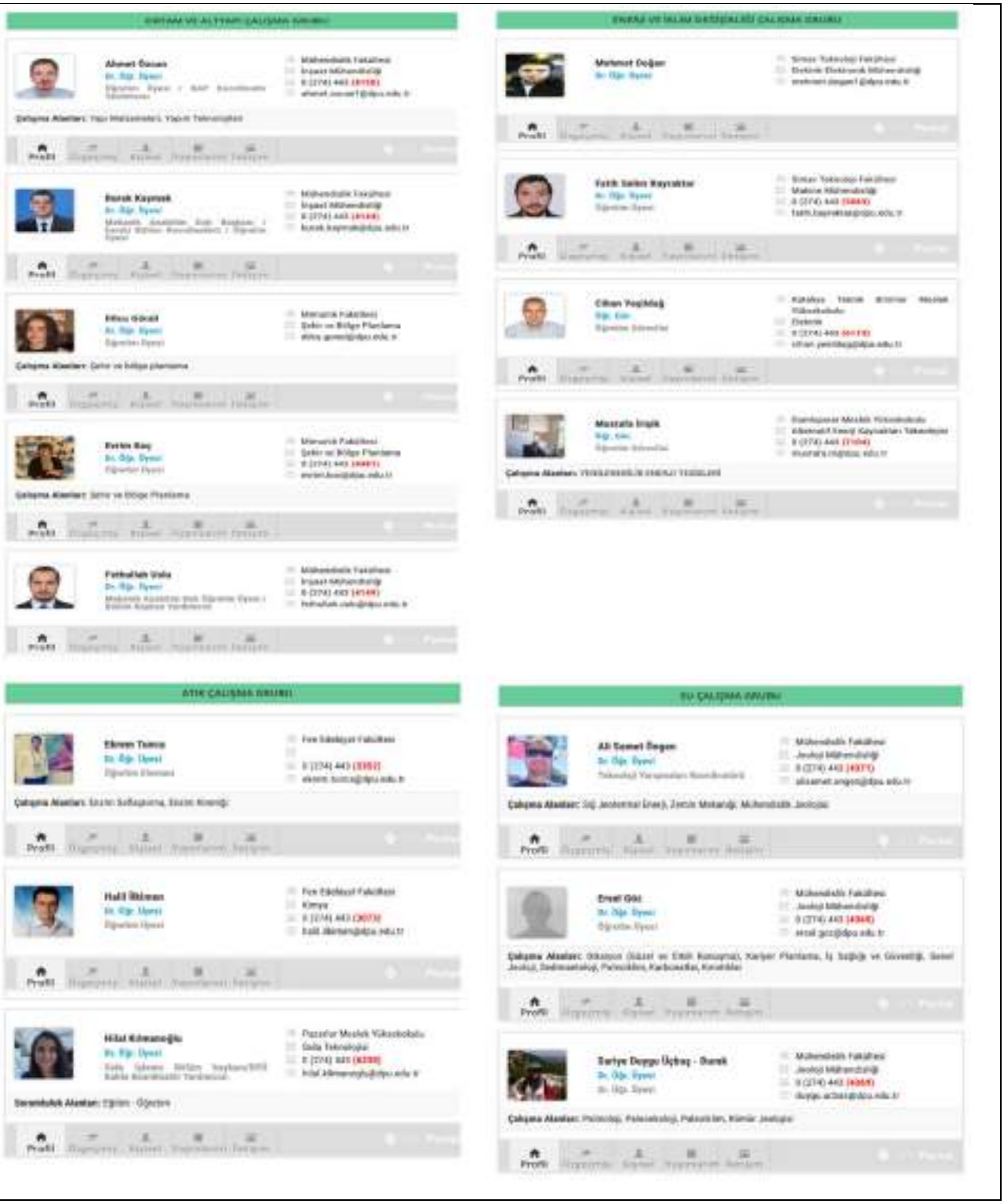
Academic Year	Faculty/Department	Total Graduates
2022/2023	Altıntaş Vocational School	152
2022/2023	Dumlupınar Vocational School	22
2022/2023	Hisarcık Vocational School	232
2022/2023	Faculty of Arts and Sciences	254
2022/2023	Tavşanlı Vocational School	283
2022/2023	Tavşanlı Faculty of Applied Sciences	22
2022/2023	Faculty of Engineering	750
2023/2024	Altıntaş Vocational School	127
2023/2024	Dumlupınar Vocational School	13
2023/2024	Hisarcık Vocational School	130
2023/2024	Faculty of Arts and Sciences	518
2023/2024	Tavşanlı Vocational School	307
2023/2024	Tavşanlı Faculty of Applied Sciences	19
2023/2024	Faculty of Engineering	643
2023/2024	Graduate School of Education	1
2023/2024	Faculty of Education	80
2024/2025	Altıntaş Vocational School	150
2024/2025	Dumlupınar Vocational School	17
2024/2025	Faculty of Arts and Sciences	444
2024/2025	Tavşanlı Vocational School	286
2024/2025	Tavşanlı Faculty of Applied Sciences	8
2024/2025	Faculty of Education	294
2024/2025	Faculty of Engineering	750
Total		5502

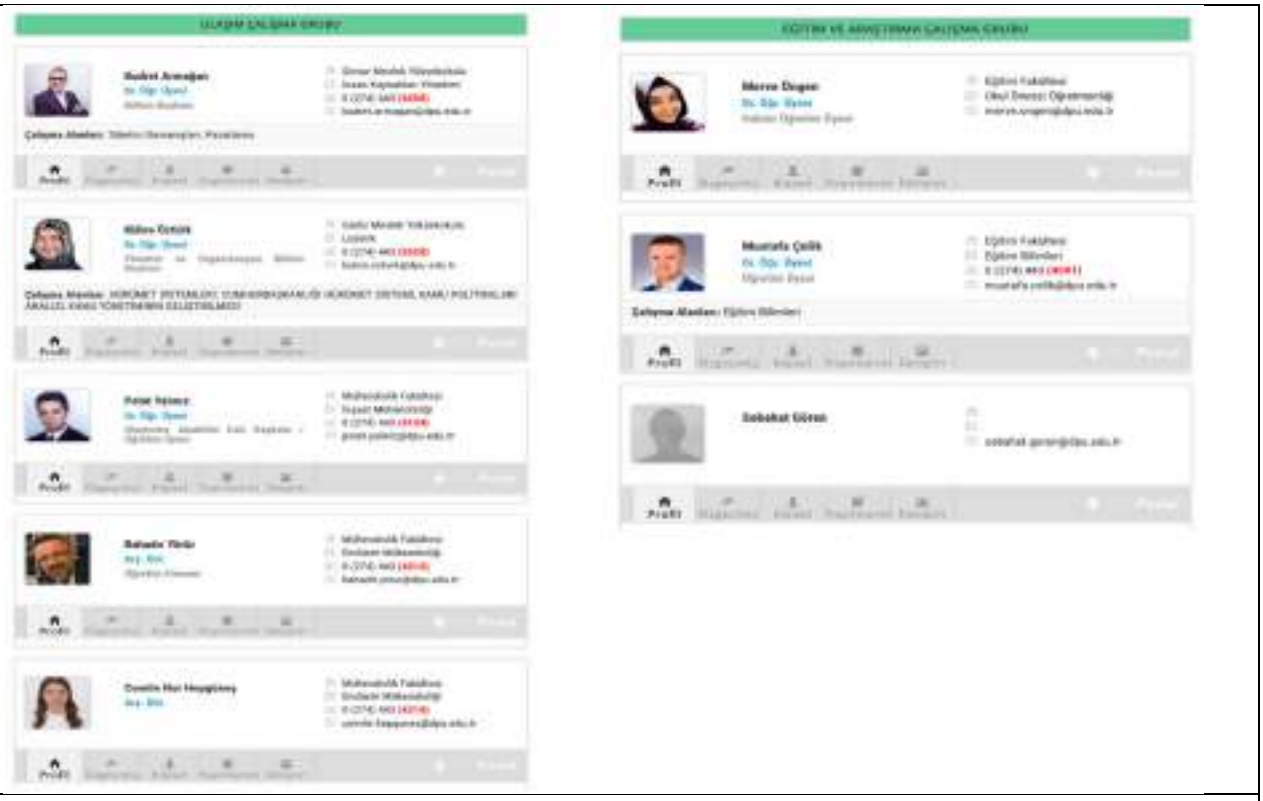
[6.23] Percentage of Graduates with Green Jobs (for the Last 3 Years)

Academic Year	Faculty/Department	Total Graduates	Number of Graduates Working in Green Jobs	Definition of Green Jobs	Data Source
2022/2023	Dumlupınar Vocational School / Alternative Energy Resources Technology Program	22	7	Renewable Energy Technician	DPU Alumni Portal
2023/2024	Dumlupınar Vocational School / Alternative Energy Resources Technology Program	13	4	Renewable Energy Technician	DPU Alumni Portal
2024/2025	Dumlupınar Vocational School / Alternative Energy Resources Technology Program	17	3	Renewable Energy Technician	DPU Alumni Portal
2023/2024	Graduate School / Mechanical Engineering (MSc)	1	1	Energy Manager	DPU Alumni Portal
2023/2024	Faculty of Education / Department of Early Childhood Education	80	1	Forest School Educator	DPU Alumni Portal
2024/2025	Faculty of Education	294	1	Waldorf School Teacher	DPU Alumni Portal
Total		5502	17		

[6.24] Availability of Units or Offices that Coordinate or Are Related to Sustainability







Examples of university leader decree of establishment and structure (Kütahya Dumlupınar University, Türkiye)

Kütahya Dumlupınar University (DPU) has recently established a Sustainability Unit within its institutional structure to coordinate and strengthen sustainability-related initiatives across the university. The unit operates under the strategic guidance of the Quality Coordination Office and in close collaboration with the Research Dean's Office, ensuring that sustainability principles are integrated into academic, administrative, and operational processes.

Within this structure, several GreenMetric subgroups have been formed to focus on specific areas such as setting and infrastructure, energy and climate change, waste management, water conservation, transportation, and education & research. These subgroups work collectively to gather data, evaluate progress, and contribute systematically to the preparation of the UI GreenMetric Sustainability Reports.

The DPU Sustainability Unit aims to create an institutional culture of environmental and social responsibility by promoting interdisciplinary cooperation, supporting sustainability-oriented research, and encouraging community engagement. Through workshops, data collection studies, and internal reporting, the unit not only ensures compliance with sustainability standards but also enhances DPU's visibility in international sustainability rankings.

Regular coordination meetings are held throughout the year to review the current status of sustainability indicators, evaluate ongoing initiatives, and identify areas for improvement. These meetings strengthen communication among GreenMetric subgroups and ensure that data collection and reporting processes remain consistent and up to date.

Its mission is to ensure that sustainability becomes an integral part of DPU's governance, education, research, and social impact strategies—thereby contributing to the United Nations Sustainable Development Goals (SDGs) and Türkiye's national sustainability targets.

[6.25] Planning, Implementation, Monitoring, and/or Evaluation of University Governance through the Utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Planning research projects, identifying resources and prioritizing projects.	Applications such as office software, graphic design programs, data analysis software	Research Projects, Publications, Funding Applications	January 2024-	Scientific Research Coordination Office
Implementation	Determination of sustainability-related research methods and implementation of data collection processes.	Using data management systems	ICT, collection, storage and analysis of large data sets	April 2024-December 2024	Scientific Research Coordination Office
Monitoring	Providing reports to regularly monitor the progress of the project and take corrective measures when necessary.	Use of analytical tools to track project progress	Project management software, data analysis tools, online collaboration platforms, survey and data collection systems, virtual laboratories, online training and seminars	Completed	Scientific Research Coordination Office
Evaluation	Gathering feedback from the team and stakeholders at the end of the project, evaluating the results and recording lessons learned.	Evaluation of effectiveness, usability, security, cost, integration, developability, performance, support	To increase the effectiveness of research, performance analysis software, survey and feedback systems, data visualization tools, online evaluation platforms and data mining techniques, etc. are used. To facilitate the analysis and interpretation of data obtained through methods	Annual	Scientific Research Coordination Office

Planning: During the Planning phase regarding sustainability, conducting environmental, social and economic impact evaluations, determining sustainability goals and developing the necessary strategies to achieve these goals. It aims to increase the long-term impacts and success of projects by using data collection and analysis tools, project management software, online collaboration platforms and systems that follow sustainability standards.

Application: In the Application phase related to sustainability, it optimizes the Application implementation and results Evaluation processes by using data monitoring systems, online reporting tools and project management software in order to adopt innovative methods to reduce environmental impacts, use resources efficiently, cooperate with stakeholders and ensure compliance with sustainability standards

Monitoring: In the Sustainability Monitoring phase, it constantly monitors the process of achieving sustainability goals by using data collection tools, performance indicators, analysis software and feedback systems to evaluate the environmental, social and economic impacts of the projects and identifies improvement opportunities.

Evaluation: In the Sustainability Evaluation phase, it determines to what extent sustainability goals have been achieved by using performance reports, data analysis tools and feedback mechanisms to analyze the impacts of projects and develops strategic recommendations for future projects.

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Supporting academic studies by providing remote access to e-books, e-journals and other digital resources	Establishing and integrating infrastructures such as VPN, proxy servers, digital library platforms, access monitoring and management software to ensure safe and fast access.	Surveys, usage statistics and academic performance data	January 2024-March 2024	Library and Documentation Department
Application	Remote access to library resources, user authentication and access to the library website via VPN or proxy, database selection and access to resources	Secure connections for users via VPN or proxy servers, use of authentication systems to access library websites and databases, and make digital resources available online	Logins, access statistics and user feedback	April 2024-December 2024	Library and Documentation Department
Monitoring	Ensuring that user access data and resource usage are regularly monitored by the library management and that access problems are reported and resolved	Tracking users' access movements with digital monitoring and reporting systems, monitoring network performance to ensure access continuity, and detecting possible access problems with automatic notifications.	Regular recording and analysis of user access data, network performance and security status of the system	Completed	Library and Documentation Department
Evaluation	To ensure that improvement suggestions are developed by analyzing performance based on criteria such as user satisfaction, access statistics and effective use of resources.	Analyzing access statistics with digital tools, collecting user feedback and evaluating access performance with reporting software and making improvement suggestions	User satisfaction surveys, access statistics and usage reports	Annual	Library and Documentation Department

VETİS (Database Access and Statistics System) - Remote access to library resources (Kütahya Dumlupınar University-Türkiye)

Planning: The Planning phase regarding sustainability includes the steps of setting goals, data collection and management, analysis and reporting, stakeholder participation, training and awareness, Monitoring and Evaluation, technological infrastructure and continuous improvement.

Application: The Application phase regarding sustainability includes data collection, analysis and reporting for the determined targets, ensuring active participation of stakeholders, implementation of training programs, establishing the technological infrastructure of the system and developing continuous improvement strategies by monitoring the results.

Monitoring: It includes determining sustainability targets, defining and collecting required data types, developing analysis methods, ensuring stakeholder participation, creating training and awareness programs, designing technological infrastructure and planning monitoring-evaluation processes.

Evaluation: The Evaluation phase regarding sustainability includes analyzing the collected data to determine to what extent the sustainability goals have been achieved, sharing the results obtained with stakeholders, reviewing the effectiveness and efficiency of the system, updating strategies when necessary, and creating feedback mechanisms for continuous improvement.

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Ensuring that the activities and programs offered to students and the university's academic and administrative processes are managed digitally	Automating student registration processes, creating course schedules, integrating statistical tools for data analysis, and developing reporting systems for student information	Establishing processes for collecting, analyzing and verifying data such as student records, academic achievements and graduation requirements	January 2024-March 2024	Student Affairs Department
Application	Facilitating students' academic and administrative processes by offering various applications such as course registration, grade tracking, advisor approval, graduation procedures, exam information, library management, event announcements, financial transactions, student support services and online forms.	Providing efficiency, accessibility and up-to-date information to students, academic staff and administrative employees with a user-friendly interface by enabling transactions such as student registration, course selection, grade tracking, graduation procedures and event announcements to be carried out online.	Processing the collected data, updating academic achievements and student records, implementing relevant processes and ensuring accuracy and reliability by regularly monitoring the results.	April 2024-December 2024	Student Affairs Department
Monitoring	Allowing students to constantly monitor their academic performance, course and exam status, graduation criteria, activities and financial situations.	Students receive feedback by analyzing their academic achievements, grades and graduation status, and review their course selections and academic goals.	Implementing regular reporting and feedback mechanisms to continuously monitor student data, academic performances and registration processes, analyze and update these data, and ensure their reliability.	Completed	Student Affairs Department
Evaluation	Ensuring that students receive feedback by analyzing their academic achievements, grades and graduation status, and review their course selections and academic goals.	Enabling students to analyze their grades, academic achievements and graduation criteria, and to monitor student development through feedback mechanisms and make necessary improvements.	Analyzing the collected data, reviewing the students' academic achievements, registration status and graduation criteria, evaluating the results obtained and developing improvement suggestions based on these results.	Annual	Student Affairs Department

Student Information System (Kütahya Dumlupınar University-Türkiye)

Planning: It starts with clearly defining sustainability goals; These goals include elements such as energy efficiency, waste management and efficient use of resources. Additionally, the data needs necessary to achieve these goals are determined and it is planned which data will be collected, how it will be analyzed and for what purposes it will be used. At this stage, developing policies and strategies on how to integrate sustainability principles within the system also has an important place. Thus, the Student Information System aims to minimize environmental and social impacts in educational processes by adopting a sustainability-oriented approach.

Application: It is the stage where the necessary steps are taken to achieve the sustainability goals determined in the Planning phase; In this process, student data is collected and analyzed, while educational programs and events on sustainability are organized. In addition, sustainability principles are integrated into course content and projects that will raise environmental awareness among students are implemented. At this stage, it is also important to establish the technological infrastructure and commission the necessary software to support sustainability applications, so that concrete steps are taken to achieve the sustainability goals of the student information system.

Monitoring: It is a phase in which the activities carried out in the Application phase and the process of achieving sustainability goals are constantly monitored; In this process, the collected data is analyzed and sustainability performance is evaluated. Determined performance indicators (for example, energy consumption, amount of waste) are monitored regularly and, in the light of this data, feedback mechanisms are established and analyzed as to whether the Applications are effective or not. Additionally, student and staff feedback is collected to identify challenges and successes in achieving sustainability goals. This stage is of critical importance for the continuous improvement of sustainability practices and the ability to make strategic changes when necessary.

Evaluation: It is a process in which the data and analyzes collected during the monitoring phase are examined in depth and sustainability performance is measured; At this stage, the results are analyzed and the level of achievement of sustainability targets is determined, taking into account factors such as student data, academic achievements and environmental impact. In addition, sustainability-related reports are prepared and shared with stakeholders (students, faculty members, management), thus enabling future strategies to be shaped based on the findings. This process is critical for evaluating the impact of Applications as well as determining improvement suggestions for the development of sustainability policies and Applications.

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Determining document management processes, clarifying elements such as which documents will be transferred to the digital environment, how these documents will be classified and how access authorizations will be made.	It begins with analyzing existing document processes to determine the needs of the system; In this process, elements such as which documents will be digitized, how these documents will be classified and which databases will be used are planned in detail.	Determining the necessary documents, records and processes to increase the transparency and accountability of document management processes	January 2024-March 2024	Student Affairs Department
Application	Ensuring the creation, scanning and classification of documents in digital environment in line with the targets determined during the planning process	Commissioning the necessary software and hardware infrastructure to create, scan and store documents in digital environment	Creation and management of evidentiary documents determined in the planning phase in digital environment	April 2024-December 2024	Student Affairs Department
Monitoring	Analyzing document access frequency, user activity, document updates and system performance in order to continuously monitor system usage and performance.	Using data collection and analysis tools to continuously monitor system performance and user interactions	It begins with the aim of continuously monitoring the use and security of evidentiary documents; In this process, access records of documents, change history and user activities are monitored.	Completed	Student Affairs Department
Evaluation	It starts with the analysis of the data collected in the Monitoring phase; In this process, the results obtained by measuring the effectiveness of document management processes, user satisfaction and system performance are reviewed.	It begins with the use of data analysis and reporting tools to measure the performance and effectiveness of the system; In this process, the strengths and weaknesses of the system are determined by analyzing metrics such as document access statistics, user behavior and system response times.	Reviewing the accuracy, reliability and validity of evidentiary documents	Annual	Student Affairs Department

Electronic Document Management System (Kütahya Dumlupınar University-Türkiye)

Planning: It starts with determining the digitalization, archiving and management processes of documents, in line with the goals of minimizing environmental impacts and efficient use of resources; In this process, elements such as which documents will be transferred to digital media and how these documents will be classified are planned in detail. Additionally, digital documents are designed to contribute to sustainability goals such as reducing energy consumption, paper use and waste management. At this stage, it is also important to determine the infrastructure, software and hardware needs for the implementation of EBYS and to prepare user training programs. Integrating sustainability principles into the system helps prevent possible problems in the future and optimize the environmental impact of the system.

Application: It starts with taking the necessary steps to achieve the sustainability goals determined in the Planning phase; In this process, paper consumption is minimized by creating, scanning and classifying documents digitally. Additionally, document access processes are automated, making energy consumption and resource usage more efficient. While training is provided to users to increase sustainability awareness, applications are developed to take environmental impacts into account in document management. In addition, by integrating the necessary protocols and backup systems for the security of digital documents, data integrity is ensured and the sustainability of the system is increased. This phase plays a critical role in reducing the environmental impact of the EBMS and achieving sustainability goals.

It starts with constantly monitoring the impact of the sustainability targets achieved during the Application phase; In this process, metrics such as usage statistics of digital documents, energy consumption, paper savings and waste management are analyzed. Regular reports are made to evaluate to what extent the system has reached the criteria set to reduce environmental impact. By collecting user feedback, information is obtained about the contribution of document management processes to sustainability goals. In addition, the effectiveness of sustainability applications is increased by identifying possible problems and improvement areas. This stage is of critical importance in minimizing the environmental impacts of the system and ensuring progress towards achieving sustainability goals.

Evaluation: It starts with analyzing the data collected during the monitoring process and determining the level of achievement of sustainability goals; At this stage, metrics such as the use of digital documents, paper savings, energy consumption and waste reduction are reviewed and the environmental impact and efficiency of the system is evaluated. The findings obtained are reported and shared with stakeholders in order to measure the effectiveness of sustainability policies and applications. Additionally, strengths and weaknesses in achieving sustainability goals are determined and improvement suggestions are developed accordingly. This stage plays a critical role in optimizing the sustainability performance of EBYS and guiding future Applications.

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Determining user needs and goals, analyzing the infrastructure requirements of the system, developing content strategies and increasing user experience	Evaluation of various software and hardware solutions in order to determine the needs of the system and provide appropriate services to the target audience	User needs analyses, previous system performance reports and user feedback	January 2024-March 2024	Information Technologies Department
Application	Establishing the technical infrastructure of the portal, designing user interfaces and integrating the contents into the system in line with the targets determined during the planning phase.	Establishing the technical infrastructure of the portal and integrating the necessary software	Technical solutions, user experience tests and performance measurements used during the installation and integration of the system	April 2024-December 2024	Information Technologies Department
Monitoring	Analyzing user statistics, access data and system errors to continuously monitor performance and user interactions	Integration of advanced analytics and monitoring tools to continuously monitor the portal's performance and user interactions	User activities, access frequency, processing times and system errors	Completed	Information Technologies Department
Evaluation	The effectiveness of the system is measured by reviewing usage statistics, user satisfaction surveys and feedback.	Integration of various software tools for analysis and reporting of collected data	User statistics, performance reports, security test results and user satisfaction surveys	Annual	Information Technologies Department

Planning: In this first stage, sustainability goals and strategies are determined. Long-term goals are established in line with the environmental, social and economic responsibilities of the organization. Elements such as resources, budgets and manpower are planned in line with these goals. At the same time, risks and opportunities in the field of sustainability are evaluated and an action plan is created. This stage is considered the foundation of the sustainability process.

Application: It is the stage where the strategies determined in the planning phase are put into practice and the projects are implemented. At this stage, projects such as the use of environmentally friendly technologies, the adoption of energy-saving methods, and the implementation of waste management policies are put into action. Additionally, social responsibility projects are started at this stage. The implementation phase is a critical step for the integration of sustainability strategies into daily operation.

Monitoring: The performance and effects of projects initiated during the Application phase are monitored. This monitoring process is carried out to observe to what extent sustainability goals are

achieved, the efficiency of the resources used and how environmental impacts are reduced. At the same time, the data collected during this process is recorded to be used for the later Evaluation phase. Monitoring is important to detect any deviations early and take corrective action where necessary.

Evaluation: In this final stage, the data collected during the Monitoring process is analyzed. The results obtained reveal how close the sustainability goals are being achieved, how effective the projects are, and the improvements that need to be made in the future. Based on the evaluation results, strategies are reviewed and new targets are set if necessary. This phase completes the sustainability cycle and provides feedback to ensure continuous development and improvement.

Kütahya Dumlupınar University Official Website (www.dpu.edu.tr)
This system shares news, announcements, events, and information about university units. Updates and revisions requested by the Corporate Communication Coordination Office have been implemented on the main page (Announcements, Events, and Foreign Languages sections).

TR

EN


DUMLUPINAR
DPU au sommet à nouveau à TEKNOFEST 2024

FR


DPU في تطابق السنة الثقافية التركية فعاليتان في جامعة
المجرية

AR


DUMLUPINAR
DPU auf dem Gipfel erneut bei TEKNOFEST 2024

DE

Units Project

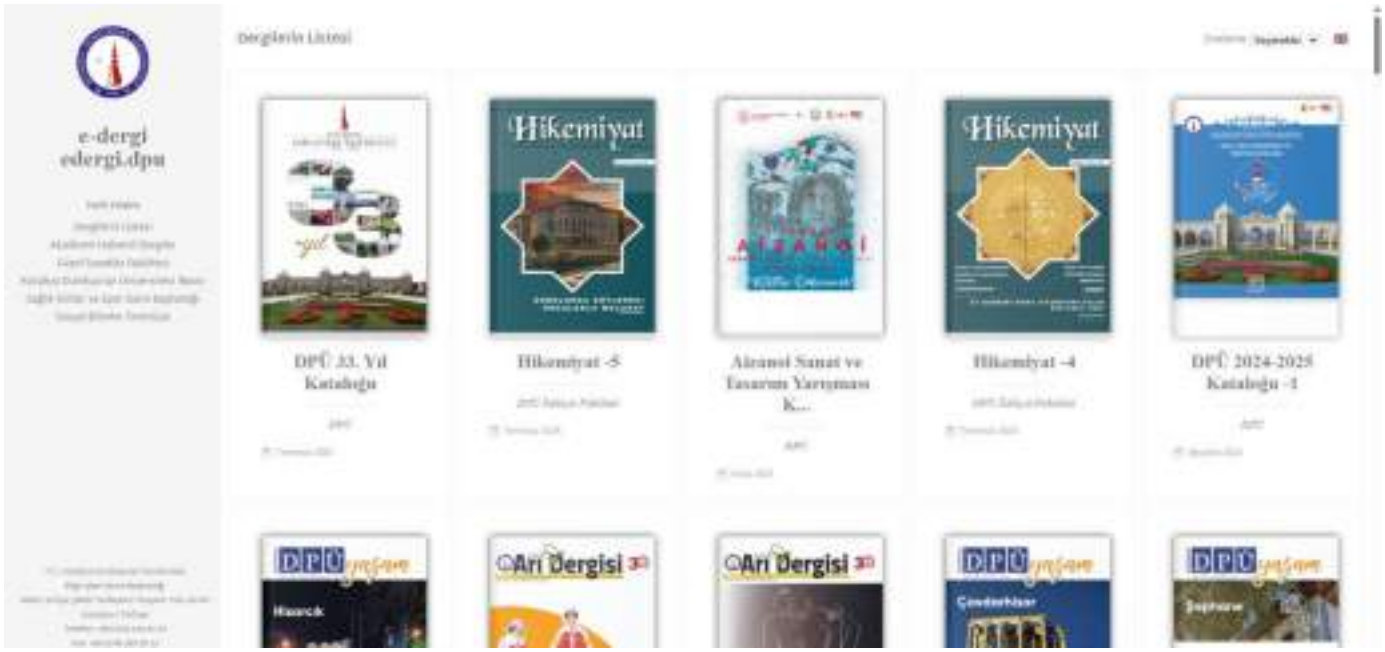
Support was provided for login/logout operations of web administrators of university units, training of new administrators, registration of newly created sites, and technical maintenance of existing ones. Updates and improvements were made to the system (mobile SMS verification added to the admin login).

Dumlupınar University Mobile Application

An upgraded version of the university's mobile application was developed, including library and student information system (OBS) integration. The iOS version was also developed, and adjustments and updates were made to the application's content.

Electronic Journal System (edergi.dpu.edu.tr)

An automation system developed for creating, publishing, and archiving electronic journals enables the transfer of university publications (brochures, catalogs, etc.) to digital format, ensuring smooth accessibility on all devices.



Google Maps Integration

Work was carried out with Google to officially and accurately mark campus buildings, photos, and basic information on Google Maps. The integration has been largely completed.

KPS

This software integrates services such as OSYM Exam Inquiry and YÖK services. Updates and improvements have been made to systems received from ministries, including YÖK and NVİ services.

Cafeteria Stock Tracking System (ystok.dpu.edu.tr)

A system that monitors inventory entries, exits, and reporting of supplies used in student and staff cafeterias. Updates and modifications requested by the Health, Culture, and Sports Department have been implemented.

Workplace Training Management System (ime.dpu.edu.tr)

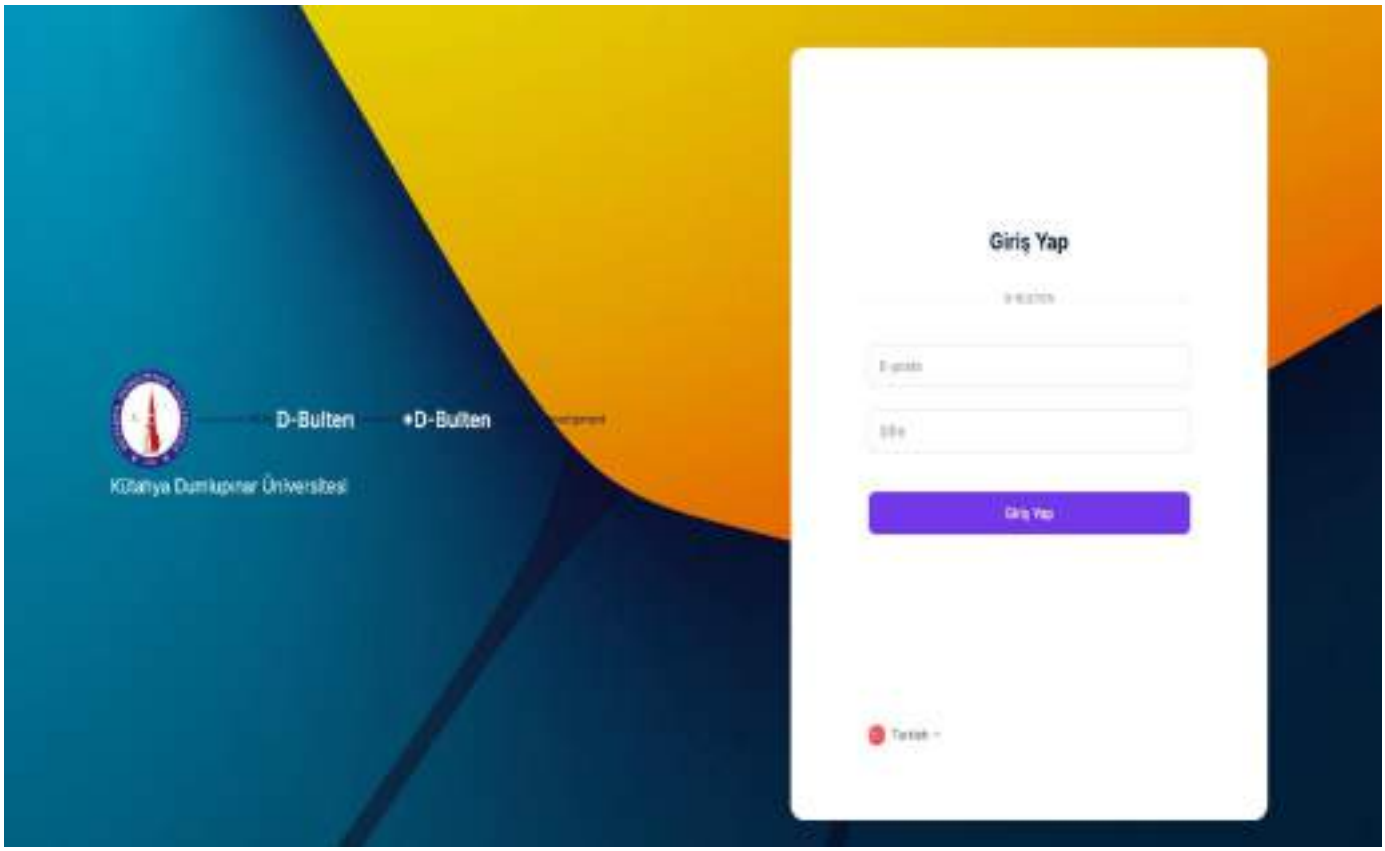
A system enabling online internship applications for associate and undergraduate students, matching them with companies according to quotas, and tracking their attendance and daily reports. Development is ongoing.

Ethics Committee Application Management System (etikkurul.dpu.edu.tr)

An online platform enabling applications and follow-ups for the Ethics Committees under the Scientific Research and Publication Ethics Board—specifically for Social & Human Sciences and Science & Engineering committees—launched on 01.01.2025

d-bulten (https://bulten.dpu.edu.tr/)

A digital bulletin and content management system developed for Dumlupınar University that collects and displays university news (manual and dynamic RSS), announcements, and agenda items in a centralized platform (digital TV).



(DOKO) (basvuru.dpu.edu.tr)

A system created for international student registration, featuring modules for entrance fees, exams, undergraduate, and certificate/participation documents. Payments are processed via virtual POS, and all stages are securely managed based on authorization. The system's modular structure allows expansion to manage various application processes beyond foreign student admissions.

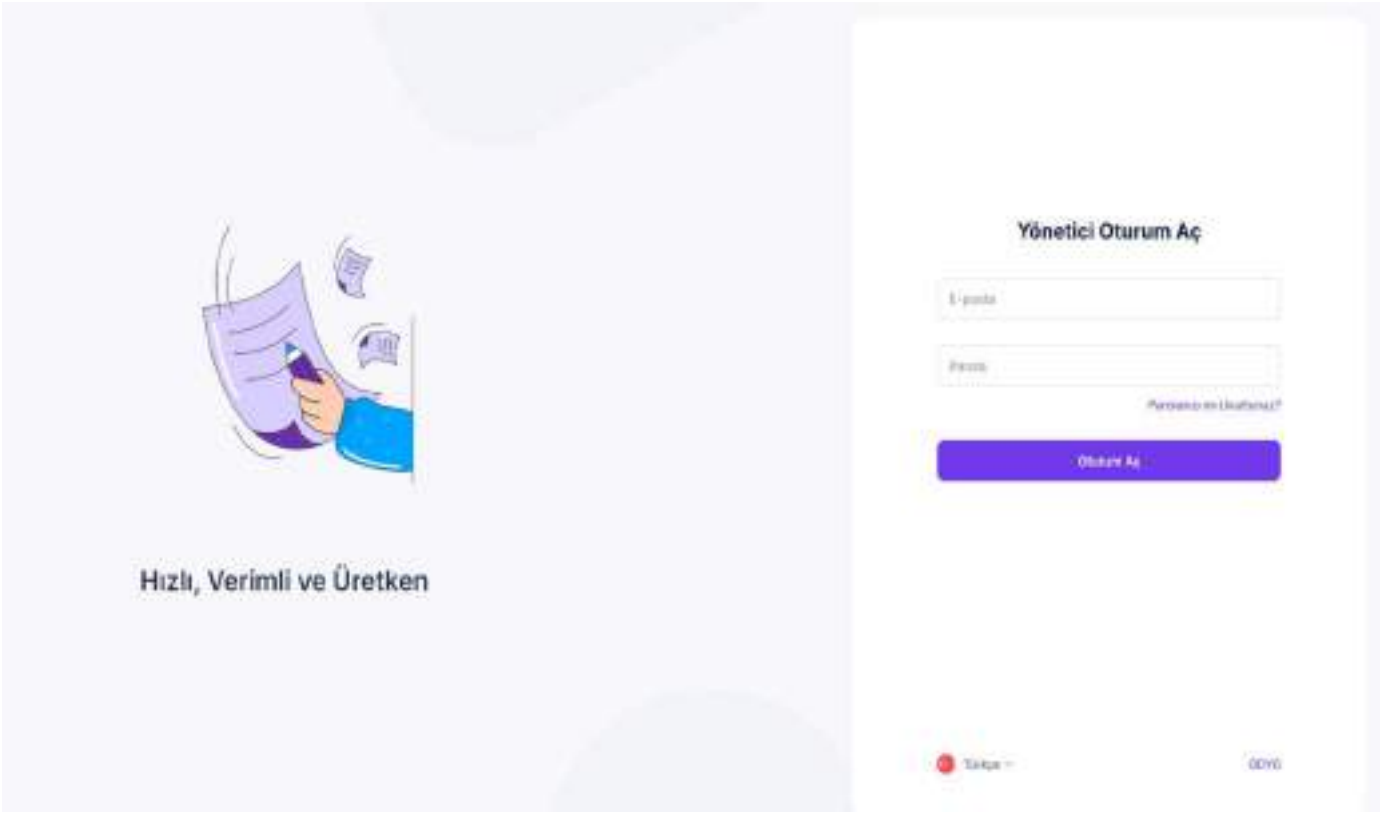
D-Science-Gate (https://evliyacelebi.dpu.edu.tr)

A hosting and process management system enabling academic journals to manage technical control, editorial, and peer-review processes electronically, and to publish articles online. The D-Science Gate Project aims to contribute significantly to Kütahya Dumlupınar University's academic publishing ecosystem by providing a digital platform for its own journals and other national/international journals lacking adequate infrastructure.

The project ensures compliance with international indexing standards, supports the university's quality initiatives, and contributes to its global ranking objectives. Initially focused on managing Kütahya Dumlupınar University journals digitally, the long-term goal is to transform the article database into an academic index—enhancing accessibility and providing a major data resource for academic publishing in Türkiye.

DPÜ-Form (beta-form.dpu.edu.tr)

A dynamic form system designed to resolve requests such as surveys, malfunctions, and demands quickly and effectively. Continuously updated to meet unit/user needs, it ensures efficiency and minimizes inconvenience. Beyond typical form operations, DPÜ-Form handles diverse functions—from administrative selection surveys to inter-institutional transfer applications—and serves not only university students and staff but also external users through public-accessible forms.



[6.26] Impact of Education and Research Programs in Supporting the Sustainable Development Goals

Sustainability-Related Activities at Kütahya Dumlupınar University (2022–2024)

Between 2022 and 2024, Kütahya Dumlupınar University (DPU) has organized a wide range of activities focusing on sustainability, environmental awareness, and social responsibility. A total of 153 events were held during this period, distributed as follows: 52 in 2022, 41 in 2023, and 60 in 2024.

The activities were mainly centered around the following themes:

- **Environmental and Nature Awareness:** Tree planting events, World Water Day and World Bee Day activities, Blue Flag awards, nature walks, waste recycling initiatives, and the establishment of an alternative energy laboratory.
- **Health and Addiction Prevention:** Green Crescent (Yeşilay) events, seminars and conferences on addiction prevention, "Narko Youth" training programs, and activities promoting healthy nutrition and public health.
- **Awareness and Inclusion for People with Disabilities:** "Accessible Hobby Workshops," events for Disability Week, and workshops such as *"Disabilities Are Not Barriers to Life."*
- **Disaster and Emergency Preparedness:** Disaster awareness training sessions and evacuation and emergency drills.
- **Women's Rights and Gender Equality:** Seminars on preventing violence against women, women's rights panels, and events on positive discrimination.
- **Culture, Art, and Education:** Workshops and symposiums on history, culture, and tourism; ceramic and tile-making workshops; short film festivals; museum education programs; and science and art symposia.
- **Career, Entrepreneurship, and Digital Education:** Project-based thinking seminars, career planning days, software camps, and technology festivals.
- **Social Engagement and Community Service:** "Clothes on the Hook" donation campaigns, animal shelter visits, charity fairs, and international student festivals.

These activities strengthen the university's commitment to sustainable development and social responsibility, while fostering environmental, social, and cultural awareness among students and the wider community. Overall, they demonstrate Kütahya Dumlupınar University's direct contribution to the UN Sustainable Development Goals (SDGs), particularly SDG 3 (Good Health and Well-being), SDG 4 (Quality Education), SDG 5 (Gender Equality), SDG 10 (Reduced Inequalities), SDG 11 (Sustainable Cities and Communities), SDG 13 (Climate Action), SDG 15 (Life on Land), SDG 16 (Peace, Justice and Strong Institutions), and SDG 17 (Partnerships for the Goals).

Student clubs that organize sustainability-themed activities

Kütahya Dumlupınar University, through student clubs that organize sustainability-themed activities, contributes to students' personal development while increasing sensitivity toward the environment and society.

The activities organized by these clubs such as sports events, bird feeder projects, astronomy seminars, technology festivals, educational programs for children, social responsibility projects and taking nature photograph competitions contribute to various Sustainable Development Goals (SDGs).

For example, sports and children's activities contribute to SDG 3 (Good Health and Well-being); educational seminars and technical visits support SDG 4 (Quality Education); events for International Women's Day (March 8) promote SDG 5 (Gender Equality); and organizations such as Cyber Summit and BBT Hackathon are evaluated within the scope of SDG 9 (Industry, Innovation, and Infrastructure). In addition, events for the International Day of Persons with Disabilities and activities conducted with disabled students contribute to SDG 10 (Reduced Inequalities); environmentally conscious projects support SDG 15 (Life on Land); and community panels and awareness-raising activities serve SDG 16 (Peace, Justice, and Strong Institutions).

In this way, Kütahya Dumlupınar University, through the active participation of its students, helps to spread sustainability awareness and makes a direct contribution to national and international Sustainable Development Goals (SDGs).

Cultural events in campus

Kütahya Dumlupınar University offers rich cultural experiences to students and the community through various cultural events organized on its campus. The university has aimed to enhance students' artistic, historical, and cultural awareness by organizing more than 20 cultural events in total, with over 10 held each year.

Example events include the Hisarcık History, Culture and Tourism Workshop, Tavşanlı History, Culture and Tourism Workshop, International Student Festival, Museum Education Workshop, Aizanoi Ceramic and Tile Design Competition, International Anatolian Jewelry and Accessories Congress, and the Cinikent Education Center visit. In addition, theater performances, cinema screenings, photography and art exhibitions, and various cultural workshops have been offered for student participation.

These activities are carried out with the aim of increasing cultural awareness, supporting artistic skills, and strengthening cultural cooperation at both national and international levels.

The cultural events organized on the campus of Kütahya Dumlupınar University are intended to raise students' artistic and cultural awareness, promote social participation, and preserve cultural heritage. These activities are directly related to the Sustainable Development Goals (SDGs) of Quality Education (SDG 4), Gender Equality (SDG 5), Reduced Inequalities (SDG 10), and Sustainable Cities and Communities (SDG 11).

University sustainability program(s) with international collaborations

Kütahya Dumlupınar University made a strong contribution to the Sustainable Development Goals (SDGs) throughout 2024 through its educational, research, and cultural activities. Within the framework of international collaborations, the university's sustainability programs and contributions have focused on promoting a safety culture in mining, enhancing digital and inclusive learning opportunities, and reducing inequalities through projects such as STRIM and IIDEMIC.

International conferences, symposiums, and panels — such as the ELT, EFL & ELL Conference and events on Turkish–Hungarian and Türkiye–Tunisia relations — have contributed to intercultural understanding, peace, gender equality, and the strengthening of global partnerships. Moreover, events like the "Gaza Through the Eyes of Two Turkish and One Palestinian Students" exhibition and the International Student Festival have promoted social awareness, cultural diversity, and solidarity among students. The Anatolian Jewelry and Design Congress, which emphasized sustainable practices in art and design, has drawn attention to environmental sensitivity as well.

All these activities demonstrate that Kütahya Dumlupınar University contributes to the Sustainable Development Goals not only at the local but also at the global level. Through its projects and initiatives, the university makes concrete contributions to SDG 3 (Good Health and Well-Being), SDG 4 (Quality Education), SDG 5 (Gender Equality), SDG 8 (Decent Work and Economic Growth), SDG 9 (Industry, Innovation and Infrastructure), SDG 10 (Reduced Inequalities), SDG 11 (Sustainable Cities and Communities), SDG 13 (Climate Action), SDG 16 (Peace, Justice and Strong Institutions), and SDG 17 (Partnerships for the Goals).

In addition, through its Erasmus+ KA171 projects, the university continues to strengthen its partnerships with institutions in various countries, actively contributing to the development of sustainable education, research, and innovation networks at the international level.

CONCLUSION

Kütahya Dumlupınar University (DPU), as an education-oriented institution dedicated to training individuals with professional qualifications and a deep sense of responsibility toward science, society, and the environment, continues to strengthen its role as a sustainable university. Environmental sensitivity and social responsibility are among the university's fundamental values. In line with these core principles, DPU conducts a wide range of educational, scientific, cultural, and community-oriented activities that contribute directly to both local and global sustainable development goals.

Through the active involvement of the rector, vice-rectors, academic and administrative staff, and students, the university has implemented comprehensive programs that support the United Nations' Sustainable Development Goals (SDGs). These include initiatives for energy efficiency and renewable energy production, waste reduction and recycling, sustainable water management, green transportation, biodiversity conservation, quality education, and social inclusion.

DPU's firm commitment is evidenced by the establishment of a 180 kW photovoltaic solar power plant and ongoing projects, such as the 1 MW solar facility and the 2 MW wind turbine, which aim to diversify renewable energy generation further. The implementation of heat pump systems, digital monitoring technologies, and rainwater harvesting infrastructure demonstrates an integrated approach to resource efficiency and climate resilience. The university's comprehensive waste management program (including recycling, composting, and e-waste initiatives) reflects a deep institutional dedication to the circular economy and responsible consumption.

Campus mobility has been significantly enhanced through the implementation of bicycle lanes, electric vehicle charging stations, pedestrian-friendly zones, and electric bus services, all of which contribute to lower carbon emissions and promote healthier lifestyles. Social sustainability is supported through activities such as the Young Green Crescent Society, which raises awareness about public health and addiction prevention, as well as through student-led sustainability clubs and events that foster environmental and cultural awareness among the university community.

Looking ahead, DPU aims to further enhance its sustainability performance by expanding green spaces and biodiversity areas across its campuses, increasing the production and use of renewable energy, strengthening institutional collaboration and budget allocation for sustainability projects, and integrating sustainability-focused courses and lifelong learning programs into all levels of education. Through these ongoing efforts, the university aims to create a more environmentally friendly, socially responsible, and resilient campus that aligns with the United Nations' Sustainable Development Goals.

With these ongoing and planned efforts, Kütahya Dumlupınar University reaffirms its determination to become a model institution in sustainability (locally, nationally, and internationally) by promoting a culture of environmental stewardship, innovation, and social responsibility that aligns with global sustainability standards.