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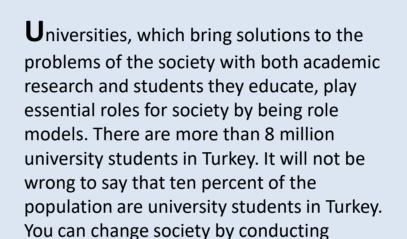
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participation-based projects at universities.

Bursa Uludag University has an immense sphere of influence with over 70 000 students and 6 000 staff. We launched the Sustainable Campus Project in the April of 2021 with this consciousness and responsibility. We defined our sustainability vision as "Being a university that lives sustainability in all activities such as research, education and campus operations." We included "being a leader in environmental protection, sustainability, and restoration" into our core values.



The year we left behind was a year that we planned our sustainability steps despite the pandemic that has captured the whole world. On the one hand, we served the society for the struggle with the pandemic; on the other hand, we maintained our educational and research activities without interruption. We continued walking towards sustainability at the same time. The upcoming year will be a new year full of new sustainability activities with our students and staff and a year that we will fully serve sustainable development goals.

I am delighted to share with you this report that summarizes some of our activities towards sustainability. You will see a reflection of our energy and enthusiasm in the report. I wish you to participate in our excitement and believe that "change" is possible.

Prof. Dr. Ahmet Saim KILAVUZ
Rector

Message from the Office of Sustainability

It gives us great pleasure to see that the Sustainable Campus Project of Bursa Uludag University, which we started in April 2021, is growing day by day. We had an uneasy thought when we started that was whispering as "There is too much thing to do." However, this thought evolved to the comforting feeling that "We know that we have drawbacks; however, whatever we do will be towards sustainability and will add value to life." Our real power comes and will come from the support of the campus community comprised of our students, staff, and partners towards sustainability.

We have a dream! Our dream is to see the Bursa Uludag University campus evolved into a fully sustainable campus. It is a campus dream where the campus society feels like home and protects it as if it were home. It is a campus dream where the visitors leave the campus with pleasant feelings and new sustainability ideas.

We believe that beautiful things have high contagiousness. The beautiful ideas growing within the campus borders will reach and influence the public for an environmental-friendly life. May our steps, which are small towards global sustainability but very meaningful for us, have significant influences.

BUU Office of Sustainability



Project ambus Ü ustainable S Story

Sustainable Campus Project is originated from the vision of Bursa Uludağ University (BUU). The BUU Sustainable Campus logo is inspired by the logo of **Bursa Uludağ University and** carries its components. The hexagonal shapes within the BUU logo appear as pentagons in BUU Sustainable Campus logo. Pentagons not only represent the components of our university but the 17 sustainable development goals as well. These pentagons that are held within the BUU sustainable campus lettering are so to close a circle. This circularity reflects the main aim of the sustainable campus project.

The green color of one of the pentagons mainly draws attention. This green color references the unique nature of our university and underlines the fact that environmental development forms the basis of all development models. The arrows over the green pentagon remind the natural assets of our university and evoke circularity. The middle arrow that shows a

move ahead is an extension of the continuous improvement understanding of our university.

Circularity is about returning the givings of the planet after circularly using them without wasting. The common saying in our language, "giving the one comes from soil to the soil," summarizes this circularity. Circularity verbalizes an understanding that natural resources are decently and adequately used, not wasted, in an ecosystem model. In that understanding, waste is regarded as raw material, and a heavy burden is not imposed on planet Earth that it can not carry, and all the living things and components of life are connected as if with a chain.

The main aim of the sustainable campus project is to take the necessary steps towards being a university that can sustain itself, achieve the environmental, social, and economic development goals at the same time, and lead society while moving towards this aim.





Bursa Uludag University (BUU) at a glance

1970 Bursa Medical School established.

The university officially founded.

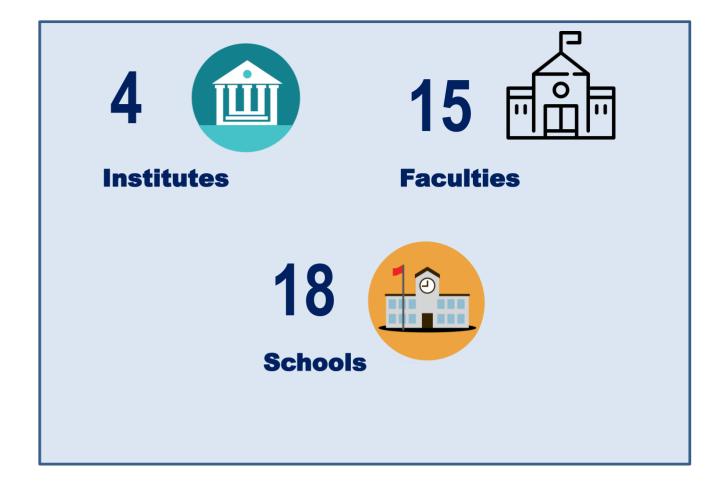
Name: Bursa University

The university renamed as "Uludag University"

The university renamed as "Bursa Uludag University"

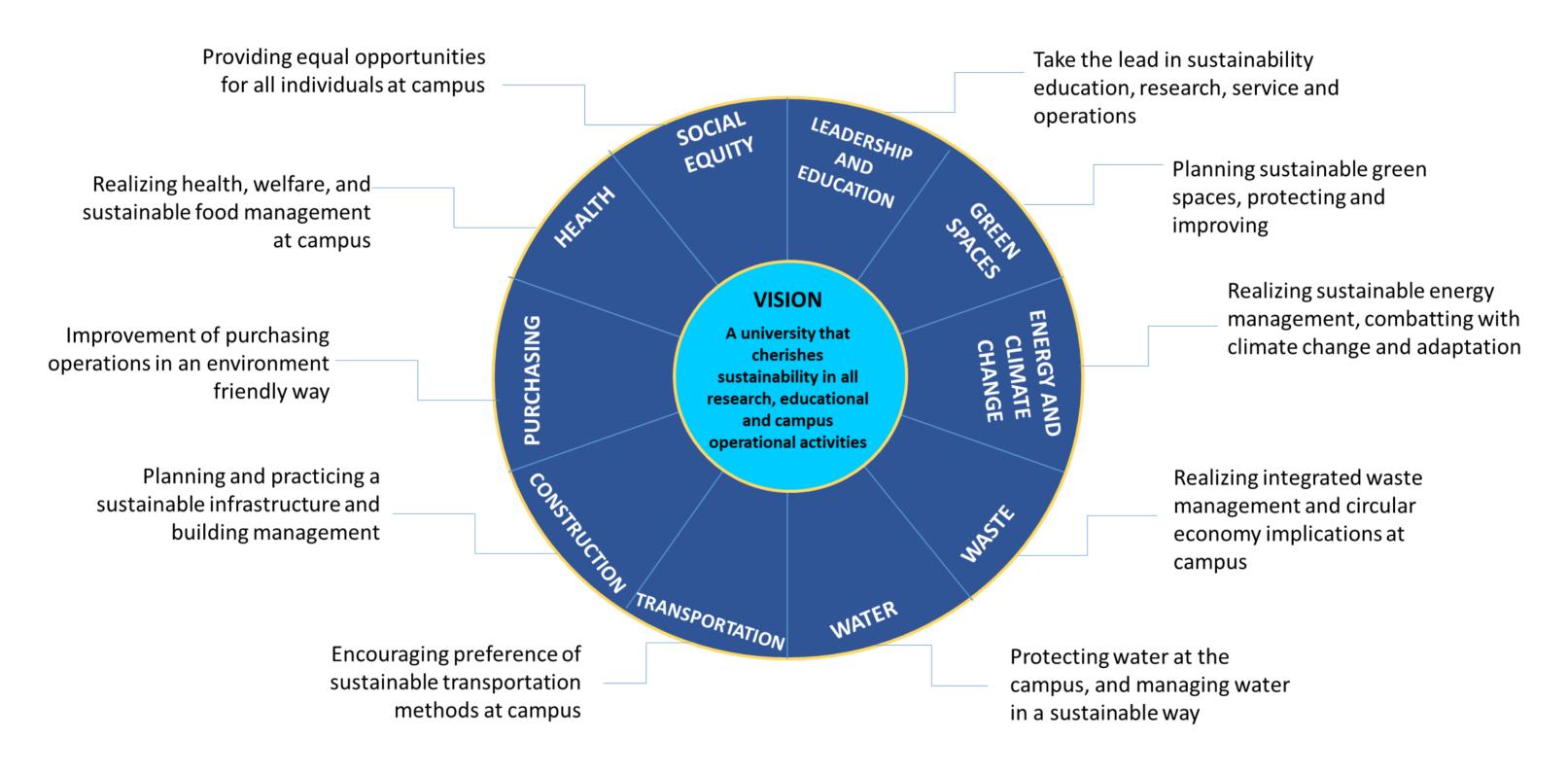


1173 **Educational Members Research Assistants** 1906 **Administrative staff Undergraduate Students Graduate Students**





BUU's Sustainability Approach



Bursa Uludag University set the goals towards sustainable development

Highlights







55%



21%



3

9





of the campus area is covered with forests.

use of energy efficient lamps at the campus buildings

endemic plant species at the campus Wildlife protection: 90%

9%





10+





10+



reduction in electricity usage in the last year

number of innovative programs during Covid-19 pandemic local food products produced by the university

Zero waste certificate





961875 m³



25%

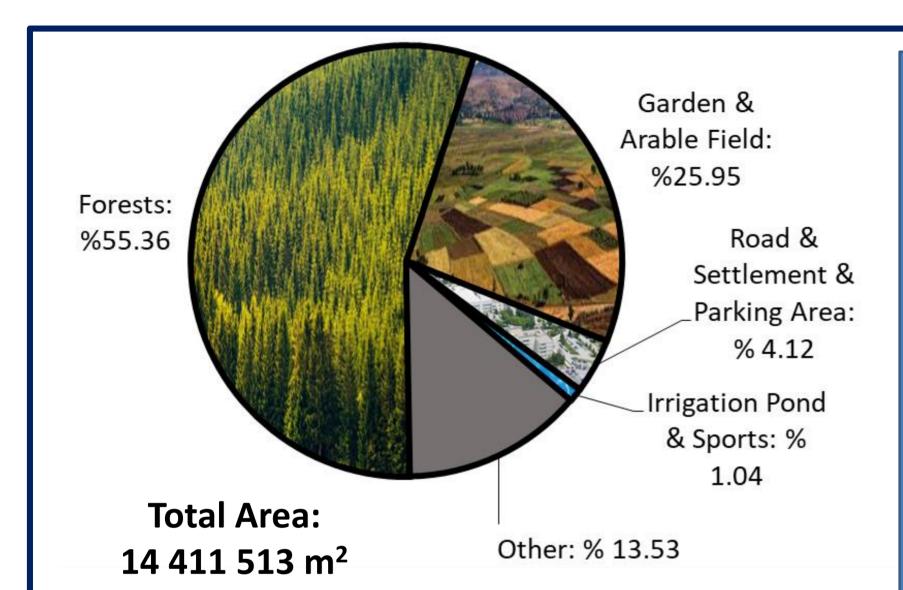


X

participation in the national zero waste project

water consumption in the last year

share of sustainability in all courses



known to value both the nature and the quality of life of humans and other living beings in these settlements. Green spaces are one of the main factors that impact the quality of life. It is essential to have and sustain green spaces in a protection-and usage balance towards the sustainable development

goals. Green spaces are necessary for life.

Bursa Uludag University is one of the luckiest universities regarding the existence of green spaces. 55% of the 14.41 km² total area is composed of forests. Besides, 26% is covered with gardens and arable fields.

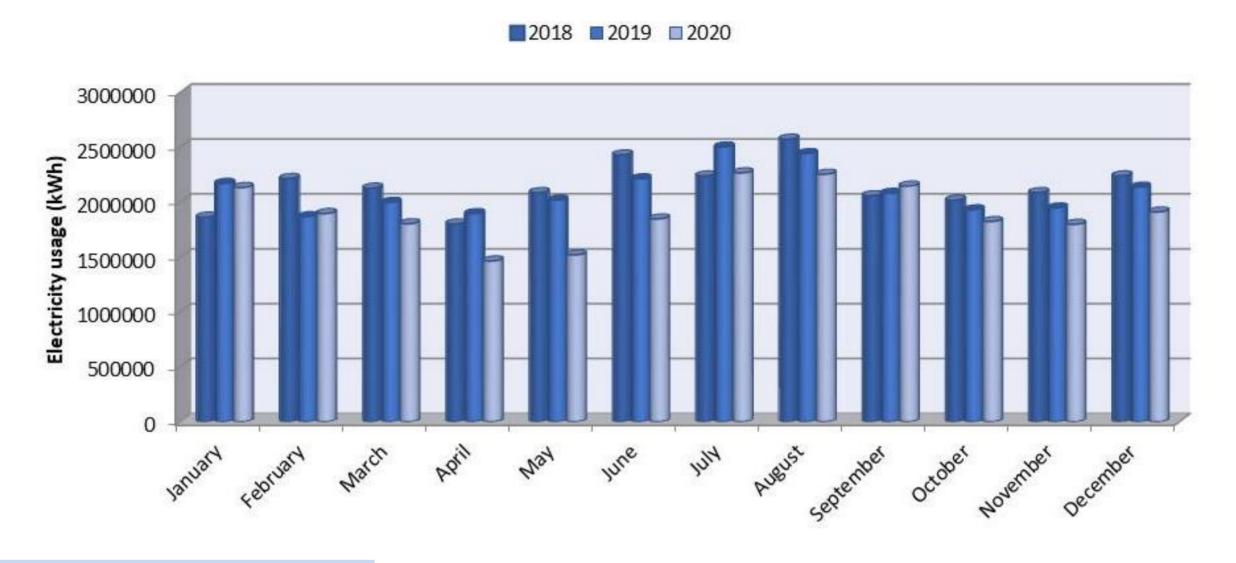
Settling & Infrastructure

Forest Vegetation Area:

7 977 737 m²



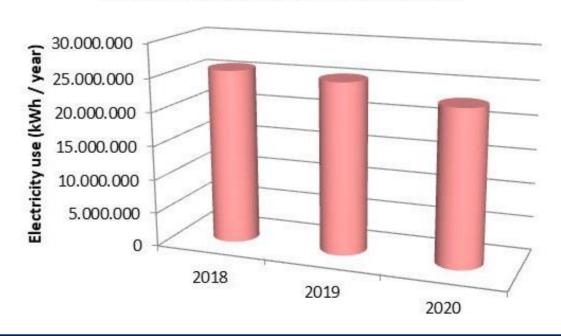




The total electricity usages at Bursa Uludag University Campus in 2018, 2019, 2020 were 25 749 389 kWh, 25 211 475 kWh, and 22 871 532 kWh, respectively.

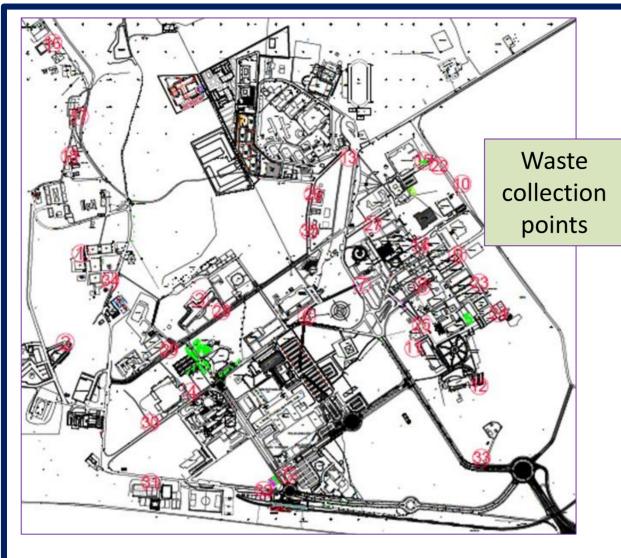
Electricity is used for lighting, cooling, and laboratory appliances. 9% reduction was recorded in the electricity usage last year.





Energy





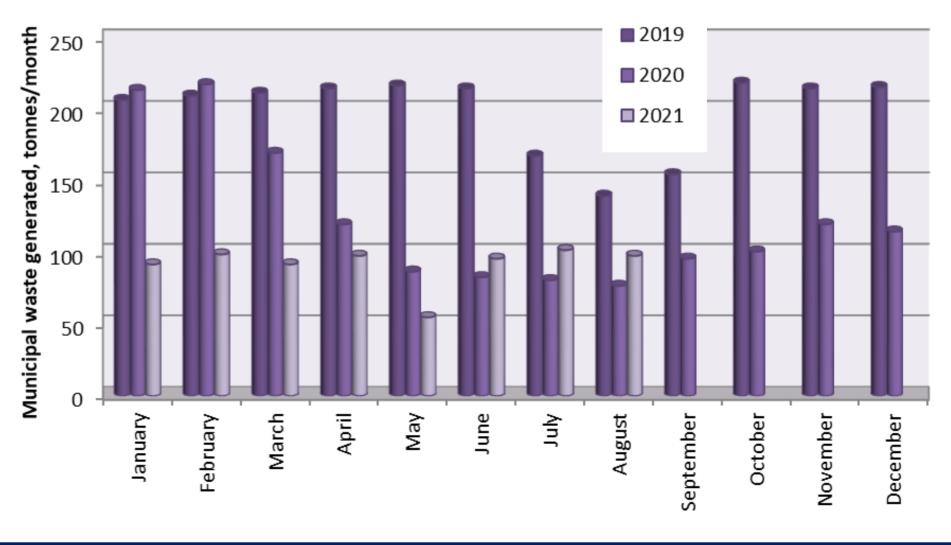
The Zero Waste Project in
Turkey initiated by the
Ministry of Environment and
Urbanization in 2017 has
evolved into a nationwide
campaign over the past four
years. Zero waste regulation
was published and started to
be applied by the public
institutions in Turkey.

Bursa Uludag University
fulfilled the criteria of Zero
Waste project and received
the Zero Waste certificate. O
special Waste Division was
established to manage
recycling program within the
campus. The Zero Waste
Project run by the university
is developing day by day with

many recycling programs within the campus. The amounts of municipal waste generated were in 2019 and 2020 were 4408 and 3502 tons, respectively.

Waste





There is a plan to improve the rainwater harvesting system for the buildings at the campus. It will be started with the Environmental Engineering Department building. The rainwater will be used within the building (toilets and cleaning purposes) and irrigation of the garden of the building.

Bursa Uludag University's wastewater line is connected to the city's sewerage system. The plant was designed according to the modified five-stage Bardenpho process. The treatment process includes screening, grit removal,

selector tank, and anaerobic-anoxic-aerobicanoxic-aerobic tanks (a fivestage Bardenpho process) accompanied by a subsequent clarifier. The sludge treatment consists of sludge screening and homogenization followed by mechanical thickening and dewatering and lime stabilization. The treated wastewater is discharged into the Marmara Sea. Unfortunately, there is no recycling program for the wastewater generated by the university.

Water consumed at the campus in 2020 is 961 875 m³.

Water consumed, m³/month 90.000 80.000 70.000 60.000 50.000 40.000 30.000 20.000 10.000 0 2020

Water



Rainwater harvest at the campus

100.000



Bursa Uludag University pond was constructed in 2002. The volume of the pond is 0.69 hm³. The pond serves irrigational purposes within the main campus. All of the gardens and arable fields within the campus are irrigated using the water in the pond. The pond harvests rainwater.

Plant Conservation

The flora at the main campus of Bursa Uludag University is under conservation. 252 species of 219 genus from 59 families were detected. The phytogeographic regions of the species were determined as Mediterranean (22%), Euro-Siberian (10%), Irano-Turanien (1%), and Euxine (0.08%). The families with the highest number of species are Asteraceae, Fabaceae, Lamiaceae, Liliaceae, Boraginaceae, Poaceae. 9 of the 252 species at the campus area are endemic.

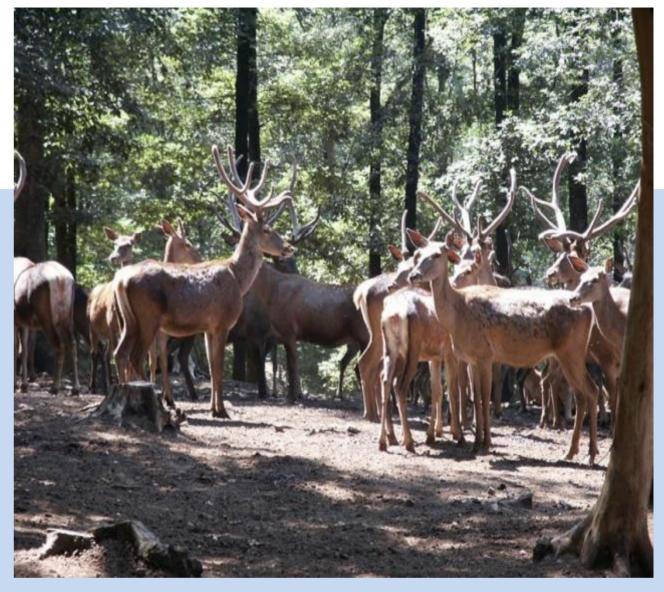
Biodiversity



There is a special conservation and cultivation zone for medical and aromatic plants, which covers an area of 1000 m². Medical plants, spices plants, perfume and cosmetic plants, dye plants, onion plants and shrub type plants are cultivated at this area. This area is being protected and used for research and educational purposes.







Animal and Wildlife Protection

A special conservation program was developed at Bursa Uludag University Main Campus for Red Deer, which is the biggest deer species in the world and biggest land mammal in Turkey. An area of 720000 m² is dedicated as a conservation zone for Red Deer at the campus. Health service is provided by the Faculty of

Veterinary and Animal Hospital of Bursa Uludag University.
Besides the deer, there are also other animal types such as coyotes, fox, squirrels, stoats, hedgehogs, and many reptiles and bird species that live at the main campus. Health services for these animals are given by the Animal Hospital at the campus.



Transportation



Although the university does not provide the bicycles for now, there is a plan to improve the cycling program and use of other zero-emission vehicles within the campus.



Vehicle	Total Number/year
Car managed by the university	46
Cars entering the university	7260
Motorcycles entering the university	400
Total	7706

Several local foods such as milk, yogurt, cheese are being produced by the Faculty of Veterinary Medicine feedstuff, and there and sold to the campus community and the visiting public.

The Faculty of Agriculture produces milk and meat products to be sold. The university has large farms for stock farming and free-range egg farming, etc., not only for research but also for local

food production. The animals at the farms are nourished with only healthy and quality is enough open space for grazing.

Technical Sciences Vocational School developed a local ice cream with the milk they obtained from the farms of the Faculty of Agriculture. This local ice cream was put on the market with a brand named UNIDO.





















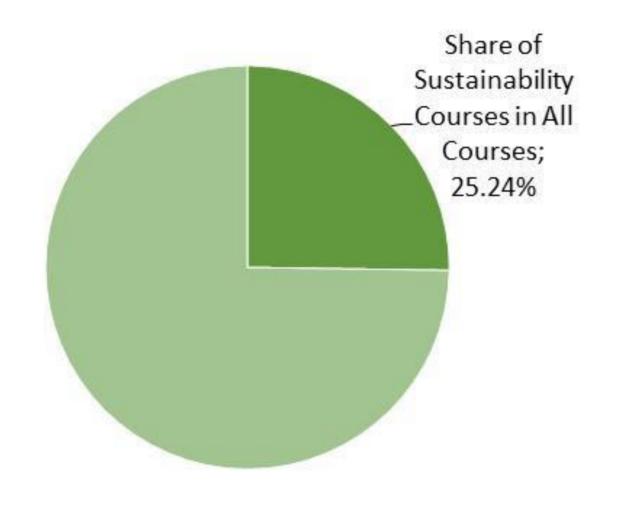




Sustainable Food







Education



FACULTIES	All Courses		Sustainability Courses	
	Under-	Graduate	Under-	Graduate
	graduate		graduate	
Faculty of Engineering	825	513	127	187
Faculty of Education	763	902	156	191
Faculty of Agriculture	889	588	251	252
Faculty of Economics and	338 458		22	162
Administrative Sciences				
Faculty of Arts and Sciences	1119	577	246	217
Faculty of Architecture	135	120	8	9
Sports Science Faculty	127	41	2	3
Faculty of Health Sciences	72	118	38	41
Faculty of Medicine	184	217	86	82
Faculty of veterinary	159	349	12	65
medicine	139			
TOTAL	4611	3883	948	1209

Vocational Schools	All Courses	Sustainability Courses
Vocational School of Technical Science	816	89
Vocational School of Mennan Pasinli	44	3
Vocational School of Health Sciences	533	247
TOTAL	1393	339



Bursa Uludag University







Join Us! We are incomplete without you in sustainability efforts.

E-mail: sustainability@uludag.edu.tr https://uludag.edu.tr/sustainability

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