



GAZIANTEP UNIVERSITY SUSTAINABILITY REPORT, 2021



TABLE OF CONTENTS

1. INTRODUCTION
2. CAMPUS LOCATION AND INFRASTRUCTURE
3. ENERGY AND CLIMATE CHANGE
4. WASTE MANAGEMENT
5. WATER RESOURCES
6. TRANSPORTATION
7. EDUCATION



1. INTRODUCTION

Higher education in Gaziantep started in 1973 with the Department of Mechanical Engineering of Middle East Technical University, which gained the legal entity of a university in 1987. Gaziantep University is at the forefront of scientific publication rankings among universities in Turkey. Keeping up with the information age, transforming knowledge into production and creating the structure to adapt to emerging technology, scientific, technological, cultural, artistic, sport, production, communication and interaction through educational and research-development functions, and raising Turkish society to the level of contemporary civilizations are the main aims of our university. Gaziantep University, where education is carried out in a peaceful and safe environment, has adopted the basic principle of offering the best social and academic services to our country's youth with the "From Tradition to the Future" motto.



[1] Setting and Infrastructure (SI)

1.3. Number of Campus Sites





Gaziantep
University
Islahiye
Economics and
Administrative
Sciences



Gaziantep
University
Nizip
Education
Faculty



Gaziantep
University
Oğuzeli
Vocational
School



Gaziantep
University
Araban
Vocational
School



Gaziantep
University
Nurdağı
Vocational
School



Gaziantep
University
Naci
Topcuoğlu
Vocational
School



Gaziantep
University
Nizip
Vocational
School



Gaziantep
University
Islahiye
Vocational
School

Other Faculties and Vocational Schools

İslahiye Faculty of Economics and Administrative Sciences

Indoor Area: 6.125 m² (20 Classrooms, 2 Laboratories, 1 Library, 250-Person Conference Hall, 42 Offices)

Total Campus Area: 188.753 m²

In İslahiye Faculty of Economics and Administrative Sciences, there are Economics, Business Administration, Public Administration and International Relations Departments, 131 students in the active Economics Department, 67 students in the Business Department, 214 students in the Public Administration Department. In İslahiye Faculty of Economics and Administrative Sciences, there are 1 Professor, 1 Associate Professor, 12 Doctor Lecturers, 7 Lecturers and 1 Research Assistant. There are 1 faculty secretary, 1 department director, 4 officers, 3 permanent workers (office personnel), 5 permanent workers (servant) personnel, totally 14 people.

Nizip Education Faculty

Gaziantep University Nizip Faculty of Education, within the indivisible integrity of the State of the Republic of Turkey with its country and nation, has acquired basic knowledge and skills with the universal and self-values of the 21st century, has gained basic knowledge and skills with the understanding of teaching required by the age, knows different teaching methods and techniques, produces and implements knowledge in its field, follows the world, and prepares teachers who produce scientific solutions with academic perspective to the problems related to education of the country and its region. Our faculty was established in the 2011-2012 academic year and continues its educational activities (around Samandöken Village of Nizip District) since the 2011-2012 academic year. Since its opening, a new training building, new libraries, cafeterias, classrooms and offices of 350 people have been established in the campus. In addition, Nizip district, where the campus is located, is a modern district with its social life, cultural and social activities with a central population of over 150,000.

Our campus area consists of two separate buildings on an open area of 710.856 square meters and a closed area of 6240 square meters.

Our faculty has a total of 27 academic staff members. There are 1 Prof. Dr, 8 Assoc. Prof. Dr, 15 Dr. Lecturer, 1 Instructor, 2 Research Assistants.

In our faculty, 1 Faculty Secretary, 4 Computer Operators, 1 Officer, 1 Protection and Security Officer, 1 Staff are working.

Oğuzeli Vocational School

Gaziantep University Oğuzeli Vocational School was established in Gaziantep province Oğuzeli district on 24.12.2002 with the decision of the Higher Education Executive Board. Educational activities continue in 5 departments of the Vocational School and, accordingly, 10 programs in I. Education (daytime).

Computer Technologies, Accounting and Tax, Management and Organization Departments were opened within the body of our Vocational School, which was established by the Higher Education Executive Board Decision dated 24.12.2002 under Gaziantep University. The Property Protection and Security Division was established in 2009, and the Transportation Services Division was established in 2010.

There are Computer Programming in the Computer Technology Department, Accounting and Tax Applications in the Accounting and Tax Department, Business Management in the Management and

Organization Department, and Private Security and Protection Program in the Property Protection and Security Department.

In 2011, the Postal Services Program was opened in the Transportation Services department, but no students have been admitted yet. In 2011, the Justice Program under the Law Department, and the Occupational Health and Safety Program within the Property Protection and Security Department were launched in 2012.

In 2017, students were admitted to the Social Security Program within the Property Protection and Security Department, and education activities were started. On 12.04.2018, he started his education activities by taking students to the Criminal Execution and Security Services Program within the Law Department.

As of the end of 2020, 1460 students continue their education in our Vocational School. There are 1 professor, 8 Dr. Lecturer, 19 Lecturers, in total, 28 Academic staff in our campus.

Oğuzeli Campus

Open area: 19.834,94 m²

Indoor area: 5.650,00 m²

Araban Vocational School

Gaziantep University Araban Vocational School was established by the decision of the Higher Education Board dated 30 June 2009. In the 2010-2011 academic year, the Department of Crop and Animal Production started education with the Organic Agriculture Program.

In our Vocational School; Crop and Animal Production Department, Organic Agriculture, Veterinary Department, Laboratory and Veterinary Health and Child Care and Youth Services Department, Child Development Programs are active and open to student admission.

In addition, Crop and Animal Production Department, Plant Protection and Computer Use Department, Information Management Program has been opened and it is passive in YÖKSİS.

Araban Vocational School, Soil Analysis Application and Research Laboratory carries out soil analysis with the authority it received on 23.07.2018.

Indoor area:

3.600 m² (9 Classrooms, 2 Computer Laboratories, 4 Laboratories, 41 Offices, 1 Library, 1 Meeting Room for 30 persons, 110-Person Conference Hall, 1 Dining Hall, 1 Cafeteria)

Total Campus Area:

12.231 m² (There is an application area of 6.000 m² in the school garden.)

Nurdağı Vocational School

Our Vocational School was established on April 22, 2009 in accordance with the Higher Education Law No. 2547. Nurdağı Vocational School is located in Nurdağı district centre and continues its educational activities with 5000 m² open area and 2100 m² closed area.

There is a modern greenhouse of 5000 m² to be used in research and development activities on the 471 decaire application area of our school. In addition, all equipment used in agricultural activities is available and our students are offered the opportunity to apply in the field.

The main purpose of our school is to be a specialized vocational school and to train qualified intermediate staff for the agriculture and livestock sector in this direction. In addition, our school aims to

lead the cultivation of agricultural products with high added value in the region, to bring different products to the regional economy and to conduct research and development activities in this direction.

Our school still has 2 departments and 3 programs actively.

These;

1- Plant and Animal Production Department

- Medicinal Aromatic Plants Program

- Organic Agriculture Program

2- Park and Garden Plants Department

- Landscape and Ornamental Plants Breeding Program

Naci Topçuoğlu Vocational School

Our school in Gaziantep 2. Organized Industrial Zone has a closed area of 10.535m² built on a 31.349,77m² area. As of 2019, Naci Topçuoğlu Vocational School has 34 academic staff, 7 general administrative services staff, 1 technical staff, 2 services staff and 19 permanent workers. In the 2007-2008 academic year, it started education by taking students to Plastic Technologies and Carpet Weaving Programs.

The school continues its education and training in a total of 14 programs including Architectural Decorative Arts, Textile and Carpet Machines, Machine program, Shoe Design and Production, Office Management and Executive Assistant, Foreign Trade, Food Technology, Carpet and Rug Making, Business Management, Logistics, Accounting and Tax Applications, Flour and Bakery Products Technology, Chemical Technology, Occupational Health and Safety.

As of the 2019-2020 academic year, 1107 students are studying at the school. In addition, it is thought that the increase of young people in higher education will contribute to the absorption of contemporary and cultural values by the people of the region. Naci Topçuoğlu Vocational School is a first in Turkey, unlike other vocational schools, where the students are taught for a total of 6 semesters. 4 semesters of these period are spent at school and 2 semesters with workplace training in enterprises.

Nizip Vocational School

Our school was opened in 1997-1998 academic year and continued its activities in the temporary building until 30 June 2008. It was moved to the new service building, which belongs to our university on 01 July 2008. Since the 2008-2009 academic year, the education activity (around Samandöken Village of Nizip District) continues in the new campus area. Our campus area consists of two separate buildings on an open area of 710.856 square meters and an indoor area of 6240 square meters (education building 5250 square meters, administrative building 990 square meters). There are 15 classrooms, 2 computer labs, 1 microbiology and 1 chemistry lab, 2 archive rooms, 1 printing machine room and 2 (male, female) masjids in our school. On the ground floor of the administrative building; there are 1 Multi-Purpose hall, 3 warehouses, and 1 warehouse on the ground floor of the Education building.

İslahiye Vocational School

İslahiye Vocational School continues its education and training activities with a closed area of 2509 m² in a newly constructed building consisting of a single block, located on a large area and located in the İslahiye Campus of our university. Our school has a library of 40 square meters built by its own means. The section of the books in our library is general and there are 2450 Books in total. There are also 6 desktop computers in the library for students to prepare their assignments.

İslahiye Vocational School is one of the best education institutions in the region with its strong teaching staff, distinguished students and infrastructure facilities. Associate Degree diploma is given in Vocational School. It is arranged on a semester basis in the Vocational School of Education and Training. One academic year consists of fall and spring semesters. If deemed necessary, the summer semester can

also be opened. The semester is 15 weeks long. Education style continues in the form of formal education.

The language of instruction is Turkish. According to the data of 2020, the number of students enrolled in our school is 554.

1.4. Campus Setting

Gaziantep University Main Campus is located in the city centre of Gaziantep city which is located in the South-eastern region of Turkey with a population of 2.110.751. Our students do not have any problems in transportation to the university or from the university to any part of the city. There are minibuses, municipal buses and public buses from almost every district of Gaziantep to the university. There are tram services to the central campus of our university on two separate lines. In addition, there is not much density on these lines and it is possible to reach the city centre in 10 minutes.





Gaziantep University, Gaziantep/Turkey

1.5. Total Campus Area (meter²)



Gaziantep University, Total Main Campus Area



Nizip Vocational School



Nurdağı Vocational School



Oğuzeli Vocational School



Araban Vocational School



Islahiye Vocational School



Naci Topçuoğlu Vocational School





Nizip Education Faculty

Description:

Main Campus area: 1.636.682,25 m²

Total area including other campuses: 3062276,49 m²

1.7. Total campus buildings area

RECTORATE	FACULTY OF MEDICINE
	
Area: 10.560 m ²	Area: 82.810 m ²
Example of buildings at Gaziantep University	

Description:

CAMPUS NAME	TOTAL (m ²)
Main Campus	460,604.00
Oncology Hospital	8,182.00
Naci Topçuoğlu Vocational School	10,535.00
Oğuzeli Vocational School	5.650,00
Nurdagi Vocational School	2.100.00
İslâhiye Vocational School (3810 m ²) + G.U. İslahiye Faculty of Economics and Adm. Sciences (5650 m ²) + Student cafeteria (500 m ²)	9.960.00
Araban Vocational School	3.600.00
Nizip Vocational School (6250)+ G.U. Nizip Education Faculty (5650 m ²) + Student cafeteria (500 m ²)	12.400.00
TOTAL	513,031.00

** To Main Campus; Cenani Mansion 1=707 m², Cenani Mansion 2 = 530 m² closed areas are also included.

Table 1.3. Distribution of Indoor Spaces by Service Areas *(m²)

UNITS	TOTAL
ADMINISTRATIVE UNITS	
RECTORATE	4.200.00
ENGINEERING FAC. DEAN.	1.663.00
FACILITY MANAGEMENT MANAGEMENT+WORKSHOP= 3600 M2 BUILDINGS+VEHICLE MANAGEMENT MANAGEMENT+HEAT PLANT	11,194,00
D. DEPARTMENT OF INFORMATION TECHNOLOGIES	3.500.00
DIRECTORATE OF HEALTH AND CULTURE, FINANCE	2.100.00
LIBRARY AND DOCUMENTATION	6.910.00
ADMINISTRATIVE AND FINANCIAL MANAGEMENT BRANCH (Printing)	865.00
LAND APPLICATION ENGINEERING	280.00
ADMINISTRATIVE BUILDING	6.654,00
TOTAL	37.366.00
FACULTIES	
BASIC MEDICAL SCIENCES	14,400,00
FACULTY OF ARTS AND SCIENCE	12.540.00
FACULTY OF EDUCATION	10,560,00
ECONOMIC AND ADMINISTRATIVE SCI. FAC.(5300 m ²) and NEW BUILDING (5650 m ²)	10.950.00
İSLAHİYE ECONOMIC AND ADMINISTRATIVE SCI. FAC	5.650,00
FACULTY OF DENTISTRY	16.500.00
VOCATIONAL SCHOOL OF HEALTH + CONSTRUCTION WORKS AND TECHNICAL DEPARTMENT	6,520,00
COMMUNICATION FAC.	1.350.00
BIOLOGY DEPARTMENT + ADDITIONAL BUILDING	4,590,00
FAC. OF THEOLOGY	8.000.00
FACULTY OF ARCHITECTURE	11,359.00
FACULTY OF LAW	12,760,00
SPORTS SCIENCE FACULTY	4.900.00

FINE ARTS FACULTY (Gastronomy)	600,00
NIZIP EDUCATION FAC.	5.650,00
TOTAL	126,329.00
FACULTIES OF ENGINEERING	
CIVIL ENGINEERING + LABORATORY	8.450,00
MECHANICAL ENGINEERING	15,400,00
MECHANICAL ENGINEERING CLASSROOM BUILDING	1.100.00
INDUSTRIAL ENGINEERING	1.750.00
TEXTILE ENGINEERING	4.250.00
SPACE AND AVIATION DEPARTMENT. AIRCRAFT ASSEMBLY WORKSHOP	1.700.00
AVIATION AND ASTRONAUTICS HANGAR	1.976.00
FOOD ENGINEERING(3625m2) + FOOD ADDITIONAL BUILDING(2060m2) FOOD LAB. (2400 m2)	8,085.00
PHYSICS ENGINEERING	3.100.00
PHYSICS ENG. ADDITIONAL BUILDING	1.370.00
ELECT - ELECTRONIC ENGINEERING	6.850.00
TOTAL	54,031.00
HIGHER SCHOOLS	
FOREIGN LANGUAGES	7.650,00
HEALTH (2800m2), 5-storey building 3750m2	6.550.00
TURKISH STATE MUSIC CONSERVATORY	3.700.00
TOTAL	17,900,00
VOCATIONAL SCHOOLS	
GAZIANTEP VOC SCHOOL	19.405.00
TOURISM AND HOTEL MANAGEMENT Vocational School + APPLICATION HOTEL	8.300.00
NURDAĞI Vocational School	2.100.00
Islahiye Vocational School	3.810.00
NACI TOPCUOGLU Vocational School	10,535.00
ARABAN VOCATIONAL SCHOOL	3.600.00
NIZIP VOCATIONAL SCHOOL	6.250.00
OĞUZELİ VOCATIONAL SCHOOL	5.650,00
TOTAL	59,650,00
HOSPITALS	
FACULTY OF MEDICINE HOSPITAL	82,810,00
CHILDREN'S HOSPITAL	30,440,00
ONCOLOGY HOSPITAL	8,182.00
TOTAL	121,432.00

CENTRAL CLASSROOMS	
75th YEAR CENTRAL CLASSROOM	2.600,00
TOTAL	2.600,00
CENTRAL LABORATORIES	
ULUG BEY CENTRAL LABORATORY	5.898,00
GAUNDAM	2.940,00
PROTON ACCELERATION AND RADIOPHARMACEUTICAL MANUFACTURING FACILITY	1.300,00
CHEMISTRY ADDITIONAL LAB.	440,00
TOTAL	10,578,00
SPORTS FACILITIES	
SPORTS COMPLEX (SPORIUM)	9.700,00
WATER SPORTS CENTER	1.450,00
XYSTUS	1.373,00
TOTAL	12,523,00
CAFETERIAS	
CENTRAL CAFETERIA	7.230,00
NIZIP STUDENT CAFETERIA	500,00
ACADEMIC AND ADMINISTRATIVE STAFF DINING HALL	4.450,00
ISLAHIYE STUDENT CAFETERIA	500,00
BESYO CAFETERIA	250,00
TOTAL	12,930,00
MEETING AND CONFERENCE	
ATATÜRK CULTURAL CENTER	3,090,00
80th YEAR CULTURE CENTER	2.800,00
MAVERA CONGRESS CULTURAL CENTER	14,782,00
AMPHITHEATRE	3,655,00
TOTAL	24.327,00
SHELTER	
PATIENT ACCOMPANYING HOUSE	950,00
LODGINGS	9.200,00
ÇAMLITEPE FACILITIES (Guesthouse)	440,00
TOTAL	10,590,00
OTHERS	
INNOVATION CENTER	1.300,00
COMMUNITY HEALTH CENTER	1,202,00
SEYIRTEPE	1.250,00
COBANEVI	570,00
NURSERY AND KINDERGARTEN BUILDING	2,428,00
*CENANI MANSION 1	707,00

*CENANI MANSION 2	530,00
TECHNOPARK + NEW BUILDING	9.150.00
BAZAAR COMPLEX	4.500.00
GASOLINE STATION (OPET)	198.00
MOSQUE	810.00
SQUARE BACKSTAGE BUILDING	130.00
TOTAL	22,775.00
GRAND TOTAL	513,031.00

1.8. The ratio of open space area to total area





Ratio of open space towards total area: 91%

Open space name	Total area	Duration (in Hours per Weeks)
Gaziantep University Forest and Open Space	900.000 m ²	25

1.9. Total Area on Campus Covered in Forest Vegetation (meter²)

Ormanlık Alan: Forest Area

Yeşil Alan: Green Field

Total area: 900.000 m² (The forest area within our campus belongs to the Ministry of Agriculture and Forestry; however, it is located within the campus borders.)

1.10. Total area on campus covered in planted vegetation (meter²)



Gaziantep University Main Campus 1



Gaziantep University Main Campus 2

Example of Total Planted Vegetation Area (Gaziantep University Main Campus)

Total planted vegetation area: 216.530 m²
Total Area: 1.353.312 m²
Percentage area: 16%

1.11. Total area on campus for water absorption besides the forest and planted vegetation (meter²)



Total **water absorption** area: 200.000 m²
Total Area: 1.353.312 m²
Percentage area: 16%

1.12. The current number of regular students in Gaziantep University is 48.854

1.13. The total number of online students in Gaziantep University is 691

1.14. The total number of academic and administrative staff is 3550.

1.15. Estimated annual total population is 53095 .

1.18. University budget for sustainability effort (in US Dollars)

	2018	2019	2020	Average
Budget Total	\$	\$ 53430245	\$ 66734320	\$ 57421192
Sustainability Budget	\$	\$ 272480	\$ 990900	\$ 751426
			Percentage	1,3 %

The average percentage university budget for our university is 1,3%.

1.20. Percentage of operation and maintenance activities of building in one year period

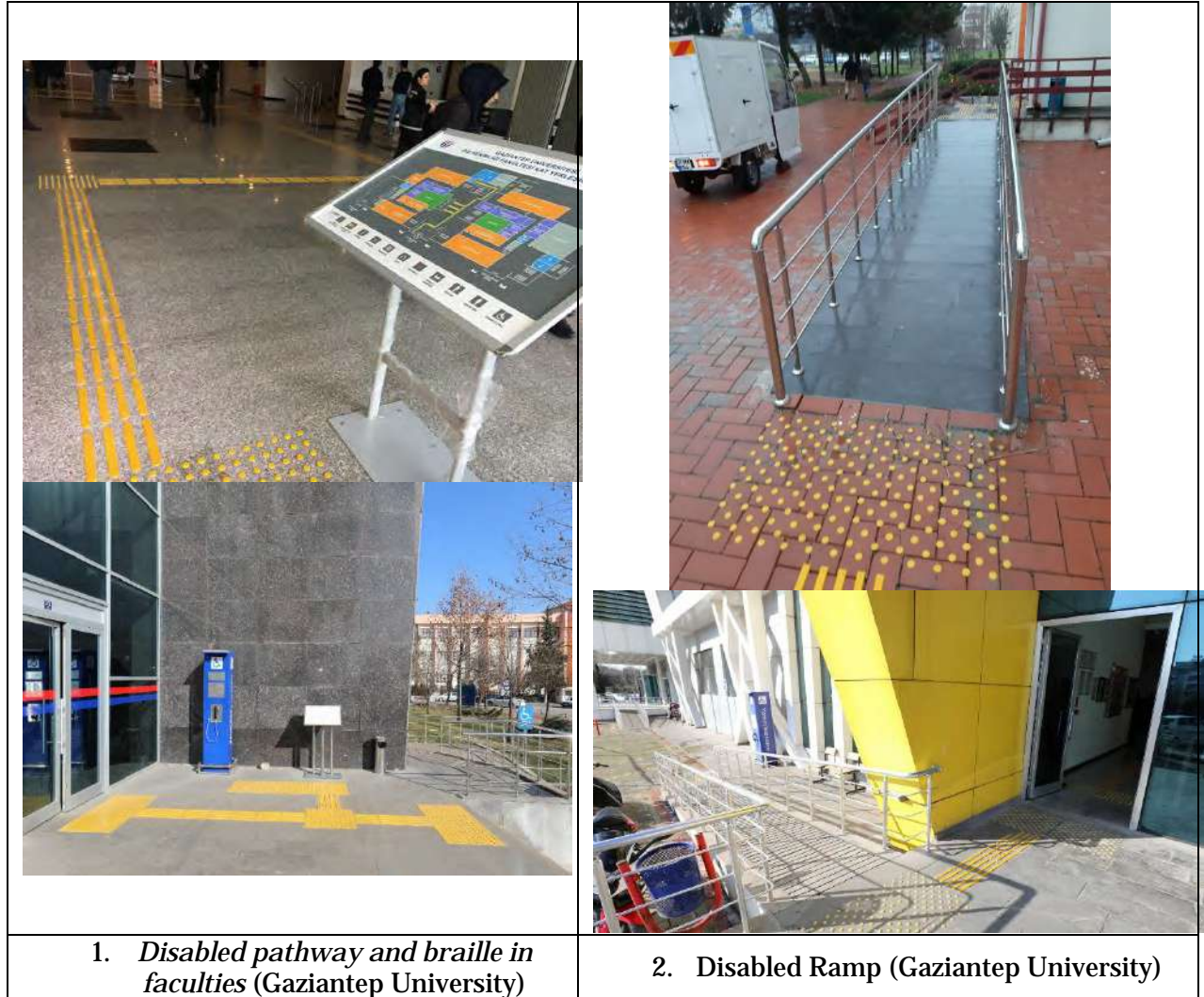


Example of operation and maintenance activities in Gaziantep University (Engineering Faculty, Sport centre, Congress Centre, Faculty of Dentistry Water reservoir and Pipes)

Description:

1	Total campus buildings area	513031 m ²
2	Total operated building	384775 m ²
	Percentage building that operated and maintained	75,3%

1.21. Campus facilities for disabled, special needs and or maternity care

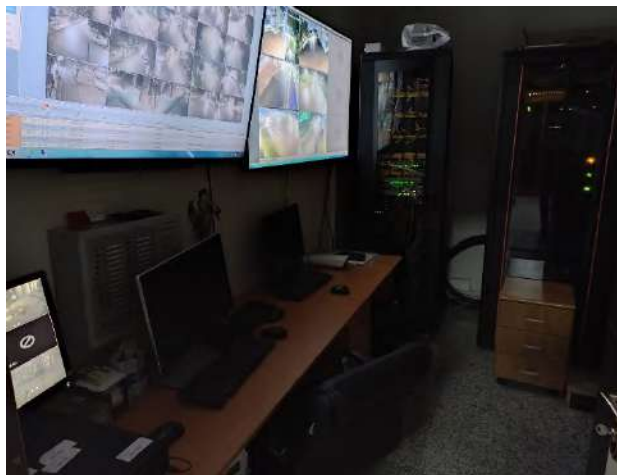


Disabled Toilet /Lactation Room (Gaziantep University)

Description:

1. Disabled parking for disabled people to park their car which located at the nearest space building
2. Accessible toilet for disabled people.
3. Lactation room is private room for staff who are breastfeeding can pump breast milk in private

1.22. Security and safety facilities



3. CCTV in entrance (Gaziantep University)

4. Fire Hidrant Practice (Gaziantep University)



Emergency Exit and Evacuation Plan (Gaziantep University)

Description:

1. CCTV at Gaziantep University gate
2. Fire Hidrant at Gaziantep University
3. Emergency Exit and Evacuation Plan at Gaziantep University

1.23. Health infrastructure facilities for students, academics and administrative staffs' wellbeing



1. University Hospital (Gaziantep University)



2. Oncology Hospital (Gaziantep University)



3. Palliative Care and Hope House (Gaziantep University)



4. Faculty of Dentistry and Hospital (Gaziantep University)

Description:

Gaziantep University provides health services with comprehensive service support for the entire academic community with its facilities.

Gaziantep University Şahinbey Research and Application Hospital, which has adopted the basic principle of being the address of trust in health since the day it was opened, has become the largest and most equipped hospital in the region serving the Southeastern Anatolia Region by increasing its service quality a little more every day. Our hospital has shown a rapid development process since 1989. Today, it continues to operate with 208 faculty members, reaching a bed capacity of 1026. Equipped with the latest technology, Gaziantep University Şahinbey Research and Application Hospital continues to realize its dreams in the health sector with its staff and service quality. It carries the determination to walk towards greater success without giving up on the principles of pioneering and leadership. Gaziantep University Şahinbey Research and Application Hospital also has health tourism certificate.

Gaziantep University Oncology Hospital, the foundation of which was laid in 1999 with the leadership of the Turkish Cancer Foundation Gaziantep Branch, is a regional hospital and was built on an area of 24 thousand square meters with a closed area of 10 thousand square meters and 5 floors. Our hospital has a bed capacity of 102 and is equipped with modern devices. Our hospital, which has been serving as the only equipped oncology center in the region since its opening, includes medical oncology outpatient clinic, adult outpatient chemotherapy unit, patient education program, pediatric hematology outpatient clinic, pediatric oncology outpatient clinic, pediatric outpatient chemotherapy unit, pediatric bone marrow unit, medical oncology service, pediatric hematology-pediatric oncology service, adult hematology service, radiation oncology outpatient clinic and service.

Gaziantep University Faculty of Dentistry was established on 31 October 200. As of September 2009, the faculty has been serving in the Departments of Prosthodontics, Orthodontics, Oral and Maxillofacial Surgery, Periodontology, Pedodontics, Endodontics, Restorative Dentistry and Oral and Maxillofacial Radiology. In 2012, it moved to its new location equipped with high-tech medical devices and started to serve as a Regional Hospital. Our faculty, which continues its physical development rapidly, shows this success in education and scientific activities. Our faculty, which was deemed worthy of many scientific awards in national and international meetings, attracts the attention of local and national media. Our faculty started education with 20 students in the 2009-2010 academic year, and has a total of 399 students as of today. Gaziantep University Faculty of Dentistry has 3 Professors, 4 Associate Professors, 10 Dr. Instructor, 73 Research Assistants and 25 permanent staff – 48 permanent workers.

2. ENERGY AND CLIMATE CHANGE

2.1. Energy Efficient Appliances Usage





Example of Energy Efficient Appliances Usage: Use of LED lighting and lamps with light detection (Gaziantep University)

Gaziantep University prioritizes the energy efficiency for reduction of energy consumption, as well as for other benefits or multiple benefits, such as reducing climate change impact, reducing air pollution and improving health, improving indoor conditions, improving energy security etc. Gaziantep University equipped nearly most of its offices with modern appliances that use less energy than older appliances (a detailed list of those equipment are provided in the proofs).

Buildings are an important field for energy efficiency improvements around the world because of their role as a major energy consumer. However, the question of energy use in buildings is not straightforward as the indoor conditions that can be achieved with energy use vary a lot. The measures that keep buildings comfortable, lighting, heating, cooling, and ventilation, all consume energy. Adopting a balanced approach to use energy efficiently in buildings, Gaziantep University focuses on quality of indoor environment and efficiency of space use.

[2.5] Renewable Energy Sources in Campus

Gaziantep Üniversitesi 828kWe(1 ...



Dashboard

Layout

Analysis

Reports

Alerts

Admin

Anlık Güç
382,26 kW

Bugünkü Enerji
4,09 MWh

Bu Ayki Enerji
56,21 MWh

Ömür Boyu Enerji
1,19 GWh



LİMİTSİZ ENERJİ



SİSKON ENERJİ
İnşaat Kuruluşları

Güç ve Enerji

Day Week Month Billing Cycle **Year**

01.01.2022 - 31.12.2022

System Production: **1,06 GWh**

Status

Active

ID

2371039

Name

Gaziantep Üniversitesi 828k ...

Address

Gaziantep Üniversitesi,
Gaziantep, Gaziantep Provinc...

Installed

16.07.2021

Last Updated

12.09.2022 14:38

Peak Power

1.003,6 kWp + 18 kWp

GAZIANTEP UNIVERSITY SOLAR POWER PLANT PROJECT FEASIBILITY REPORT





Genel Bilgiler			
Proje Adi	GAUNGES 1	Tarih	3.08.2022
Lokasyon	Gaziantep-Araban-Dogan Mah-91 parsel- 128.138 M2	Sozle me Siiresi (Ay)	72 Ay
GESTipi	Arazi	Tahmini Kurulum Siiresi	12 Month
Kurulu Gii	11872 kWp (DC) 9900 kWe (AC)	Baglant1 Tipi	ebeke
Kamu /Ozel Sektor	Kamu	Tiiketm (Aym/Farkh Nokta)	Farkh
Panel Giid / Adedi	530 22400	Operasyona Balama Tarihi	1.08.2023



Genel Bilgiler			
Proje Adi	GAUNGES 2	Tarih	3.08.2022
Lokasyon	Gaziantep-Araban-Dogan Mah-34/48 parsel- 166.800 M2	Sozleme Siiresi (Ay)	72 Ay
GESTipi	Arazi	Tahmini Kurulum Siiresi	12 Month
Kurulu Gii	11734 kWp (DC) 9780 kWe (AC)	Baglant1 Tipi	ebeke
Kamu /Ozel Sektor	Kamu	Tiiketm (Aym/Farkh Nokta)	Farkh
Panel Giicii / Adedi	530 22130	Operasyona Balama Tarihi	1.08.2023



 HelioScope

GAUN SOLAR POWER PLANT INITIAL INVESTMENT COST

NO	EQUIPMENT	MANUFACTURER	AMOUNT PIECE	UNIT COST(\$)	TOTAL COST(\$)	
1	PV MODULE 530 watts	HT-SAAE, Phono Solar, Smart Solar, CW Energy, Schmid Pekintas, GTC,	44.530	247	10,998,910	
	23,606 kWp (DC)	Elin Energy and Equivalent Producers				
2	INVERTER 100 kW	Huawei, Fimer, SMA, sunrow, goodwe, Fronius, Kaco and Equivalent Producers	236	3.70 5	874,380	
3	CARRIER SYSTEM GALVANIZED COATED CAROT CONCRETE 4X28	Isotec, Alustar, Arkat, Scheletter, Deger Enerji and Equivalent Manufacturers	398	3,382	1,346,036	
4	SOLAR DC CABLE Prysmian, Ege, HIS, HEPP and Equivalent Manufacturers		4,552 SETS		327,750	

5	AC, MV CABLE	Prysmian, Öznur, HEPP, Vatan, Nexans and Equivalent Manufacturers	236 SETS	5500	1,298.000	
6	TRANSFORMER BUILDING SWITCH MATERIAL AND BOARDS	ABB, Schenider, Siemens, Phoenix Contact, Equivalent Manufacturers and Local Partners	2 TEAMS	570,000	1,140,000	
7	ENERGY TRANSMISSION LINE EXPENSES	AIR FROM 10KM	10KM	40,000	400,000	
8	SINGLE-DUAL LIGHTING AND CAMERA SYSTEMS		10	15,000	150,000	
9	PROJECT ENGINEERING AND ACCEPTANCE EXPENSES		23 MW	5,000	115,000	
10	FIELD CONST. ASSEMBLY AND CONSTRUCTION MACHINE SITE PREPARATION		23	30,000	690,000	
TOTAL COST (\$) 17,340,076						
TOTAL COST (TL) 312,034,668 1 \$=17,995 TL (CBRT-04.08.2022)						

GAUN ALL INSTALLATIONS ELECTRICITY CONSUMPTION BY MONTH

MONTHS	2021		2022	
	Consumption (kWh)	Payment (TL)	Consumption (kWh)	Payment (TL)
JANUARY	1,878,194	1,755,249	2,680,293	2,832,830
FEBRUARY	1,653,772	1,537,112	2,304,958	2,753,052
MARCH	1.860.743	1.784.804	2.709419	7,859,425
APRIL	1,693,617	1,593,017	2,123,360	5,262,364
MAY	1.903.010	1.823.401	1,936,826	4,634,030
JUNE JULY	2,307,613	2,238,839	3,382,000	9.876.181
AUGUST*	2,957,389	3,089,469	2,635,905	8,180,561
SEPTEMBER*	3,067,972	3,293,479	3,067,972	9,510,713
OCTOBER*	2,341,618	2,465,197	2,341,618	7,259.016
NOVEMBER*	1,932,179	2,261,341	1,932,179	5,989,755
DECEMBER*	2,470,931	3.155.022	2,470,931	7.659.886
	3.155.022	3,015,245	3.155.022	9,780,568
TOTAL	27,222,060	28.012.175	30,740,483	81,598,381

* 2022 AUGUST-SEPTEMBER-OCTOBER-NOVEMBER-DECEMBER INVOICES HAVE BEEN CALCULATED WITH CONSUMPTION AMOUNT OF THE PREVIOUS YEAR AND JULY 2022 UNIT ELECTRICITY PRICE.

GAUN ALL INSTALLATIONS ELECTRICITY CONSUMPTION BY MONTH

MONTHS	2021		2022	
	Consumption (kWh)	Payment (TL)	Consumption (kWh)	Payment (TL)
JANUARY	1,878,194	1,755,249	2,680.293	2,832,830
FEBRUARY	1,653,772	1,537,112	2,304,958	2,753,052
MARCH	1.860.743	1.784.804	2.709419	7,859,425
APRIL	1,693,617	1,593,017	2,123,360	5,262,364
MAY	1.903.010	1.823.401	1,936,826	4,634,030
JUNE	2,307,613	2,238,839	3,382,000	9.876.181
JULY	2,957,389	3,089,469	2,635,905	8,180,561
AUGUST*	3,067,972	3,293,479	3,374,769	10,461,785
SEPTEMBER*	2,341,618	2,465,197	2,575,780	7,984,917
OCTOBER*	1,932,179	2,261,341	2.125.397	6.588.730
NOVEMBER*	2,470,931	3.155.022	2,718.024	8.425.875
DECEMBER*	3.155.022	3,015,245	3.470.524	10,758,625
TOTAL	27,222,060	28.012.175	32,037,255	85.618.75

2022 AUGUST-SEPTEMBER-OCTOBER-NOVEMBER-DECEMBER INVOICES HAVE BEEN CALCULATED BY INCREASING THE CONSUMPTION AMOUNT 10% IN THE SAME MONTHS OF THE PREVIOUS YEAR AND CONSIDERING THE UNIT ELECTRICITY PRICE OF 2022 JULY.

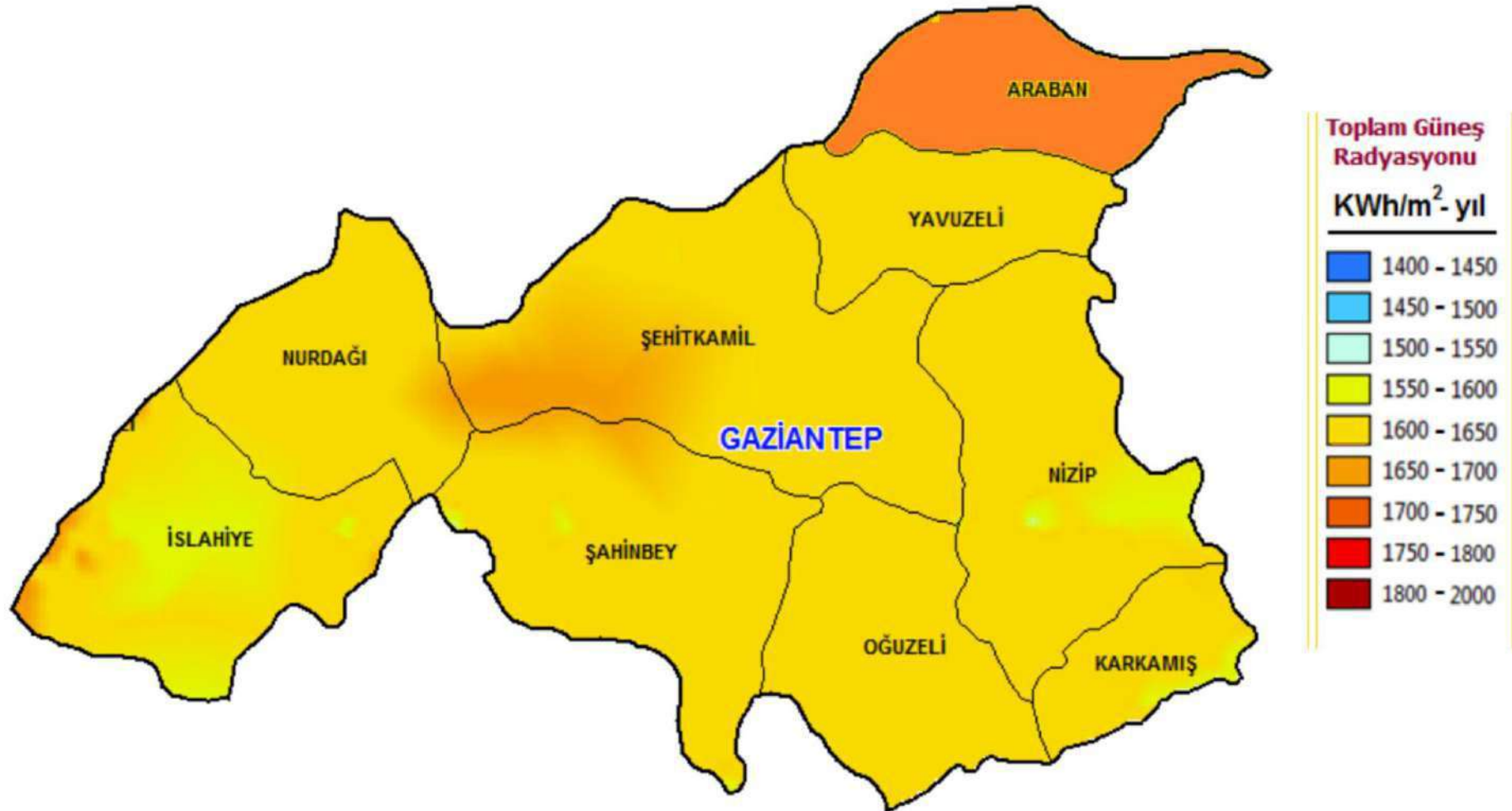
GAUN ALL INSTALLATIONS ELECTRICITY CONSUMPTION BY MONTH

MONTHS	2023		2024	
	Consumption (kWh)	Payment (TL)	Consumption (kWh)	Payment (TL)
JANUARY	2,948,322	10,967,759	3,243,155	14,464,469
FEBRUARY	2.535.454	9,431,888	2,788,999	12,438,936
MARCH	2,980,361	11,086,943	3,278,397	14,621,651
APRIL	2,335.696	8,688,789	2,569,266	11,458,925
MAY	2.130.509	7,925,492	2,343,559	10,452,275
JUNE	3,720,200	13,839.144	4,092,220	18,251,301
JULY	2,899,496	10,786.123	3,189,445	14,224,925
AUGUST	3,712,246	13.809.555	4,083,470	18.212.278
SEPTEMBER	2,833,358	10.540.092	3,116,694	13,900,454
OCTOBER	2,337,937	8.697.125	2,571,730	11,469,917
NOVEMBER	2,989,826	11.122.154	3,288,809	14,668.088
DECEMBER	3,817,576	14,201,384	4,199,334	18.729.030
TOTAL	35.240.981	131.096.447	38.765.079	172,892,250

BY INCREASING THE CONSUMPTION AMOUNT OF THE PREVIOUS YEAR AND THE SAME MONTHS by 10% AND THE UNIT ELECTRICITY PRICE IN DECEMBER 2022 INCREASED 20% ON AN YEAR BASIS.

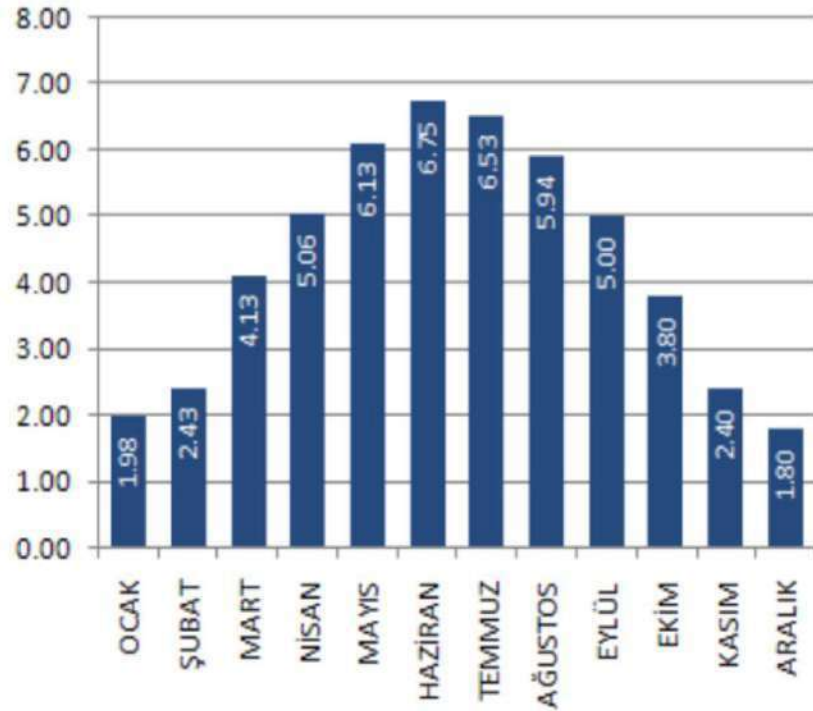
INVOICES FOR 2024 ARE CALCULATED BY INCREASING CONSUMPTION AMOUNT 10% IN THE SAME MONTHS OF THE PREVIOUS YEAR AND INCREASING THE UNIT ELECTRICITY PRICE FOR 2023 DECEMBER BY 20% ON AN ANNUAL BASIS.

GAUN SOLAR POWER PLANT ELECTRICITY ENERGY GENERATION POTENTIAL

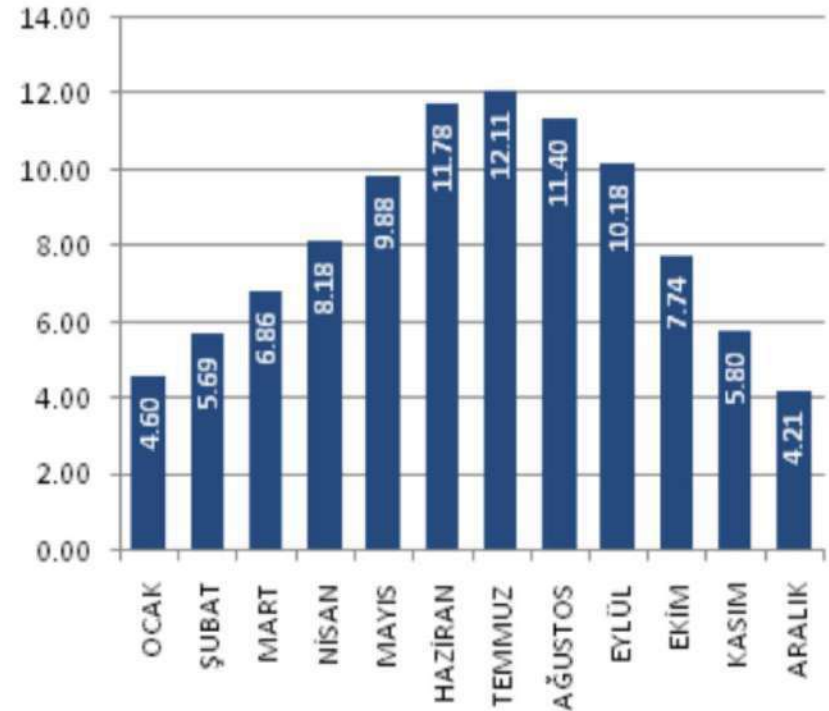


GAZIANTEP ARABAN DISTRICT GLOBAL RADIATION VALUES AND SUNSHINE DURATION

ARABAN Global Radyasyon Değerleri (KWh/m²-gün)



ARABAN Güneşlenme Süreleri (Saat)



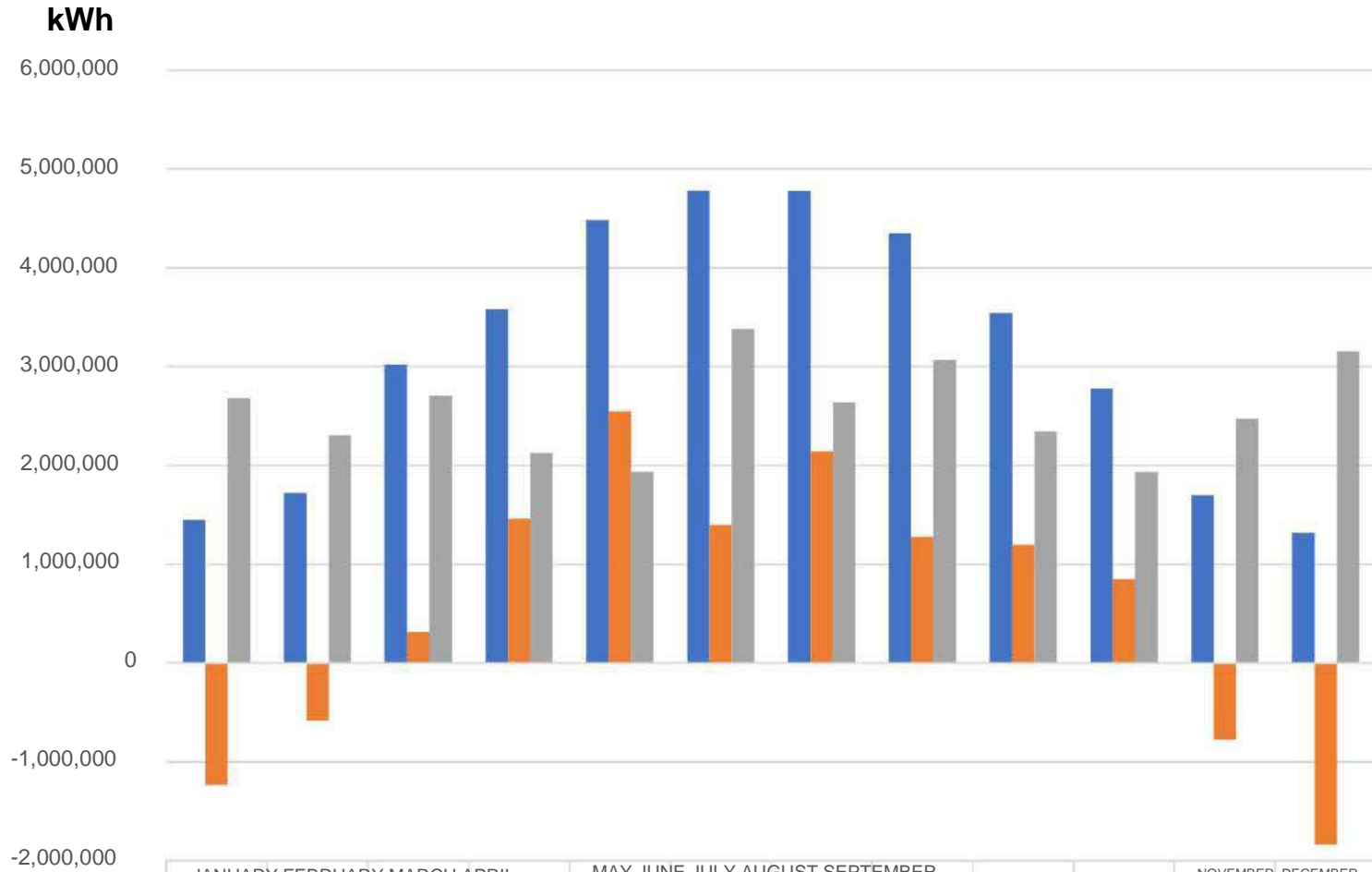
GAUN GES CAR 23.6 MWh MONTHLY ELECTRICITY GENERATION

	Radiation value (kwh/m ²)-Day	Day	Radiation value (kWh)-Month	23.6 kWh/ Month plant Radiation value
JANUARY	1.98	31	61,380	1,448,568
FEBRUARY	2.43	30	72,900	1,720,440
MARCH	4.13	31	128,030	3,021,508
APRIL	5.06	30	151,800	3,582,480
MAY	6.13	31	190,030	4,484,708
JUNE	6.75	30	202,500	4,779,000
JULY	6.53	31	202,430	4,777,348
AUGUST	5.94	31	184,140	4,345,704
SEPTEMBER	5.00	30	150,000	3,540,000
OCTOBER	3.80	31	117,800	2,780,080
NOVEMBER	2.40	30	72,000	1,699,200
DECEMBER	1.80	31	55,800	1,316,880
ANNUAL TOTAL PRODUCTION			1,588,810	37,495,916

GAUN GES MONTHLY PRODUCED AND CONSUMED ELECTRIC ENERGY COMPARISON (2022)

DATE	PV PLANT GENERATED kWh	kWh TRANSMITTED TO THE NETWORK	TOTAL CONSUMPTION kWh (2022)
JANUARY	1,448,568	-1,231,725	2,680.293
FEBRUARY	1,720,440	-584,518	2,304,958
MARCH	3,021,508	312,089	2,709,419
APRIL	3,582,480	1,459,120	2,123,360
MAY	4,484,708	2,547,882	1,936,826
JUNE	4,779,000	1,397,000	3,382,000
JULY	4,777,348	2,141,443	2,635,905
AUGUST	4.345.704	1,277,732	3,067,972
SEPTEMBER	3,540,000	1,198,382	2,341,618
OCTOBER	2,780,080	847,901	1,932,179
NOVEMBER	1,699,200	-771.731	2,470,931
DECEMBER	1,316,880	-1.838.142	3.155.022
TOTAL	37,495,916	6.755.433	30,740,483

GAUN GES MONTHLY PRODUCED AND CONSUMED ELECTRIC ENERGY COMPARISON 2022

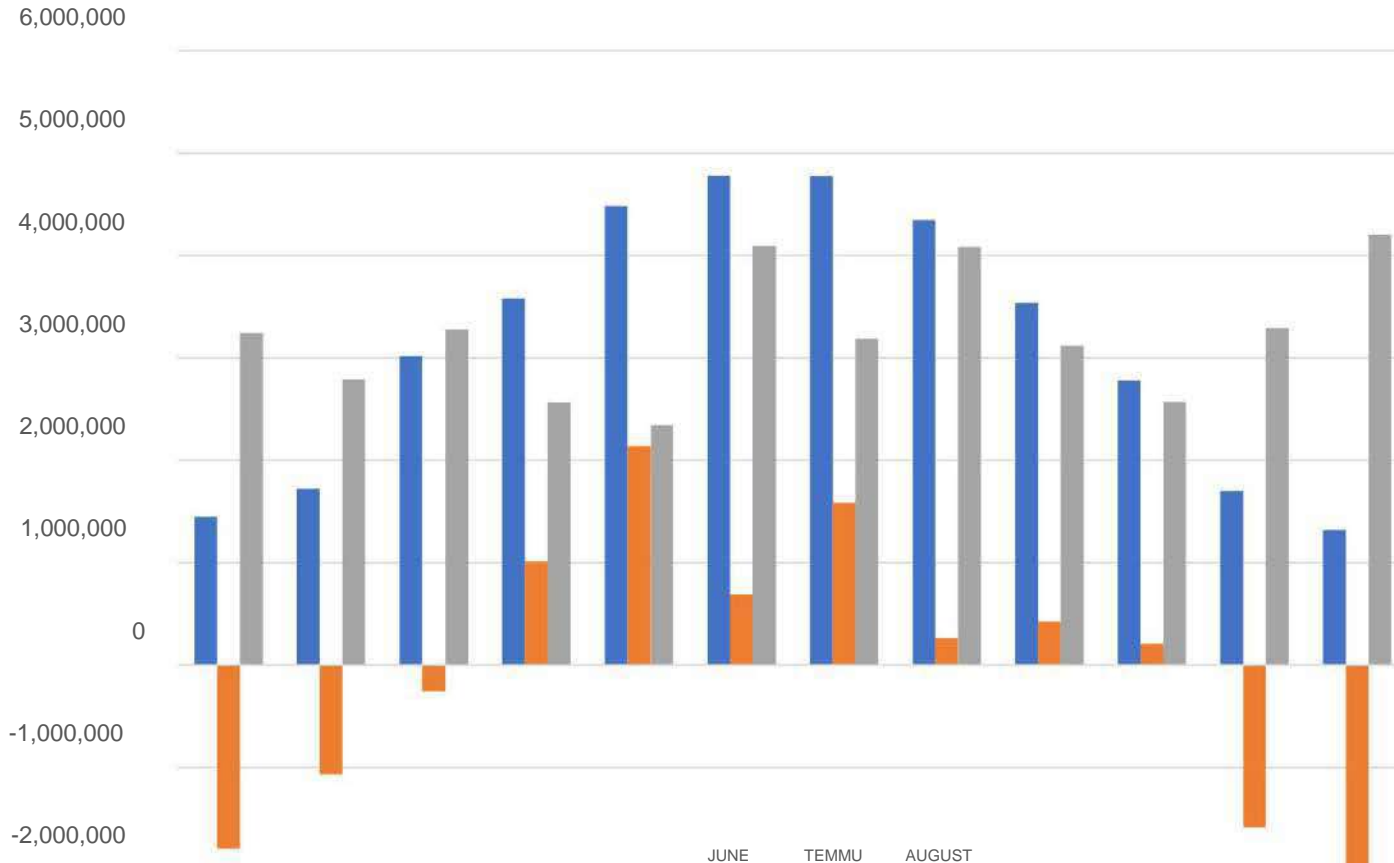


	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
■ PV PLANT GENERATED kWh	1,448,568	1,720,440	3,021,508	3,582,480	4,484,708	4,779,000	4,777,348	4,345,704	3,540,000	2,780,080	1,699,200	1,316,880
■ kWh TOTAL CONSUMPTION	-1,231.725	-584.518	312.089	1.459.120	2.547.882	1.397.000	2.141.443	1.277.732	1.198.382	847.901	-771.731	-1.838.142
■ TO THE NETWORK kWh (2022)	2.680.293	2.304.958	2.709.419	2.123.360	1.936.826	3.382.000	2.635.905	3.067.972	2.341.618	1.932.179	2.470.931	3.155.022

GAUN GES MONTHLY PRODUCED AND CONSUMED ELECTRIC ENERGY COMPARISON 2023

DATE	PV PLANT GENERATED kWh	kWh TRANSMITTED TO THE NETWORK	TOTAL CONSUMPTION kWh (2023)
JANUARY	1,448,568	-1,499,754	2,948,322
FEBRUARY	1,720,440	-815,014	2,535.454
MARCH	3,021,508	41,147	2,980,361
APRIL	3,582,480	1,246,784	2,335.696
MAY	4,484,708	2,354,199	2.130.509
JUNE	4,779,000	1,058,800	3,720,200
JULY	4,777,348	1,877,852	2,899,496
AUGUST	4.345.704	633,458	3,712,246
SEPTEMBER	3,540,000	706.642	2,833,358
OCTOBER	2,780,080	442,143	2,337,937
NOVEMBER	1,699,200	-1,290,626	2,989,826
DECEMBER	1,316,880	-2,500,696	3,817,576
TOTAL	37,495,916	2,254,935	35.240.981

kWh

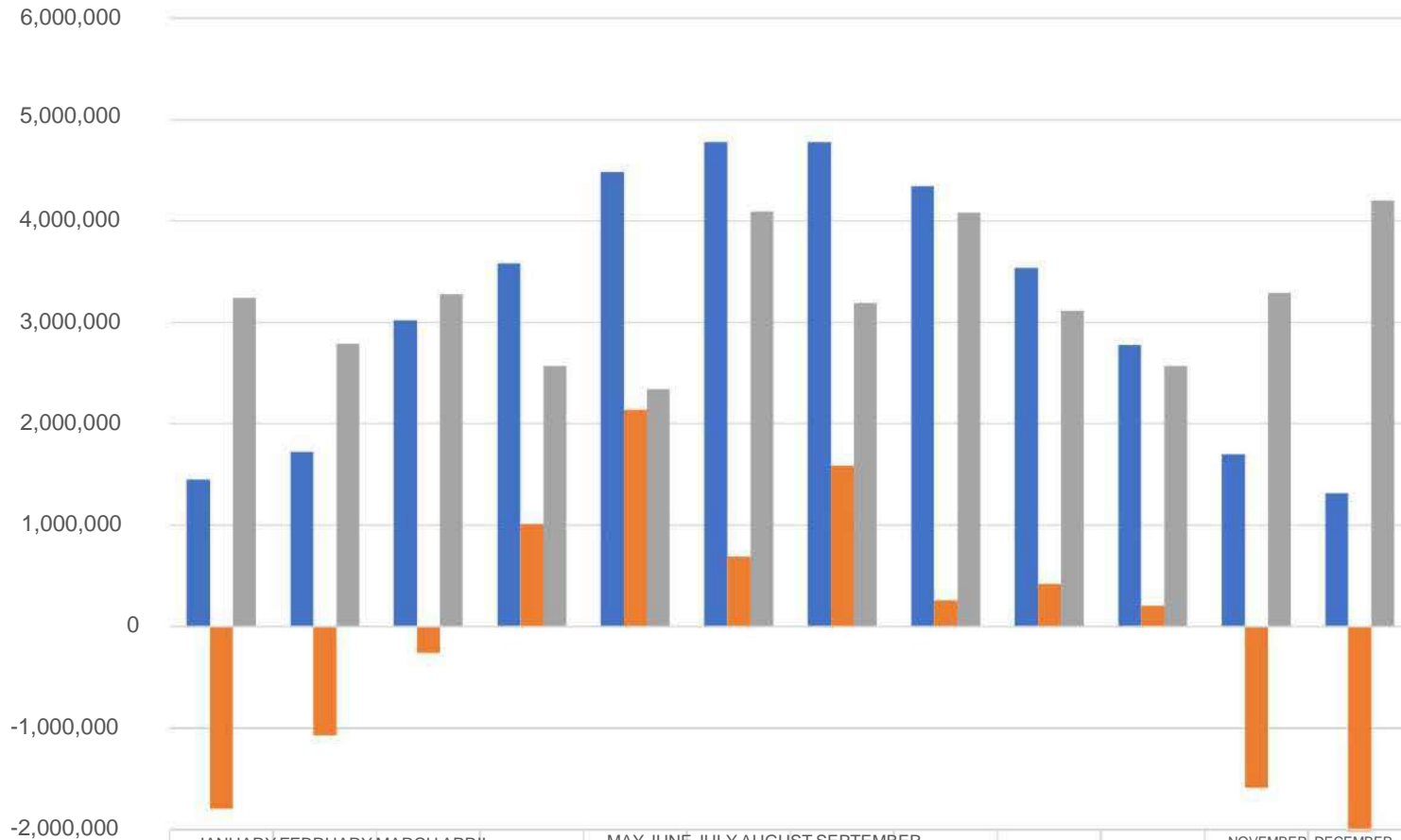


	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	TEMU N	Z	AUGUST	S	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
PV PLANT GENERATED kWh	1,448,568	1,720,440	3,021,508	3,582,480	4,484,708	4,779,000	4,777,348	4,345,704	3,540,000	2,780,080	1,699,200	1,316,880		
kWh TOTAL CONSUMPTION	-1,794.58	-1,068.55	-256.889	1,013.214	2,141.149	686.780	1,587.903	262.234	423.306	208.350	-1,589.60	-2,882.45		
TO THE NETWORK kWh (2022)	3,243.155	2,788.999	3,278.397	2,569.266	2,343.559	4,092.220	3,189.445	4,083.470	3,116.694	2,571.730	3,288.809	4,199.334		

GAUN GES MONTHLY PRODUCED AND CONSUMED ELECTRIC ENERGY COMPARISON 2024

DATE	PV PLANT GENERATED kWh	kWh TRANSMITTED TO THE NETWORK	TOTAL CONSUMPTION kWh (2024)
JANUARY	1,448,568	-1,794,587	3,243,155
FEBRUARY	1,720,440	-1,068,559	2,788,999
MARCH	3,021,508	-256.889	3,278,397
APRIL	3,582,480	1,013,214	2,569,266
MAY	4,484,708	2.141.149	2,343,559
JUNE	4,779,000	686,780	4,092,220
JULY	4,777,348	1,587,903	3,189,445
AUGUST	4.345.704	262,234	4,083,470
SEPTEMBER	3,540,000	423,306	3,116,694
OCTOBER	2,780,080	208,350	2,571,730
NOVEMBER	1,699,200	-1.589.609	3,288,809
DECEMBER	1,316,880	-2,882,454	4,199,334
TOTAL	37,495,916	-1,269,162	38,765,078

GAUN GES MONTHLY PRODUCED AND CONSUMED ELECTRIC ENERGY COMPARISON 2024



	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
PV PLANT GENERATED kWh	1,448,568	1,720,440	3,021,508	3,582,480	4,484,708	4,779,000	4,777,348	4,345,704	3,540,000	2,780,080	1,699,200	1,316,880
kWh TOTAL CONSUMPTION	-1,794,587	-1,068,559	-256,889	1,013,214	2,141,149	686,780	1,587,903	262,234	423,306	208,350	-1,589,609	-2,882,454
TO THE NETWORK kWh (2022)	3,243,155	2,788,999	3,278,397	2,569,266	2,343,559	4,092,220	3,189,445	4,083,470	3,116,694	2,571,730	3,288,809	4,199,334

[2.6] Electricity Usage per Year (in Kilowatt hour)

GAZIANTEP UNIVERSITY									
Main Campus Energy Consumption									
Building Group Name	Year	Number of Active Employees	Total Construction Area (m2)	Electricity Consumption (kWh)	Fuel Consumption				TOTAL CONSUMPTION (TEP)
					Natural gas (sm3)	Petrol (lt)	Diesel (lt)	Fuel-Oil (lt)	
MAIN CAMPUS	2022								
	2021	5,249	460,564	24,814,283	5,293,753	4,995	93,625	177,210	6,772
	2020	5,247	428,614	25,139,925	6,026,894	4,951	81,689	228,920	7,442
	2019	4,961	428,566	26,760,549	6,450,928	5,137	94,835	239,610	7,956
	2018	4,861	398,000	25,163,271	5,007,732	4,895	115,754	150,620	6,563
	2017	2,925	373,000	26,209,139	5,405,135	9,781	150,990	230,600	7,099
	2016	2,915	358,000	28,266,322	5,131,062	9,801	119,168	179,750	6,968
	2015	2,915	358,000	26,714,928	6,441,379	10,812	118,343	204,090	7,940
	AVERAGE			26,588,415	5,496,327	8,822	126,064	191,265	7,142

Description:

The total electricity usage of Gaziantep University in 2021 is 24814283 kWh. On the main campus area of Gaziantep University, electricity is used for lighting, cooling, heating, and laboratory appliances.

[2.8] Renewable Energy Sources in Campus



Gaziantep University Renewable Energy Potential Determination and 1 mW Solar Power Plant and Energy Monitoring, Management and Analysis Central Laboratory Establishment

gaziantepeuniv.edu.tr/fact=staff&fact2=proje_detay&mode=clear&id=7567

gaziantepeuniv.uyeni yenilenebilir enerji potansiyelinin belirlenerek 1 mw güneş enerjisi santrali ile enerji izleme, yönetim ve analiz merkez laboratuvarı kurulumu

Doç.Dr. Adem ATMACA

Proje Düzenle

Proje Özeti

- Detay Bilgileri
- Proje Kısaları
- Sabitlenmiş Talepler
- Düzenlenen Talepler
- Diğer Ek Talepler
- Yolculuk Talepleri
- Malzeme Listesi
- Demirbaş Malzemeler
- Yapılan İşlemler
- Proje Raporları
- Proje Personeli
- Proje Materyalleri
- Proje Yayınları

Proje Özeti

Proje No: MKAL1.26.02

Proje Yürüten Fakülte / Bölüm: Mühendislik Fakültesi / Enerji Sistemleri Mühendisliği

Proje Türü: Altyapı Projesi

Proje Durumu: D7 - Proje tamamlandı

Proje Disiplinler Arası mı?: Hayır

Eklenme Tarihi: 09-04-2019 14:41:10

Başlama Tarihi: 12-03-2020

Bitiş Tarihi: 12-03-2022 (Tamamlandı) Tarih: 11-05-2022

Kesin Rapor Bitiş Tarihi: 17-03-2022

Önerilen Süre: 12 AY

Kabul Edilen Süre: 12 AY + 12 AY (EK SÜRE)

Önerilen Bütçe: 4.985.000,00

Kabul Edilen Bütçe: 5.535.000,00

Proje Personelleri: Proje Yürütücüsü Doç.Dr. Adem ATMACA

Bütçe Özeti

Önerilen	4.985.000
Kabul	5.535.000
Ek Bütçe	550.000
Harcanan	3.208.568,40
Kalan	2.326.432

Proje Raporları

1. Ara Rapor: 16-09-2020
2. Ara Rapor: 17-03-2021
3. Ara Rapor: 17-09-2021
- Sonuç Raporu: 17-03-2022

Form ve Ekler

Çıktı Alınacak:

- Proje Öneri Formu
- Bölüm/ABD Bşk Ön Değerlendirme Formu
- Dekan/Müdür Ön Değerlendirme Formu
- Doç.Dr. Adem ATMACA (Proje Yürütücüsü)
- Sözleşme Formu
- Proje Sunuş Bölümü

Windows'u etkinleştirin
Windows'u etkinleştirmek için Ayarlar'a gidin.

PROFORMA10.docx

Description:

No	Renewable Energy	Production (in kWh)
1	Solar panel	1498783
	Total	1498783

$$1,498,783/24,814,293 = \%6.04$$

[2.10] Greenhouse gas emission reduction program



Gaziantep University Renewable Energy Potential Determination and 1 mW Solar Power Plant and Energy Monitoring, Management and Analysis Central Laboratory Establishment



gaziantep üniversitesi yenilenebilir enerji potansiyelinin belirlenerek 1 mw güneş enerjisi santrali ile enerji izleme, yönetim ve analiz merkez laboratuvarı kur

Doç.Dr. Adem ATMACA

Proje Özeti

Proje No: MK.ALT.20.02

Projeyi Yürüten Fakülte / Bölüm: Mühendislik Fakültesi / Enerji Sistemleri Mühendisliği

Proje Türü: Altyapı Projesi

Proje Durumu: D7 - Proje Tamamlandı

Proje Disiplinler Arası mı?: Hayır

Eklenme Tarihi: 09-04-2019 14:41:10

Başlama Tarihi: 12-03-2020

Bitiş Tarihi: 12-03-2022 (Tamamlandı) Tarihi: 11-05-2022

Kesin Rapor Bitiş Tarihi: 17-03-2022

Önerilen Süre: 12 AY

Kabul Edilen Süre: 12 AY + 12 AY (EK SÜRE)

Önerilen Bütçe: 4.985.000,00

Kabul Edilen Bütçe: 5.535.000,00

Proje Personelleri: Proje Yürütücüsü Doç.Dr. Adem ATMACA

Bütçe Özeti

Önerilen: Kabul

Ek Bütçe: Harcanan

Kalan*

Proje Raporları

1. Ara Rapor: 18-09-2020
2. Ara Rapor: 17-03-2021
3. Ara Rapor: 17-09-2021
- Sonuç Raporu: 17-03-2022

Form ve Ekler

Çıktı Alınacak:

- Proje Öneri Formu
- Bölüm/ABD Bşk Ön Değerlendirme Formu
- Dekan/Müdür Ön Değerlendirme Formu
- Doç.Dr. Adem ATMACA (Proje Yürütücüsü)
- Sözleşme Formu
- Proje Sonuç Bölümü

Çıktı Alınmayacak: Windows'u etkinleştirin. Windows'u etkinleştirmek için Ayarlar.

PROFORMA10.docx

Description:

No	Renewable Energy	Production (in kWh)
1	Solar panel	1498783
	Total	1498783

$$1,498,783/24,814,293 = \%6.04$$

Additional evidence link:



GAZIANTEP UNIVERSITY

ENERGY MANAGEMENT CENTRAL DIRECTORATE

2021-2024

ENERGY STRATEGIC PLAN

Associate Professor. Adem ATMACA

October 2020

Reason for Establishment

- **Energy Efficiency Law** (Energy Efficiency dated 18.04.2007 and numbered 5627)
- **Efficiency in Energy Resources and Use of Energy Regulation** and Ministry of Energy and Natural Resources Regulation No. 28097).
- **Efficiency in Energy Resources and Use of Energy** Regarding the Amendment to **the Regulation** on Regulation (In the Official Gazette No. 31019 dated **25 January 2020**)

Reason for Establishment

- **PUBLIC INSTITUTIONS** that meet the following conditions
- Assignment of an **Energy Manager** is MANDATORY .

- Total construction area is at least **10,000 m2**
- Annual energy consumption is **250 TEP** and above

- Total construction area of our university is **428,000 m2** • .
Annual energy consumption is **6200 TOE**.

ADMINISTRATIVE FINE

- From the Ministry of *Energy and Natural Resources* :
- **ARTICLE 10 OF THE ENERGY EFFICIENCY LAW NO 5627**
COMMUNIQUE ON ADMINISTRATIVE FINES TO BE IMPLEMENTED IN 2020
(ORDER NUMBER: 2020/1)

Enerji Yöneticisi Bulundurmama durumunda İdari Para Cezaları;

➔ İdari Para Cezaları ➔

5627 Sayılı Enerji Verimliliği Kanununun 10 uncu Maddesinin birinci fıkrasının	Kanunda Öngörülen Para Cezaları (TL)	2019 Yılında Uygulanan Para Cezaları (TL)	2020 Yılında Uygulanacak Para Cezaları (TL)
(a) Bendinin (2) Numaralı Alt Bendindeki Ceza Miktarları	10.000 50.000	27.901 139.542	34.201 171.050

- Educated in the field of engineering,
- Having serious knowledge, experience and experience in energy management
- **Energy Management** from an institution authorized by the Ministry, which has practical and theoretical studies in the market and in academia.
- Completed **his education successful by taking the exam** prepared by the General Directorate
- Right to receive the "**Energy Manager Certificate**"
- Appointment of a public institution as an energy manager is approved by **the** ministry.

Energy Manager

- **Assoc. Prof. Dr. Adem ATMACA** •

Mechanical Engineering Energy

Department Member.

- He passed the **exam** prepared by the General Directorate in 2018 and was successful, and was awarded the "**Energy Manager**" by the General Directorate by obtaining the "**Certificate**."
- **Appointed as Gaziantep University Energy Manager.**

Assoc. Prof. Dr. Adam Atmaca

Energy Manager Certificate No: 2918

Mandatory Notices

- Energy Manager
- Following **the current energy consumption values** of Gaziantep University by entering these values **into the system prepared by the Ministry** regularly and has to create projects on Energy Management and reduce the energy consumption values of the institution.

Kullanıcı Giriş

Yeni Kullanıcı

Yenilenebilir Enerji Genel Müdürlüğü

aatmaca@gantep.edu.tr

Şifremi Unuttum

Ben robot değilim



reCAPTCHA
Gizlilik - Şartlar

Lütfen güvenlik kodunu giriniz

Giriş Yap

Fabrikalarımızın Verimliliğini
Artırırken, Ülkemizin de
Enerji Varlıklarını
Koruyalım



Energy Center Regulation

- By the Prime Ministry Legislation Development and Publication General Directorate
March 5, 2018 **Official Gazette** Number: 30351
- **GAZIANTEP UNIVERSITY ENERGY MANAGEMENT IMPLEMENTATION AND RESEARCH CENTER REGULATION** was prepared and published.
- <http://www.resmigazete.gov.tr/eskiler/2018/03/20180305-2.htm> 1/3

Energy Center Building Project

TR MINISTRY OF DEVELOPMENT

SOUTHEASTERN ANATOLIA PROJECT

REGIONAL DEVELOPMENT ADMINISTRATION

PROJECT NAME: Sustainable Green Prototype Building Application

SUSTAINABLE GREEN PROTOTYPE BUILDING APPLICATION



Energy Center Building

- SANKO HOLDING
- Mr. Abdulkadir KONUKOGLU
- Ytong Wall elements were received as a grant.



- AUSTROTHERM
- Mr. Tolga CELAYER
- EPS Insulation Materials were received as a grant.



Energy Center Building



The Center started its work as of 2019



Status of the University

GAZIANTEP UNIVERSITY Total Energy Consumption

Building group	Year	Active Worker Number	Total Build Area (m2)	Electric Consumption (kWh)	Electric Consumption (TEP)	Fuel consumption				Fuel Consumption (TEP)	TOTAL CONSUMPTION (TEP)	
						Natural gas (cm3)	Gasoline (lt)	Diesel (lt)	Fuel-Oil (lt)			
First Name												
CENTRAL CAMPUS	2019	4,961	428,566	27,980.110	2,406	4,210,195	5,137	93.835	239,610		3,787	6,194
	2018	4,861	398,000	25,164,271	2,164	4,232,477	4,895	115.754	230,000		3.815	5,979
	2017	2.925	373,000	26.209.139	2.254	5.405.135	9.781	150.990	230.600		4.816	7.070
	2016	2.915	358.000	28.266.322	2.431	4.744.827	9.801	119.168	179.750		4.196	6.627
	2015	2,915	358,000	26,714,928	2,297	6,441,379	10.812	118,343	204,090		5.619	7,916
AVERAGE				26.866.954	2.311	5.006.803	8.085	119.618	216.810		4.447	6,757
										AIM	5,676	

Gaziantep University Total Energy Expenses (TL)

Year	Electric TL	Natural gas TL	Fuel (TL)			TOTAL (TL)
			Gasoline	Diesel	Fuel-Oil	
2015	9,558.009	6,716.285	47,205	443,514	375,804	17.140.816
2016	10.745.454	4,589,240	42,746	419,143	352,810	16.149.393
2017	10.479.112	4,217,231	51,166	707,295	728,547	16,183,351
2018	11,778,854	6,287,805	27,388	588,474	797,623	19.480.144
2019	20.583.968	7.915.078	34.231	562.621	1.798.874	30,894,771

WHAT ARE WE DOING?

Important!

- For public buildings that are obliged to appoint energy managers in accordance with the Energy Efficiency Law No. 5627, within the scope of the “Saving Target and Implementation Guide in Public Buildings” published by the Ministry of Energy and Natural Resources in accordance with the Circular of the **Presidency** dated 15/08/2019 and numbered 2019/18
- Our university **is requested to achieve a minimum of 15% energy savings until the end of 2023.**

Important!

- In this context;
- The energy consumption of our university in terms of TEP for the years 2016, 2017 and 2018 was **investigated**, and the **reference consumption was calculated** by taking the arithmetic average of these values.
- The **first notification** was made to the Ministry in March 2020.

Important!

- Realization rates of energy saving targets will be submitted to the **Presidency** by the Ministry in the first half of 2024 and
- Those who save **less** than 14% are **considered unsuccessful**,
- Those who save between 14% and 16% are **considered "successful"**,
- Those who save **more** than 16% are considered **"super successful"**.

Important!

- Unsuccessful ones submit their reasoned reports to the **Ministry** until the end of 2024.
- For institutions and organizations whose justifications are deemed appropriate, monitoring will be carried out to achieve the 18% energy saving target, without changing the reference consumption, until the end of 2026.
- **Institutions and organizations that fail and whose justifications are not deemed appropriate will be reported to the Presidency for final evaluation.**

What to do in future;

- Gaziantep University
- Considering the annual energy consumption data,
- Increasing energy efficiency,
- **Projects that will play an important role in reducing consumption.**

Project 1 (2020)

- Energy Monitoring and Management System

Installation • (Approximately 2,000,000 TL) • BAP

(GAUN)

2. Project (2021)

- Boiler room, hot water line insulation and revision.
- (Approximate cost 5.000.000 TL)
- Ministry

3. Project (2022)

- 2 MW Solar power plant installation on university roofs.
- (Approximate cost 8.000.000 TL)
- Ministry

4. Project (2022)

- **10 MW Araban Solar Power Plant Project**

- In the 5th article of the letter dated 25.01.2017 and numbered 74587075-010.99-922 sent to the Universities by the Ministry of Finance; *"Providing the energy needed for heating, cooling and lighting from renewable energy sources such as solar, wind and geothermal is important in terms of both saving the current expenditures and reducing the current account deficit, as well as protecting the natural environment.*

- TO MINISTRY OF FINANCE

- Ref: Our 2 letters dated 17.02.2017 and numbered 92244702/602.07.03/3369.

- Subject: Solar Power Plant Project

- Application has been made for 8 MW + 2 MW,
- **We are waiting for approval for 8 MW.**

5. Project (2023)

- Building insulation
- (Approximate cost 10.000.000 TL)
- Ministry

Important !

- With the aim of realizing the energy saving targets to be submitted to the Presidency in 2023, saving over 16% and entering the “**super successful**” classification.
- Relevant projects, which are of great importance in the 2021 program, are expected to reduce our energy consumption by approximately **50** % .
- With the energy efficiency investments to be made, it is anticipated that an annual average of **15 million TL** savings will be achieved as of 2024.

ONGOING ACTIVITIES

1- 1 MW SPP

- 1 MW Rooftop Solar Power Plant Installation (BAP). • The tender process has been completed for the project with a project cost of 4,050,000 TL.
- 15% energy consumption of the central campus will be reduced.
- Annual profit of 1,200,000 TL will be obtained.
- Project payback will be less than 4 years .

2- Compensation

- Project for the elimination of compensation faults in campus transformers. (BAP).
- The annual fine of 500,000-1,000,000 TL due to energy fluctuations will be eliminated.
- The project with a project cost of approximately 380,000 TL has been accepted and the procurement process has been initiated.

3- Ministry notifications

- Making regular notifications to the Ministry

The screenshot displays the 'Enerji Tüketici Varlık (ETV) - Bina Tanımla (GAZİANTEP ÜNİVERSİTESİ / 2018)' page. The left sidebar contains navigation options: 'Enerji Tüketici Varlık Künye Bilgisi', 'Enerji Tüketici Varlık Tarihçesi', 'Enerji Tüketim Bildirimi (Kapsam İçi)', 'Envanter Bilgileri', 'Enerji Tüketimi Veri Bilgileri (Referans Bilgileri)', and 'Enerji Yöneticisi Tarihçesi'. The main content area shows the following information:

Adı Soyadı:	GAZİANTEP ÜNİVERSİTESİ REKTÖRLÜ
Görevi:	REKTÖR
Telefon:	0(342)-360-12-00
Cep Tel. Numarası:	
Faks:	
E- Posta:	

Below this, there is a search section for 'Enerji Yöneticisi Sorgula' with 'Enerji Yöneticisi:' set to 'Var' and 'TCKN:' set to '33257303938'.

At the bottom, there is a section for 'Enerji Yöneticisine Ait Bilgiler' with the following details:

Ad:	Adem
Soyad:	ATMACA
Sertifika Türü:	EY
Sertifika No:	2918
Telefon / Faks:	0(342)-360-12-00
Cep Tel. Numarası:	----
Elektronik Posta:	ADEMATMACA1@gmail.com

4- Tubitak 1001 project

- The project prepared within the scope of “Investigating the life cycle energy consumption and carbon dioxide emissions of residential buildings in Turkey by calculating the national embedded energy values for different cement types ” was submitted to Tübitak.

5- International Energy and Engineering Congresses (IEFC)

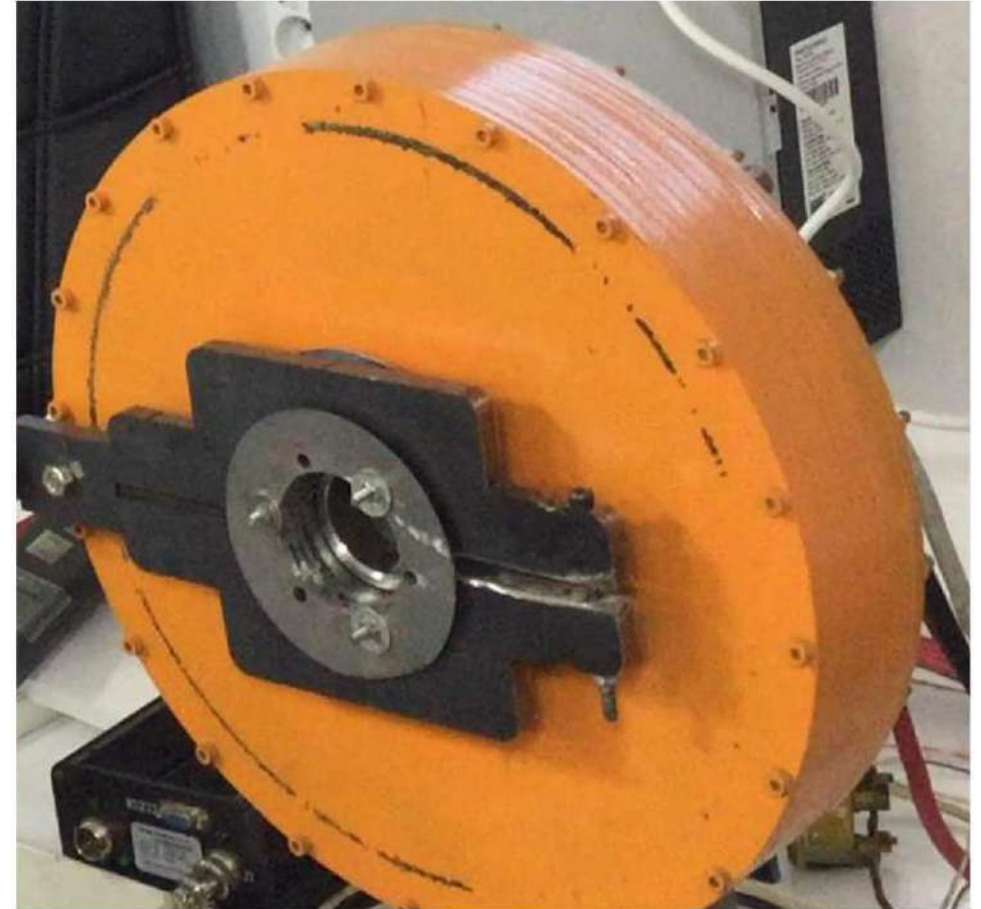
- An international congress was held for the first time in 2016.
- In 2019, more than 500 participants from 11 different countries participated in the 4th IEMK 2019.
- Our international congress, which has become the tradition of our university, was postponed to 2021 due to the Covid-19 outbreak in 2020.

6- TÜbitak Dergipark International Journal (IJEES)

- Established in 2016 as “The International Journal of Energy and Engineering Sciences”, our journal has been published within DergiPark for 5 years.
- It is an international journal established for the publication and dissemination of original works that form the basis of machinery, construction, food, industry, textiles, computers, electricity and electronics.

7- Electric vehicle engine design

- Compact torus type brushless axial electric motor with high torque and power values
 - Developed and applied for patent.
-
- **PATENT NO: 2019/06733**



8- Adsorption cooling system design

- The design of the new absorption cooling system, which was donated to our university in order to operate the cooling systems with solar energy independent of electricity, will be examined and the missing equipment will be supplied, the system will be commissioned and analyzed.

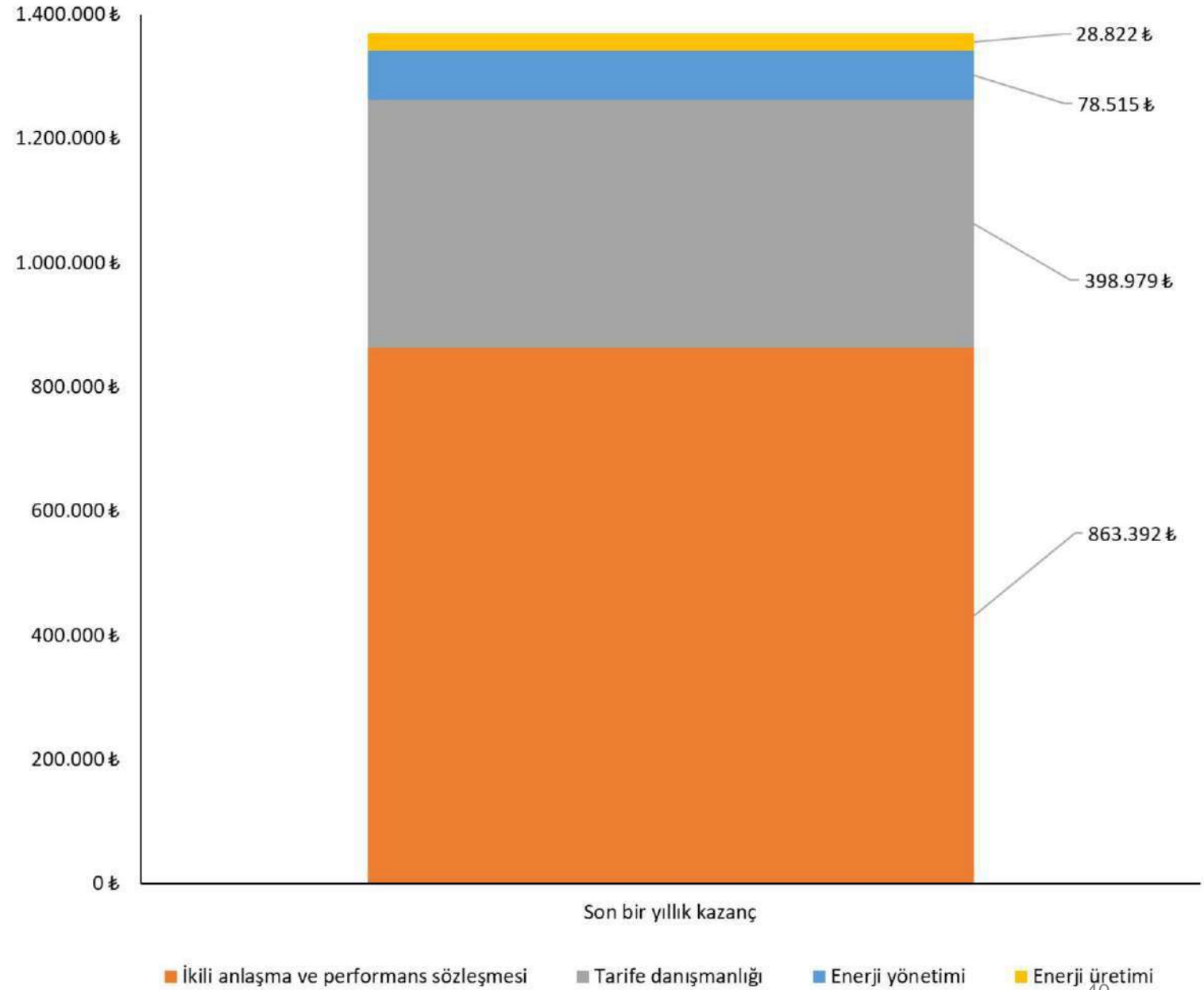


FINANCIAL GAINS

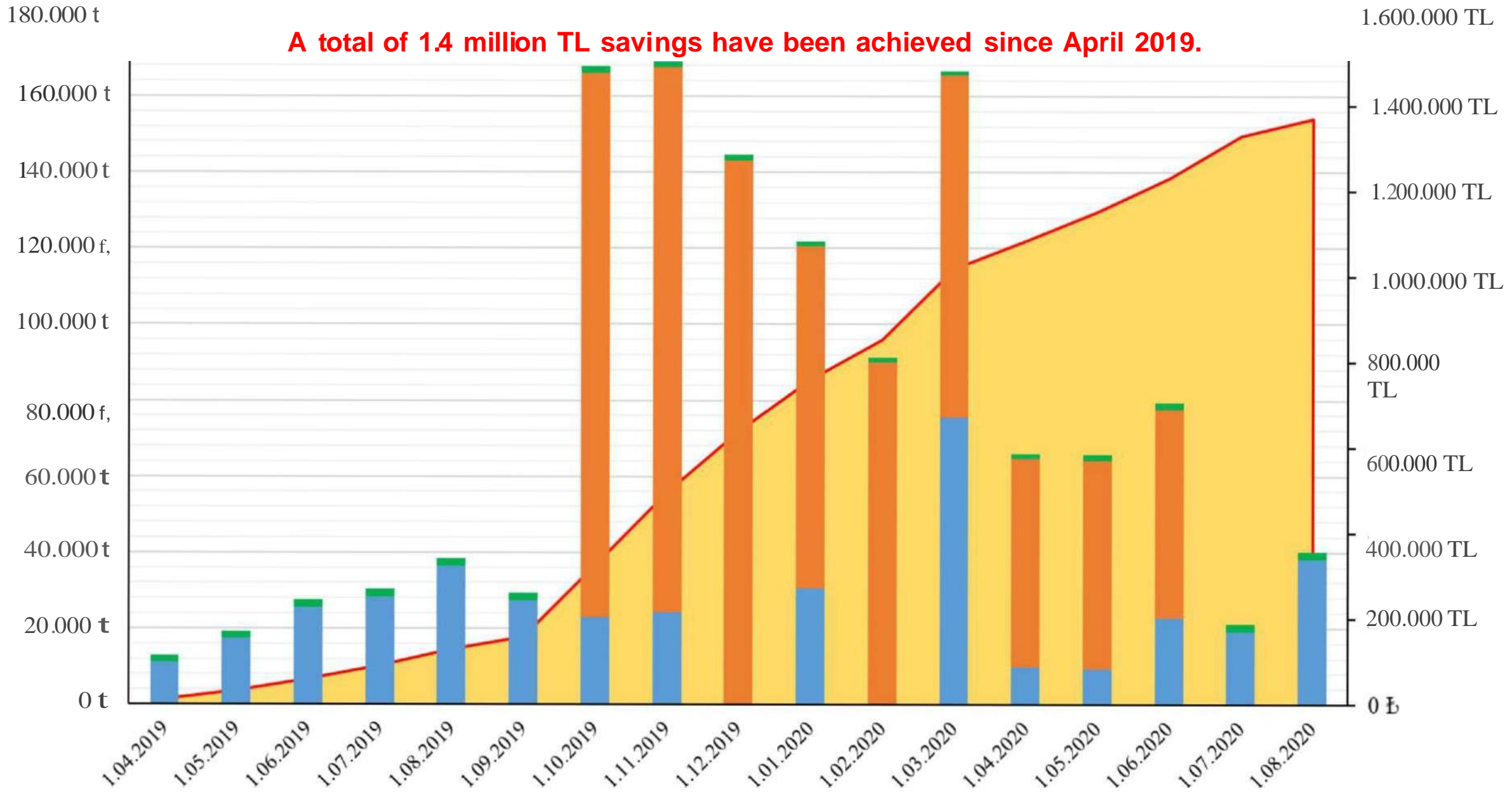
Last 1 year !

Financial gains

- Financial gain in the last 1 year .
- TOTAL
- 1.4 MILLION TL.



A total of 1.4 million TL savings have been achieved since April 2019.



2.11. Please Provide the Total Carbon Footprint (CO₂ emission in the last 12 months, in metric tons)

Type	Consumption	Consumption Unit	Conversion factor	Conversion factor unit	TOTAL (CO ₂ metric tons)
Electricity	24,814,283	kWh	0.707	kgCO ₂ /MWh	17,543.70
Transportation per year (Bus)	77,976	liter (diezel)	2.69	kgCO ₂ /liter	209.76
Transportation per year (Service car)	3,659	liter (gasoline)	2.35	kgCO ₂ /liter	8.60
Transportation per year (Private cars)	2,975	liter (gasoline)	2.35	kgCO ₂ /liter	6.99
Natural gas	5,293,753	Sm ³	1.938	kgCO ₂ /m ³	10,259.29
				TOTAL	28,028.34

Description:

Electricity Consumption values were obtained from the notification page sent to the Ministry of Energy. Consumption values related to buses, shuttles and personal vehicles were taken from the notification page transmitted to the Ministry of Energy and from Gaziantep University Facility Operation Directorate. Conversion factors are taken from the official website. The values related to fuel consumption were taken from Gaziantep University Security Control Directorate.

[2.13] Number of innovative program(s) in energy and climate change

GREEN TRANSFORMATION MENTORING PROGRAM

Gaziantep University, which also operates in the Gaziantep Organized Industrial Zone, cooperates with a team of academics who are at the international level in many disciplines and have a certain experience, competence and motivation in "university-industry collaborations", who conduct research, training or practice activities on the "Green Agreement". European Green Deal harmonization processes, carbon footprint calculation in the industry application program called "Green Deal" within the scope of the "Supporting Green and Digital Transformation for Employment" Project carried out in cooperation with the Chamber of Industry (GSO) and the German International Cooperation Organization (GIZ) PEP Program Mentoring services were provided for 16 weeks on supporting transformation processes .

Mentoring Service Content;

1. Detailed information and training on the Green Deal
2. Calculation of Corporate Carbon Footprint in accordance with Scope 1-2 and ISO 14064 standard. Providing installation and application training of the related software.
3. Informing and guiding the processes of obtaining the Corporate Carbon Footprint ready for verification report.
4. waste management and symbiotic relationships in the enterprise
5. Green Energy Certificate and information and training on obtaining this certificate
6. Information and training on the processes related to the establishment of ISO 14001 Environmental Management System
7. Information and training on the subject of Water Footprint
8. Information and training on the Green Label issue

3. WASTE (WS)

3.1. Recycling Program for University Waste





Description:

There are 2 programs for recycle in Gaziantep University which reflects the current condition of our university efforts to encourage staff and students to recycle waste.

First of all, the wastes are collected according to their type; glass, paper, plastic, metal, and battery in Gaziantep University. Then, one of the city municipalities (Sehitkamil Municipality, http://mop.gen.tr/?page_id=86) collect all these waste from all around the campus and treat them in their facility weekly. . Besides, SEKA (a government organisation) collects all paper based wastes from all government institutions all around Turkey, and recycles the wastes.

3.2. Program to reduce the use of paper and plastic on campus

Description:

There are 4 programs for recycle in Gaziantep University which reflects the current condition of our university efforts to encourage staff and students to recycle waste.

First of all, the wastes are collected according to their type; glass, paper, plastic, metal, and battery in Gaziantep University. Then, one of the city municipalities (Sehitkamil Municipality, http://mop.gen.tr/?page_id=86) collects all these waste from all around the campus and process them in their facility weekly. Besides, SEKA (a government organisation) collects all paper based wastes from all government institutions all around Turkey, and recycles the wastes.

Thirdly, The Electronic Document Management System enables a saving on paper, pencil, plastic etc. and is the system that enables the archiving and management of all kinds of documentation created by the institutions during their activities in the process from production to final liquidation. With EDMS, by ensuring that our correspondence between our internal units and other public institutions and organizations is made in computer environment;

- * Standardization of correspondence,
- * Shortening the delivery, initial and approval periods of correspondence,
- * Saving on labour, time and stationery costs,
- * It is aimed to archive the correspondence in a healthy way.

Lastly, Savings Measures taken by the Turkish Presidency are extensively implemented in Gaziantep University, in which it has been deemed necessary to take the measures in relation to saving from the expenses of public institutions and organizations, reducing bureaucratic procedures and effective use of official vehicles.

3.3. Organic Waste Treatment







Description:

In accordance with the zero waste project, the organic and inorganic waste that can be recycled is collected separately with the boxes placed in various parts of the campus. It is collected and processed by the central waste system by the Gaziantep Metropolitan Municipality every day.

3.4. Inorganic Waste Treatment





Description:

Inorganic Waste treatment in Gaziantep University is carried out with a comprehensive cooperation with Gaziantep Metropolitan Municipality and Şehitkamil District Municipality. The wastes are collected according to their type; such as glass, paper, plastic, metal, and battery, in Gaziantep University. Then, one of the city municipalities (i.e. Şehitkamil Municipality, http://mop.gen.tr/?page_id=86) collect all these waste from all around the campus and treat them in their facility weekly.

3.5. Toxic Waste Treatment



Description:

The sources of toxic waste in Gaziantep University are hospitals and laboratories. The hospital stores hazardous waste at the temporary waste collection location near the hospital (See Figure) before sending it to the Municipality and related companies for processing in accordance with the Integrated Environmental Information System - Waste Management of the Ministry of Environment and Urbanization. These wastes are collected and processed within the scope of agreements made with Gaziantep Metropolitan Municipality and private companies.

3.6. Sewage Disposal



ATIKSU ARITMA TESİSLERİ ŞUBE MÜDÜRLÜĞÜ

Merkez Biyolojik Atıksu Arıtma Tesisi:



PROJE NÜFUSU: 1.000.000 + 1.000.000 Kişi

DEBİ : 300.000 M3/GÜN

DEVREYE ALMA TARİHİ : Kasım 1999

PROSES TİPİ : Biyolojik Arıtma

ÇAMUR MİKTARI : 210 ton/gün-%27



BOYUKSİRKER
GAZİANTEP



Description:

Sewage Disposal of our university is transferred via the main sewerage system to the main Sewage Treatment and Processing Plant of Gaziantep Metropolitan Municipality. There all the sewage of Gaziantep city is processed. Within the scope of this work, the capacity of the existing wastewater treatment plant has reached 400,000 cubic meters / day (2 million people), the newly built facility has been built as an advanced biological wastewater and sewage treatment plant and can also remove nitrogen and phosphorus.

[4] Water (WR)**4.2. Water Recycling Program Implementation**

Sewage Disposal of our university is transferred via the main sewerage system to the main Sewage Treatment and Processing Plant of Gaziantep Metropolitan Municipality. There all the sewage of Gaziantep city is processed. Within the scope of this work, the capacity of the existing wastewater treatment plant has reached 400,000 cubic meters / day (2 million people), the newly built facility has been built as an advanced biological wastewater and sewage treatment plant and can also remove nitrogen and phosphorus.

Next, the recycled water is transferred with a separate pipe system to all around the city and the university to be used for garden sprinkler system, toilet flush, cooling/heating systems, aquaponics and used in fish ponds.



4.3. Water Efficient Appliances Usage (e.g. hand washing taps, toilet flush, etc.)





PRO AYARLANABİLİR NOZULLAR

Herhangi bir açı ayarında optimum payzaj alanı kapsamı için Pro Ayarlanabilir Nozulları seçin.

ÖNEMLİ AVANTAJLAR

- Maksimum tasarım esnekliği için 0° ile 360° arasında ayarlanabilir
- Basit ayarlama için kavraması kolay üst bölüm
- Daha iyi rüzgar direncine sahip iyi biçimlendirilmiş güçlü kenarlar
- Büyük su damlacıklarını sistemleri en aza indirirken daha iyi bir üförmite sağlar

EK ÖZELLİKLER

- Her nozulda 8A ile 17A arasında eşleştirilmiş yağmurlama oranı
- Eşit dağılım daha iyi kapsamıyla sonuçlanır
- Sahada kolay tanınması için renk kodlu

ALİŞMA TEKNİK ÖZELLİKLERİ

- Önerilen çalışma basıncı: 2,1 bar, 210 kPa
- 2,1 bar'a kadar basınç ayarı için Pro-Spray PRS30 ile kullanım
- Garanti süresi: 2 yıl

Pro Ayarlanabilir Nozul



4A Nozul
Atış mesafesi: 1,2 m



6A Nozul
Atış mesafesi: 1,8 m



8A Nozul
Atış mesafesi: 2,4 m



10A Nozul
Atış mesafesi: 3,0 m



12A Nozul
Atış mesafesi: 3,7 m



15A Nozul
Atış mesafesi: 4,6 m



17A Nozul
Atış mesafesi: 5,2 m

Description:

Some examples of water conservation measures include, cisternisers (automatic control of urinal flushing), waterless urinals, low flush WC's and low flo taps and automatic taps. Besides, all-purpose nozzles are set up all around the campus and the gardens, and grass and trees are watered with this automated nozzles, which are timely adjustable and water efficient. Attached is the water bills of the university for the last 2 years.

4.4. Treated water consumed



Arıtılmış su cihazları.



Arıtılmış su cihazları.

Description:

25% of treated water is consumed in Gaziantep University. In the heating and cooling systems of our university, treated water is used both in the heat plant main centre and in the heat exchange stations under our 45 buildings

[5] Transportation (TR)

5.4. The total number of vehicles (cars and motorcycles) divided by total campus' Population

No.	Vehicle	Total Number
1	Car managed by the university	75
2	Cars entering the university	6400
3	Motorcycles entering the university	420
	Total	6895

$5.4 = 6895 / 51725 \text{ (population)} = 0.13$

5.5. Shuttle service



Description

The Directorate of Vehicle Operations carries out the transportation of the university personnel between various districts and our campus, the transportation of the students for lessons, technical trips, sportive and cultural activities, the transportation of the units with ring services within the campus, and the services of the authorities.

5.6. The number of shuttles operated in Gaziantep University is **13**.

5.7. Average number of passengers of each shuttle is 27.

5.8. Total trips of shuttle services each day is 2.

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

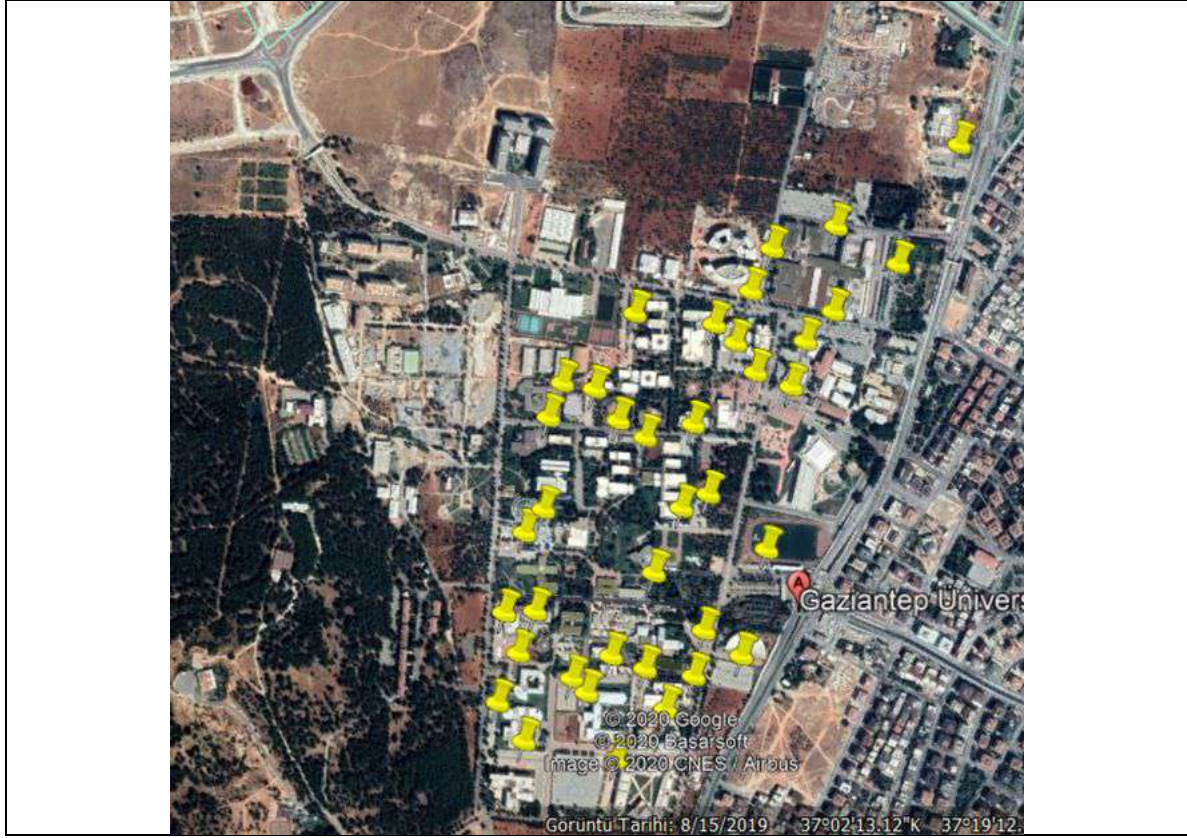


Description:

There is 1 zero emission vehicle and it provides ring service within the university. It covers approximately 80 km daily. There are 500 bicycles and 1 electric minibus. They are all used actively.

[5.13] Ratio of Parking Area to Total Campus Area

[5.13] Ratio of Parking Area to Total Campus Area



Description:

Total main campus area: 1425594 m²

Total parking area = 55000 m²

Ratio = 0.25

[5.14] Program to limit or decrease the parking area on campus for the last 3 years (from 2019 to 2021)

[5.15] Number of Transportation Initiatives to Decrease Private Vehicles on Campus



Campus Bikes (Gaziantep University)



Campus Shuttle (Gaziantep University)



Plate Notification System (Gaziantep University)

[5.16] Pedestrian Path Policy on Campus



Example of pedestrian path (Gaziantep University)



Example of pedestrian path (Gaziantep University)



Solar Street lamps for pedestrians at night

[6] Education and Research (ED)

6.1. Number of Courses/Subjects Related to Sustainability Offered

No	Course Name	Course Name
1	ALTERNATİF ENERJİ SİSTEMLERİ	ALTERNATIVE ENERGY SYSTEMS
2	ELEKTRİK ENERJİSİ ÜRETİMİ, İLETİMİ VE DAĞITIMI	ELECTRIC ENERGY GENERATION, TRANSMISSION AND DISTRIBUTION
3	ENERJİ YÖNETİMİ	ENERGY MANAGEMENT
4	FARKLI ÇEVRE KOŞULLARINDA EGZERSİZ	EXERCISE IN DIFFERENT ENVIRONMENTAL CONDITIONS
5	İLERİ ÇEVRE BİYOLOJİSİ	ADVANCED ENVIRONMENTAL BIOLOGY
6	SPOR TURİZM VE ÇEVRE	SPORTS TOURISM AND ENVIRONMENT
7	BİYOGÜVENLİK VE ÇEVRE SAĞLIĞI	BIOSAFETY AND ENVIRONMENTAL HEALTH
8	ÇEVRE BİYOTEKNOLOJİSİ	ENVIRONMENTAL BIOTECHNOLOGY

9	ÇEVRE EĞİTİMİ	ENVIRONMENTAL EDUCATION
10	ÇEVRE KİMYASI	ENVIRONMENTAL CHEMISTRY
11	ÇEVRE KORUMA	ENVIRONMENTAL PROTECTION
12	ÇEVRESEL FAKTÖRLER	ENVIRONMENTAL FACTORS
13	ÇEVRESEL RİSK DEĞERLENDİRMESİ	ENVIRONMENTAL RISK ASSESSMENT
14	ÇEVRESEL VE MESLEKSEL ETKENLER VE AKCİĞERLER	ENVIRONMENTAL AND OCCUPATIONAL FACTORS AND LUNGS
15	KENTLEŞME POLİTİKALARI	URBANIZATION POLICIES
16	KENTLEŞME POLİTİKASI	URBANIZATION POLICY
17	TARIMIN EKONOMİ POLİTİĞİ	ECONOMIC POLICY OF AGRICULTURE
18	KENTLEŞME VE KONUT POLİTİKALARI	URBANIZATION AND HOUSING POLICIES
19	BÖLGESEL EKONOMİ POLİTİKALARI	REGIONAL ECONOMY POLICIES
20	SOSYAL POLİTİKA	SOCIAL POLICY
21	KENT EKONOMİSİ VE GELİŞME POLİTİKALARI	URBAN ECONOMY AND DEVELOPMENT POLICIES
22	SÜRDÜRÜLEBİLİRLİK	SUSTAINABILITY
23	MİMARLIK, SÜRDÜRÜLEBİLİRLİK VE KENT	ARCHITECTURE, SUSTAINABILITY AND THE CITY
24	SÜRDÜRÜLEBİLİR TURİZM UYGULAMALARI	SUSTAINABLE TOURISM PRACTICES
25	SÜRDÜRÜLEBİLİR KALKINMA VE EĞİTİM	SUSTAINABLE DEVELOPMENT AND EDUCATION
26	SÜRDÜRÜLEBİLİRLİK VE LOJİSTİK	SUSTAINABILITY AND LOGISTICS
27	SÜRDÜRÜLEBİLİR KENTLEŞME	SUSTAINABLE URBANIZATION
28	SÜRDÜRÜLEBİLİR TURİZM UYGULAMALARI	SUSTAINABLE TOURISM PRACTICES
29	SÜRDÜRÜLEBİLİR TURİZM UYGULAMALARI	SUSTAINABLE TOURISM PRACTICES
30	SÜRDÜRÜLEBİLİRLİK VE ÇEVRE	SUSTAINABILITY AND THE ENVIRONMENT
31	SÜRDÜRÜLEBİLİR KENTLEŞME	SUSTAINABLE URBANIZATION
32	TEKSTİL VE MODA TASARIMINDA SÜRDÜRÜLEBİLİRLİK	SUSTAINABILITY IN TEXTILE AND FASHION DESIGN

Description:

Above is a list of the courses that have had changes approved through Gaziantep University curriculum which aims to embed sustainability into all course and module content offered by the University.

6.2. Total Number of Courses/Subjects Offered

2019	3290
2020	3299
2021	5595

Total number of courses offered in 2021 = 5595 courses (not modules)

6.4. Total Research Funds Dedicated to Sustainability Research (in US Dollars)

Total research fund dedicated to sustainability research in 2019 = 544959 US Dollars

Total research fund dedicated to sustainability research in 2020 = 59331 US Dollars

Total research fund dedicated to sustainability research in 2021 = 80340 US Dollars

The averaged annum last 3 years of research fund dedicated to sustainability research = 228210 US Dollars

6.5. Total Research Funds (in US Dollars)

Total research fund in 2019 = 6024827 US Dollars

Total research fund in 2020 = 4359178 US Dollars

Total research fund in 2021 = 1611802 US Dollars

The averaged annum last 3 years of research fund = 3998602 US Dollars

6.7. Number of scholarly publications on sustainability

Google Akademik "Gaziantep University" green & sustainability

Makaleler Yaklaşık 433 sonuç bulundu (0,13 sn)

Tüm zamanlar
2022 yılından beri
2021 yılından beri
2021 yılından beri
Özel aralık...

2019 — 2021
Ara

Alakaya göre sırala
Tarihe göre sırala

Yönetsel bağlamda yeşil inovasyonun evriminin bibliyometrik analizi
M. SEYHAN - Gaziantep University Journal of Social Sciences, 2021 - dergipark.org.tr
... Sustainability is involved in all areas of life via increasing environmental awareness. ... of sustainability. In this regard, how and at what levels the practices, which are considered as green ...
☆ Kaydet Alıntı yap Alıntılanma sayısı: 5 İlgili makaleler 5 sürümün hepsi

[PDF] dergipark.org.tr
Full View

Avrupa Yeşil Mutabakatı (Green Deal) ve Birleşmiş Milletler Sürdürülebilir Kalkınma Hedefleri Perspektifinde Sürdürülebilir Dijital Pazarlama Stratejileri
E. ÇAYIRAGAŞI, Ş. SAKICI - Gaziantep University Journal of Social ..., 2021 - dergipark.org.tr
... technologies is a critical facilitator for sustainable development goals (Eckert and ... sustainability and sustainable development and the concepts of sustainable marketing and sustainable ...
☆ Kaydet Alıntı yap İlgili makaleler 5 sürümün hepsi

[PDF] dergipark.org.tr
Full View

Google Akademik "Gaziantep University" transportation & sustainability

Makaleler Yaklaşık 834 sonuç bulundu (0,10 sn)

Tüm zamanlar
2022 yılından beri
2021 yılından beri
2021 yılından beri
Özel aralık...

2019 — 2021
Ara

Alakaya göre sırala
Tarihe göre sırala

The Effort To Reduce Negative Externality In Post Covid-19 Period In Turkish Economy: Example Of Transportation Sector
L. GÜLER - Gaziantep University Journal of Social Sciences, 2020 - dergipark.org.tr
... In this study, CO2 emission was dealt with as negative environmental externality and environmental input-output analysis was applied to all sectors in Turkey and measures, policies ...
☆ Kaydet Alıntı yap Alıntılanma sayısı: 2 İlgili makaleler 5 sürümün hepsi

[PDF] dergipark.org.tr

[PDF] REPUBLIC OF TURKEY GAZİANTEP UNIVERSITY GRADUATE SCHOOL OF NATURAL & APPLIED SCIENCES
ASALI ALI - 2021 - researchgate.net
... The assistance and support of all the members and professor of the Gaziantep University, civil engineering department throughout the education of the study, is highly acknowledged. ...
☆ Kaydet Alıntı yap 2 sürümün hepsi

[PDF] researchgate.net

Google Akademik "Gaziantep University" waste & sustainability

Makaleler Yaklaşık 475 sonuç bulundu (0,07 sn)

Tüm zamanlar
2022 yılından beri
2021 yılından beri
2021 yılından beri
Özel aralık...

2019 — 2021
Ara

Alakaya göre sırala
Tarihe göre sırala

Bunu mu demek istediniz? "Gaziantep University" waste and sustainability

Yeşil pazarlama faaliyetleri çerçevesinde çevreci bilinç düzeyinin çevreci davranış üzerine etkisi: Düzce ili örneği
Ç. Kahraman, Ö. Yusuf - Gaziantep University Journal of Social ..., 2019 - dergipark.org.tr
... These are consciousness of sensitivity to environmental ..., consciousness against environmental policies in the world and ... for recycling and avoidance from waste. When the answers of ...
☆ Kaydet Alıntı yap Alıntılanma sayısı: 7 İlgili makaleler 6 sürümün hepsi

[PDF] dergipark.org.tr
Full View

[PDF] REPUBLIC OF TURKEY GAZİANTEP UNIVERSITY GRADUATE SCHOOL OF NATURAL & APPLIED SCIENCES
Ö. ÖZBEK - 2019 - researchgate.net
... I would like to express the all staff of Gaziantep University Mechanical Engineering ... This work is supported by Gaziantep University Scientific Research Center (BAP), through ...

[PDF] researchgate.net

Google Akademik "Gaziantep University" water & sustainability

Makaleler Yaklaşık 979 sonuç bulundu (0,09 sn)

Tüm zamanlar
2022 yılından beri
2021 yılından beri
2021 yılından beri
Özel aralık...

2019 — 2021
Ara

Alakaya göre sırala
Tarihe göre sırala

[PDF] REPUBLIC OF TURKEY GAZİANTEP UNIVERSITY GRADUATE SCHOOL OF NATURAL & APPLIED SCIENCES
ASALI ALI - 2021 - researchgate.net
... The assistance and support of all the members and professor of the Gaziantep University, civil engineering department throughout the education of the study, is highly acknowledged. ...
☆ Kaydet Alıntı yap 2 sürümün hepsi

[PDF] researchgate.net

[PDF] REPUBLIC OF TURKEY GAZİANTEP UNIVERSITY GRADUATE SCHOOL OF NATURAL & APPLIED SCIENCES
Ö. ÖZBEK - 2019 - researchgate.net
... I would like to express the all staff of Gaziantep University Mechanical Engineering ... This work is supported by Gaziantep University Scientific Research Center (BAP), through ...
☆ Kaydet Alıntı yap İlgili makaleler

[PDF] researchgate.net

Google Akademik "Gaziantep University" energy & sustainability

Makaleler Yaklaşık 1.100 sonuç bulundu (0,17 sn)

Tüm zamanlar
2022 yılından beri
2021 yılından beri
2018 yılından beri
Özel aralık...
2019 — 2021
Ara

Alakaya göre sırala
Tarihe göre sırala

Do technological development and clean **energy** effect **environmental** awareness?: An empirical analysis for Turkey [PDF] dergipark.org.tr Full View
F. ÖZSOY, A. ÖZPOLAT - **Gaziantep University** Journal of Social ..., 2020 - dergipark.org.tr
... **energy** and technological development on **environmental** quality in Turkey. ii) although studies on the effects of real GDP per capita on **environmental** ... and nuclear **energy** and patent ...
☆ Kaydet Alıntı yap Alıntılanma sayısı: 1 İlgili makaleler 6 sürümün hepsi

[PDF] Carbon Footprint Analysis of a Residential Building [PDF] researchgate.net
A. Atmaca - UEMK **Gaziantep University**, Gaziantep, Turkey, 2019 - researchgate.net
... **energy** is one of the largest contributors to CO2 emissions. There is an urgent need to evaluate the regional **environmental** ... the construction materials, daily **energy** consumption of the ...
☆ Kaydet Alıntı yap Alıntılanma sayısı: 2 İlgili makaleler

Based on energy use and environmental quality indicators, the study aims to determine the carbon footprint of the building. The study is based on the data collected from the building's energy consumption records and the environmental quality indicators. The results of the study show that the carbon footprint of the building is high and that there is a need to take measures to reduce it. The study also shows that the building's energy consumption is high and that there is a need to take measures to reduce it. The study also shows that the building's environmental quality is low and that there is a need to take measures to improve it. The study concludes that the building's carbon footprint is high and that there is a need to take measures to reduce it. The study also shows that the building's energy consumption is high and that there is a need to take measures to reduce it. The study also shows that the building's environmental quality is low and that there is a need to take measures to improve it.

Examples of **scholarly publications on sustainability** (Gaziantep University)

Description:

Example of events **scholarly publications on sustainability** in the academic year 2019-2021.
A total average per annum over the last 3 years of **3821 publications**

6.8. Number of Events Related to Sustainability



Examples of Events Related to Sustainability (Gaziantep University)





Examples of Events Related to Sustainability (Gaziantep University)



Example of events related to environment and sustainability hosted or organized by Gaziantep University



Protect Your Water workshop at kindergartens organized by Gaziantep University Faculty Members

PROJECT NAME
Consumption and Saving Habits in Youth Project
Cost research due to the disposal of household wastes (bottle, glass, tin, paper, packaging, plastic) in the Gaziantep Central Campus and their inability to bring them into the economy.
A Literature Search Project About A Single Recyclable Material Compiled From Articles About Waste Recycling
One Sapling One Forest Project
Park Universe Project
Awareness Raising Project on Water Consumption
Clean Living Space Project
Sustainable Development Goals Project
Awareness Raising Project on Reducing Food Waste
Clean Environment Project with Gaziantep University
Sapling Planting and Forestation Project
Don't Let The Future Be Without Water Project
Water is the Future, Protect Your Future Project
Nurdagi is Turning Green Project
I Have a Planted Tree Project
You Plant a Sapling Project
Tree Planting Project
Sapling Planting Project
Your Name is Nature Project
Sapling Planting Campaign Project
Individual Sapling Planting Project
Community and Environmental Awareness Project
Stay at Home Grow Flowers Project
My Rose Garden Project
Let's Keep Our Environment Clean Project
Prevention of Water and Food Waste Project
Consumption Awareness Project
No Life Without Water Project
You Plant a Sapling Project
Prevention of Water and Food Waste Project
Clean Campus Project
Grow Sapling, Be a Breath to the Future Project
One Sapling One Breath Project
Our Water is Our Life Project
Environmental Awareness Development Project
Tree Planting Project
Giving Garbage a Chance of Life by Creating Zero Waste and Recycling Awareness Project

Example of events related to environment and sustainability hosted or organized by Gaziantep University in the academic year 2018-2020.

Total number of sustainability/environment related events in:

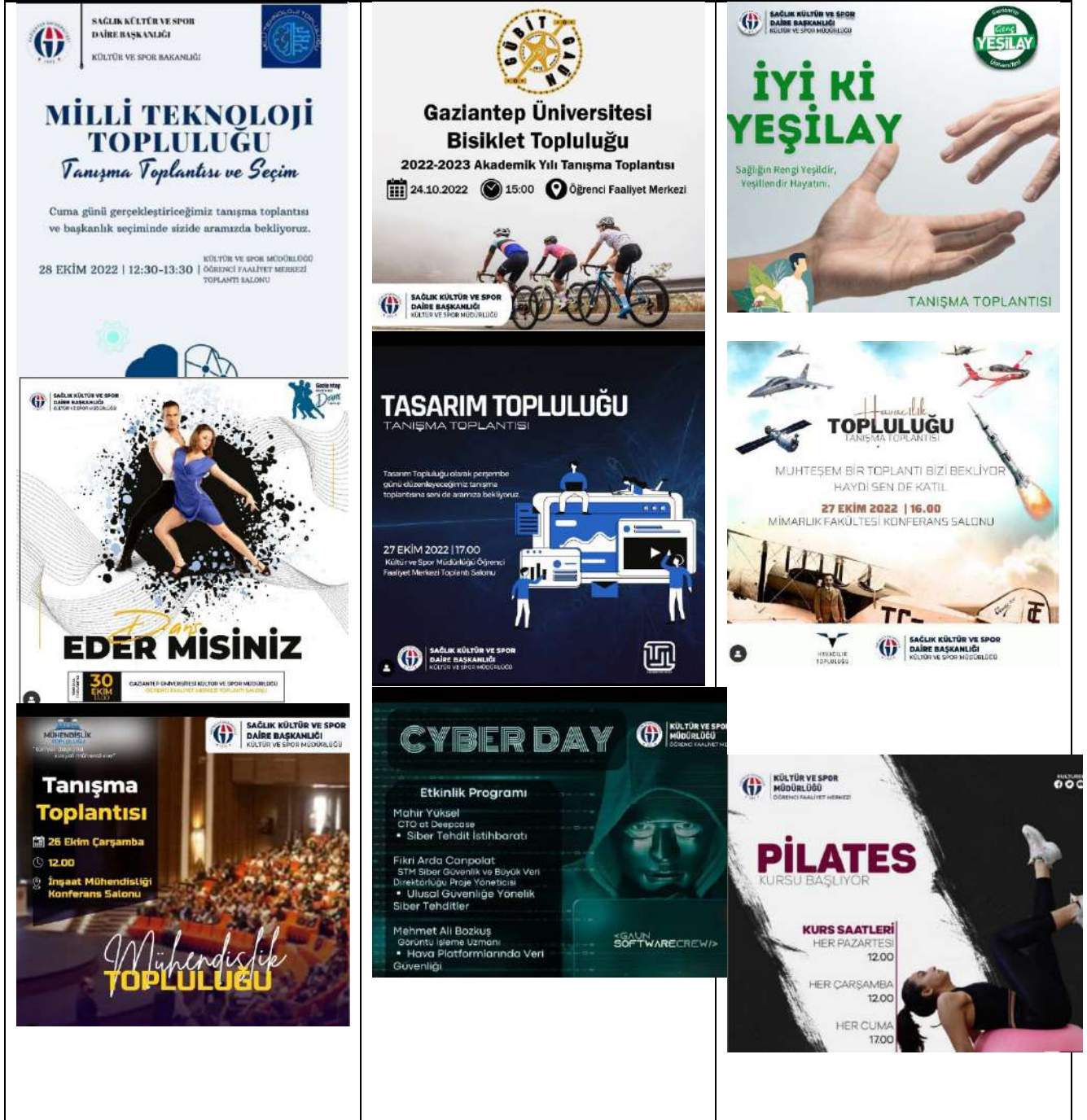
2019: 30

2020: 32

2021: 42

A total average per annum over the last 3 years of **76 events** (e.g. conferences, workshops, awareness raising, practical training, etc.).

6.9. Number of student organizations related to sustainability





Examples of **student organizations** (Gaziantep University)

Description

To provide all kinds of contributions and opportunities for Gaziantep University students and employees to come together and work in the fields of interest, knowledge and skill, and to organize the exhibition and promotion of the products that emerge as a result of these studies.

VISION

To direct each individual under the roof of Gaziantep University to at least one socio-cultural field and to ensure that they are equipped in social areas in addition to their professional development.

AIM

The aim of Gaziantep University 80th Year Student Culture Directorate can be summarized as meeting the socio-cultural needs of the individuals under the roof of the university, preparing suitable environments for them to carry out individual or organized activities in line with these needs, and providing all kinds of opportunities within the possibilities in order to carry out the activities in a healthy way.

6.10. There is a University-run sustainability website, which is available, accessible, and updated regularly.

6.11. Sustainability report is published annually.

<http://kalite.gantep.edu.tr/>

6.13. Number of cultural activities on campus (e.g. Cultural Festival) including virtual activities (if any)

<p>GUSIT FİLM GÜNLERİ Gaziantep Üniversitesi Sinema Topluluğu</p> <p>16 Aralık-Perşembe Güzel Sanatlar Fakültesi Konferans Salonu Saat: 18.00</p> <p>KÜLTÜR VE SPOR MÜDÜRLÜĞÜ ÖĞRENCİ FAALİYET MERKEZİ</p> <p>KONUŞ ONUNLA Pedro Almodóvar</p>	<p>KÜLTÜR VE SPOR MÜDÜRLÜĞÜ ÖĞRENCİ FAALİYET MERKEZİ</p> <p>GAZİANTEP ÜNİVERSİTESİ SATRANÇ TURNUVASI</p> <p>Turnuva katılm 50 kişiyle sınırlıdır. Turnuva öncesi teknik toplantıya katılm zorunludur.</p> <p>TURNUVA TARİHLERİ 29 ARALIK 2021 16.00- 30 ARALIK 2021 16.00-</p> <p>İLETİŞİM NUMARASI Üsâme Bacaksız 0544 620 55 03</p> <p>ÖDÜLLER İlk 3'e kattanabilir bisiklet ve ilk 10'a satranç takımı. Ayrıca kadınlara da ilk bağımsız olarak kendi aralarında ilk 3'e satranç takımı verilecektir.</p>	<p>KÜLTÜR VE SPOR MÜDÜRLÜĞÜ ÖĞRENCİ FAALİYET MERKEZİ</p> <p>Ne Evet Ne Hayır OĞUZ ATAY</p> <p>Oyuncular Yuhus Erme KEKLIK Deniz FOTO</p> <p>Yönetmen AFATIN SÖLÖR SARINER</p> <p>Tarih: 29.12.2021 Saat: 20.00</p> <p>Regi Onur Alp DEMİR DEM ESENKÖYLÜ</p>
<p>TÜRK MÜSİKİSİ DEVLET KONSERVATUVARI</p> <p>TADIMLIK TÜRKÜLER</p> <p>Türk Halk Müziği Konserti 27 KASIM 2021 // 19.00</p>	<p>SİBER ZORBALIK VE TEKNOLOJİ BAĞIMLILIĞI</p> <p>21 Ocak Cuma 21.00 Google Meet</p> <p>DOÇ.DR.İBRAHİM TANRIKULU</p>	
<p>GÜTÖT</p> <p>GAZİANTEP ÜNİVERSİTESİ TİYATRO OYUNCULARI TOPLULUĞU</p> <p>2021/2022 DÖNEMİ SEÇME SONUÇLARI</p> <ol style="list-style-type: none"> 1) Aybüke Nur ÇELİK 2) Betül İNAL 3) Dilan ÇELİK 4) Faruk Can DEMİR 5) Fatıma Ece SELLÜM 6) Kerem KARABULUT 7) Mehmet Hanifi AKDEMİR 8) Mehmet Sait YOLDAŞ 9) Nevin AKKOYUN 10) Ömer Faruk BALCI 11) Sevim BAŞTÜRK 12) Tuğçe ÜSTÜNBOYAR 13) Uğur BADUR 14) Umut Can GÖÇBEN <p>KÜLTÜR VE SPOR MÜDÜRLÜĞÜ ÖĞRENCİ FAALİYET MERKEZİ</p>	<p>KÜLTÜR VE SPOR MÜDÜRLÜĞÜ ÖĞRENCİ FAALİYET MERKEZİ</p> <p>ZERDALİ</p> <p>Gazi şehrimizin düşman işgalinden kurtuluşunun 100. Yılı anısına sahneleneceğimiz oyunumuzun hepimiz davetlisiniz.</p> <p>Oyunumuz Ücretsizdir</p> <p>28 ARALIK SAAT 19.00 AKS</p>	

Examples of cultural activities on campus (Gaziantep University)



Examples of cultural activities on campus (Gaziantep University)

Description:

Example of Total number cultural activities on campus organized by Gaziantep University: more than 3 events

[6.14] Number of university program(s) to improve teaching and learning

GAUZEM UZAKTAN EĞİTİM UYGULAMA VE ARAŞTIRMA MERKEZİ

Anasayfa Kurumsal Programlarımız GAÜNYÖS Mevzuat Sınav Kapasitesi Eğitim Videoları İletişim E-KAYIT

GAZİANTEP ÜNİVERSİTESİ 1973

EĞİTİMLER İÇİN ÖDEV TANIMLAMA İŞLEMLERİ

EĞİTİM VİDEOLARI SAYFASI



KONTROL PANELİ DERSLERE GENEL BAKIŞ

ÖĞRENCİLER İÇİN ONLINE SINAV UYGULAMA ADIMLARI


SANAL SINIF EĞİTİM CANLI DERS EKRANI ANLATIMI

SORU BANKASI OLUŞTURMA VE SINAV TANIMLAMA (EĞİTİMLER İÇİN)

Gaziantep Üniversitesinde Geliştirilen **Timeline Travel** Uygulaması Artık İOS ve ANDROID'de




Google Play AppStore



Paneli Bilgi, Dönme Güç, Gaziantep, Bekir BAYARCI, Ayfer Gökçe, Yakup Bulut, Arif ÖZAYDIN Gaziantep, BENGÜ KAYAPALI, Yakup Dirmaz, Feride İnkilapçuoğlu, Feyza Raif, Fatma Başçınar, KEREM KARABULUT, Prof. Dr. Servis Demir, Kemal YILDIRIM, EMINE KOBAN

ONLINE YAZILIM KURSLARI

BASIC WEB DESIGN
C++ COURSE
BASIC SPSS COURSE
MATLAB COURSE
DIALUX EVO COURSE
MATHEMATICA COURSE



TÜM GAZİANTEP ÜNİVERSİTESİ ÖĞRENCİLERİ ÜCRETSİZ OLARAK KATILABİLİR
KATILIM KONTENJAN İLE SINIRLI
EĞİTİMLER GAUZEM SİSTEMİ ÜZERİNDEN ONLINE OLARAK VERİLECEKTİR
www.uogscholarship.gantep.edu.tr

Online C++ Kursu

Başlangıç Tarihi: 20.07.2020
Saat: 09.00

Eğitimler GAUZEM sistemi üzerinden yapılacaktır.
Tüm Gaziantep Üniversitesi öğrencileri ücretsiz olarak katılabilir.
Kayıt GÜSEM üzerinden gerçekleştirilir.



This project is funded by the European Union.
Bu proje Avrupa Birliği tarafından finanse edilmektedir.
هذا المشروع ممول من قبل الاتحاد الأوروبي



BUSINESSES and ENTREPRENEURSHIP for SYRIANS & TURKS
Giriřimcilik Webinarı / Entrepreneurship Webinar
30-31 Mart 2021 / 30-31 March 2021

"Geçici Koruma Sağlanan Suriyeliler ve Türk Vatandaşları için İşletmelerin ve Giriřimciliğin Geliřtirilmesi Projesi"
Giriřimcilik Webinarına katılımınız bizleri onurlandıracaktır.

We will be honoured by your participation to the *Entrepreneurship Webinar of "Development of Businesses and Entrepreneurship for Syrians under Temporary Protection and Turkish Citizens Project"*.

Recep Ali ERDOĞAN
Proje Direktörü/Project Director

Webinar Link

1. Oturum / Session 1 / 30 Mart 2021 / 16:00 <https://zoom.us/j/92616108345>
2. Oturum / Session 2 / 31 Mart 2021 / 11:00 <https://zoom.us/j/93726584257>
3. Oturum / Session 3 / 31 Mart 2021 / 16:00 <https://zoom.us/j/99484336886>



Online Teaching Methods (<http://uzem.gantep.edu.tr/>)
(Gaziantep University, Turkey)

Description:

Gaziantep University Distance Education Application and Research Centre

Our centre attempts to keep two different aspects of distance education in a creative balance. On the one hand, the expectation from online education is to provide an equivalent quality education experience for both students and instructors as rigorous as traditional or face-to-face education, on the other hand, it supports the use of different pedagogical methods and interaction tools for face-to-face and online courses. Our centre sees it as a necessity to benefit from distance education platforms in order to provide a rich learning environment for the learner in coeducation. In this context, it aims to transform the learning experience into a permanent structure independent of time and place, sensitive to individual learning speed and self-control. Without looking at distance education as a substitute for formal education, both are perceived as complementary to each other and as a result, act parts of a whole that improves learning experiences. From this point of view, Gaziantep University's Distance Education Policy are:

"To use modern education technologies by blending them in distance/blended education programs and thus developing learning at the highest level in a qualified, permanent and technology compatible manner." While preparing the Distance Education Policy, focus group meetings were held. Our centre sees distance education means as opportunities, and tries to make use of modern technology opportunities available to our students.

It is aimed to determine a student-centered, competency-based, user-friendly sustainable policy for students and instructors. This policy has been prepared to ensure that distance education services not only maintain the same standard as formal education services, but also integrate them. It was announced to our stakeholders on the GAUZEM Distance Education Application and Research Center web page and our institution's web page. Monitoring reports for monitoring and improving our policy in an integrated manner with the internal quality assurance system will be followed up in 6-month periods with the coordination of the Quality Assurance Unit, and will be finalized at the end of the year, and the management of our institution will be informed.

Instructors and students are informed about alternative teaching approaches and methods that can be used in distance/co-education practices, and the use of these methods and approaches is encouraged. In addition, there is a live lesson group room application where group work can be done to increase student participation and interaction (Adobe Connect). For the same purpose, there are also opportunities that allow the implementation of extracurricular/social interaction such as forums and blogs. The Moodle LMS system used by GAUZEM offers extensive opportunities for assessment and evaluation. System exam in terms of variety of exam questions (Multiple choice, True/false, Matching, Short answer, Numeric, Written) and limitation settings (Timing, Note-application permission, Layout, Question behaviour, Feedback and Limitations-password, network address). It offers a practical exam tool for students and instructors in their applications. In terms of exam security, the opportunity to use a secure exam navigator is provided. In addition, Live Proctoring exam applications were preferred in the units that requested, and in this way, the student's identity verification and live proctoring of the exam were made by the proctors.

6.14. Number of sustainability community services project organised and/or involving students

PROJECT NAME	Participants	Duration	Project Area
Consumption and Saving Habits in Youth Project	8	1 Term	EC
Cost research due to the disposal of household wastes (bottle, glass, tin, paper, packaging, plastic) in the Gaziantep Central Campus and their inability to bring them into the economy.	8	1 Term	EC, WS
A Literature Search Project About A Single Recyclable Material Compiled From Articles About Waste Recycling	8	1 Term	ED, WS, SI
One Sapling One Forest Project	8	1 Term	EC
Park Universe Project	46	1 Term	EC
Awareness Raising Project on Water Consumption	28	1 Term	WR
Clean Living Space Project	29	1 Term	EC,
Sustainable Development Goals Project	34	1 Term	ED, SI
Awareness Raising Project on Reducing Food Waste	36	1 Term	WS
Clean Environment Project with Gaziantep University	50	1 Term	EC, WR
Sapling Planting and Forestation Project	18	1 Term	EC
Don't Let The Future Be Without Water Project	11	1 Term	WR
Water is the Future, Protect Your Future Project	25	1 Term	WR
Nurdagi is Turning Green Project	10	1 Term	EC
I Have a Planted Tree Project	10	1 Term	EC
You Plant a Sapling Project	5	1 Term	EC

Tree Planting Project	45	1 Term	EC
Sapling Planting Project	26	1 Term	EC
Your Name is Nature Project	26	1 Term	ED, EC
Sapling Planting Campaign Project	80	1 Term	EC
Individual Sapling Planting Project	40	1 Term	EC
Community and Environmental Awareness Project	36	1 Term	ED, SI, EC
Stay at Home Grow Flowers Project	30	1 Term	EC
My Rose Garden Project	28	1 Term	EC
Let's Keep Our Environment Clean Project	35	1 Term	EC
Prevention of Water and Food Waste Project	35	1 Term	WR, WS
Consumption Awareness Project	40	1 Term	ED
No Life Without Water Project	51	1 Term	WR
You Plant a Sapling Project	25	1 Term	EC
Prevention of Water and Food Waste Project	25	1 Term	WR, WS
Clean Campus Project	55	1 Term	EC
Grow Sapling Be a Breath to the Future Project		1 Term	ED, EC
One Sapling One Breath Project	47	1 Term	EC
Our Water is Our Life Project		1 Term	WR
Environmental Awareness Development Project	40	1 Term	ED
Tree Planting Project		1 Term	EC
Giving Garbage a Chance of Life by Creating Zero Waste and Recycling Awareness Project	45	1 Term	WS

6.16. Number of sustainability-related startups

No.	Information
1	<p>Startup name: Rehabilitation of Clear Lake project*</p> <p>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI</p> <p>URL: https://resources.ca.gov/Initiatives/Blue-Ribbon-Committee-for-the-Rehabilitation-of-Clear-Lake*</p>
2	<p>Startup name: EFELYUM ELEKTRONİK YAZILIM SANAYİ VE TİCARET LTD.ŞTİ.</p> <p>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): ...</p> <p>URL: info@efelyum.com</p> <p>Description: Solar Panels</p> <p>Photos: ...</p>
3	<p>Startup name: ACZ ENERJİ İNOVASYONVE ARGE SANAYİ VE TİCARET LİMİTED ŞİRKETİ</p> <p>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): ...</p> <p>URL: aczinovasyon@gmail.com</p> <p>Description: LTO battery, electricity saving</p> <p>Photos:</p>
4	<p>Startup name: Seyf Ar-Ge Otomasyon Mühendislik Danışmanlık San. Tic. Ltd. Şti.</p> <p>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): ...</p> <p>URL: bozbas@gantep.edu.tr</p> <p>Description: Air Purifier</p> <p>Photos:</p>
5	<p>Startup name: KK TEKNOLOJİ ELEKTRONİK ELEKTROMEKANİK VE SOLAR TEKNOLOJİ AR-GE SAN TİC. LTD. ŞTİ</p> <p>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): ...</p> <p>URL: kkteknoloji@gmail.com</p> <p>Description: Air Purifier</p> <p>Photos:</p>
6	<p>Startup name: NOVEL ENERJİ DANŞ.MÜH.SAN.VE TİC.A.Ş.</p> <p>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): ...</p> <p>URL: aguven@gantep.edu.tr</p> <p>Description: Waste water</p> <p>Photos:</p>
7	<p>Startup name: BKRC ENDÜSTRİYEL ENERJİ ISI SAN.TAAHHÜT PAZ.TİC.VE LTD.ŞTİ.</p> <p>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): ...</p> <p>URL: info@endustriyelenerji.com</p> <p>Description: Heat recovery</p> <p>Photos:</p>
8	<p>Startup name: GAZİANTEP BİLİŞİM VE AKILLI KENT TEKNOLOJİLERİ ANONİM ŞİRKETİ</p> <p>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): ...</p> <p>URL: bilgi@gaziantepbilisimcom.tr</p>

	<p>Description: Debris Management and Information System</p> <p>Photos:</p>
--	---