



GAZIANTEP UNIVERSITY
SUSTAINABILITY REPORT, 2020



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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.

In our school staff; there are 4 Doctor Lecturers and 22 Instructors employed.

Administrative Staff

Our school has 11 staff members.

1 Vocational School Secretary,

1 Chef

2 Computer Operator

2 Officers

2 Servants

2 Guard Security Officers and 1 Guard are on duty.

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



Nurdagi Vocational School



Oğuzeli Vocational School



Araban Vocational School



Islahiye Vocational School



Naci Topçuoğlu Vocational School





Nizip Education Faculty

Description:

Main Campus area: 1330071,29 m²

Total area including other campuses: 4868585 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: 94%

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

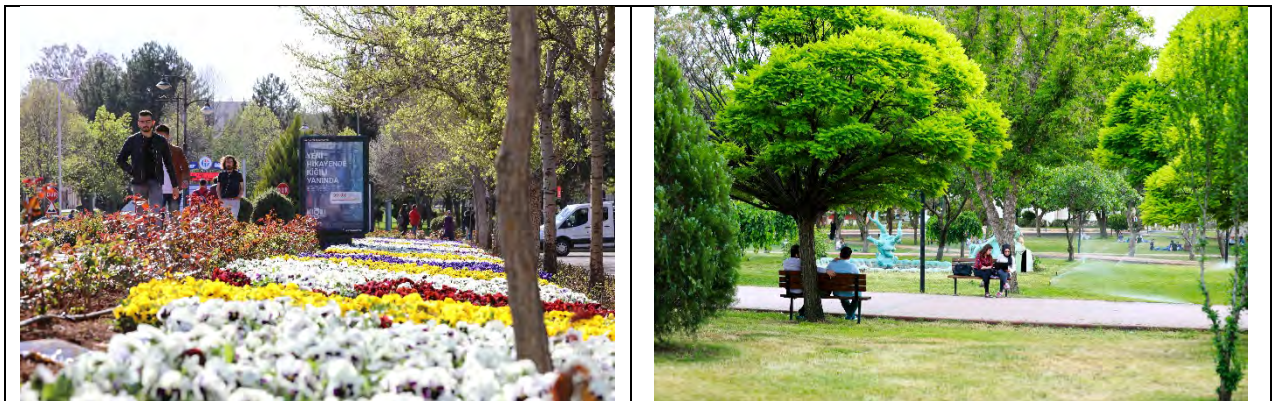
1.9. Total Area on Campus Covered in Forest Vegetation (meter²)

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: 15%

1.12. The current number of regular students in Gaziantep University is 46.125

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

1.14. The total number of academic and administrative staff is 5157.

1.15. The average number of person in campus during pandemic was 2000, which consisted of some faculty members and administrative staff. All staff worked in rotation and the work hours were decreased to 10 am – 4 pm (which was 8 am – 5.30 pm before the pandemic).

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

| | 2018 | 2019 | 2020 | Average |
|------------------------------|------|-------------|-------------|-------------|
| Budget Total | \$ | \$ 53430245 | \$ 66734320 | \$ 60082282 |
| Sustainability Budget | \$ | \$ 272480 | \$ 990900 | \$ 631690 |
| | | | Percentage | 1,05 % |

The average percentage university budget for our university is 1,05%.

1.20. Percentage of operation and maintenance activities during Covid-19 pandemic

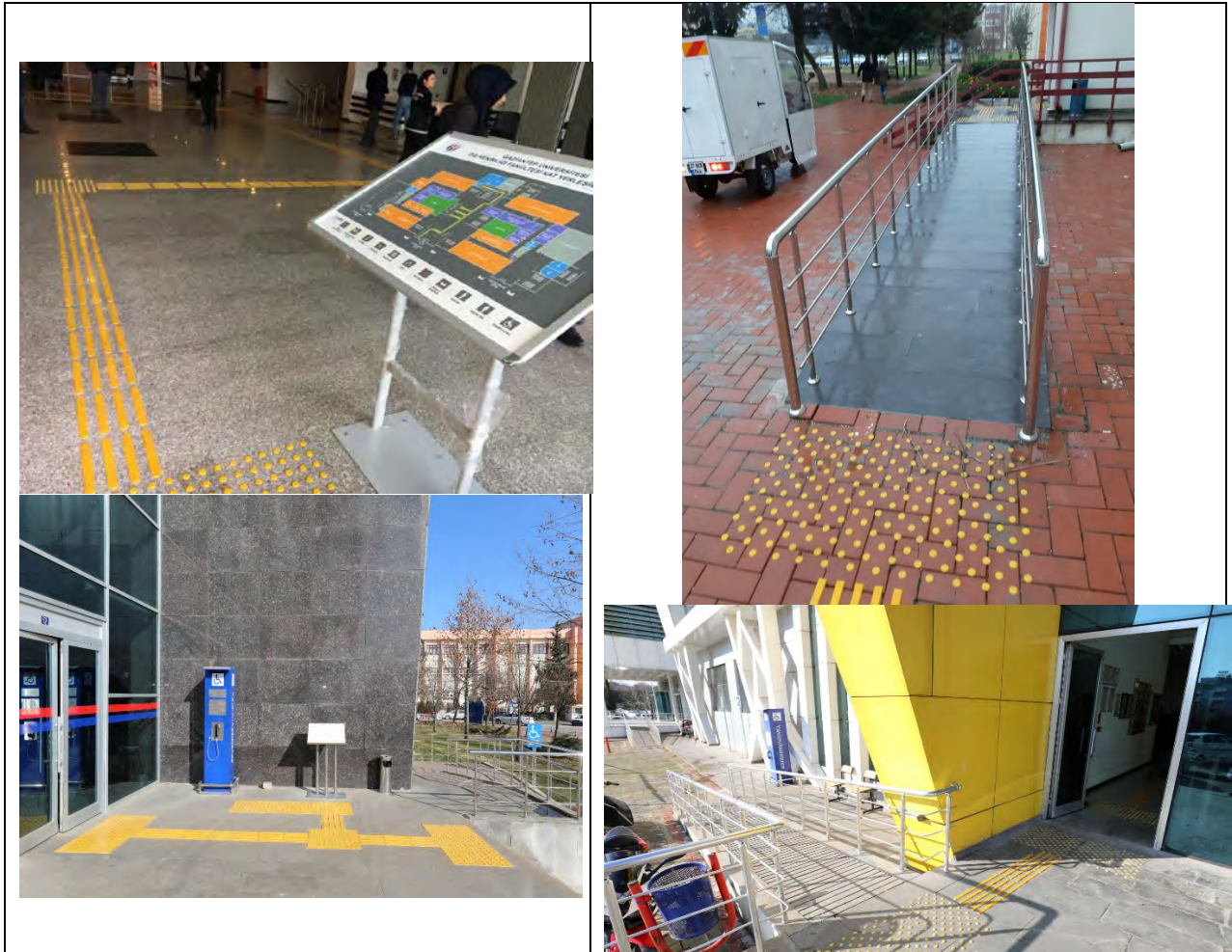


Example of operation and maintenance activities during Covid-19 pandemic in Gaziantep University (Engineering Faculty, Sport centre, Congress Centre, Faculty of Dentistry Water reservoir and Pipes)

Description:

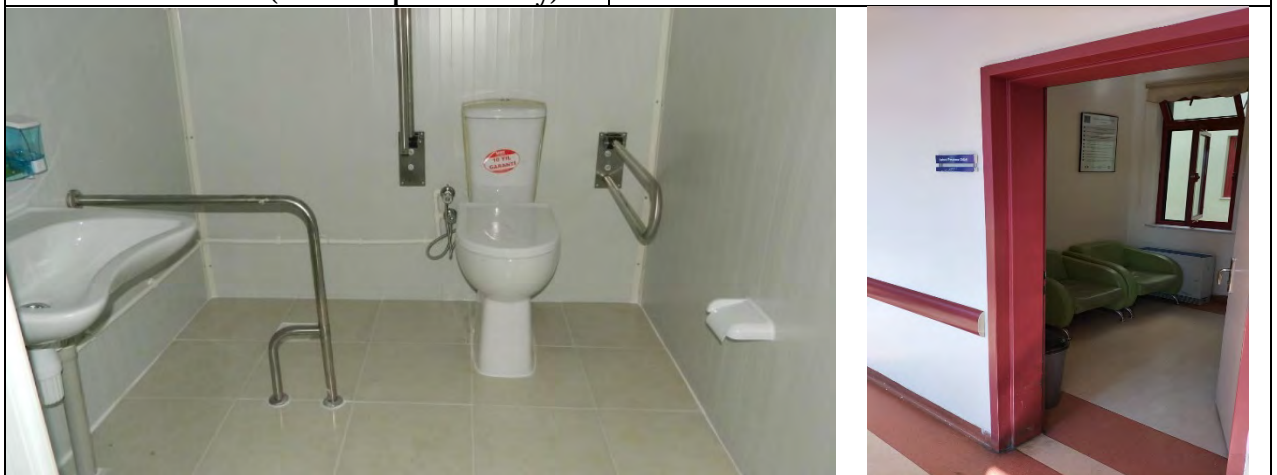
| | | |
|---|--|-----------------------|
| 1 | Total campus buildings area | 513031 m ² |
| 2 | Total operated building | 384775 m ² |
| | Percentage building that operated and maintained | 75,3% |

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



1. Disabled pathway and braille in faculties (Gaziantep University)

2. Disabled Ramp (Gaziantep University)



Disabled Toilet /Lactation Room (Gaziantep University)

Description:

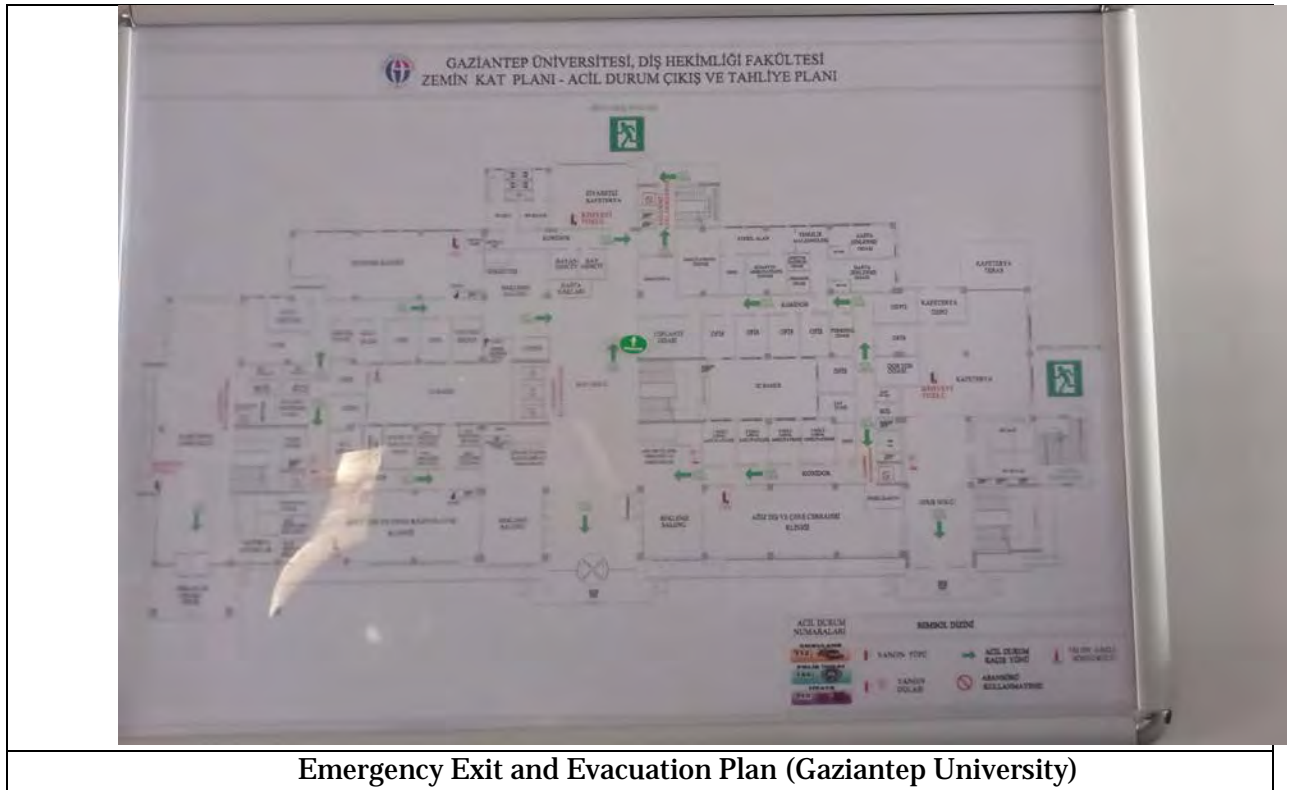
1. Disabled parking for disabled people to park their car which located at the nearest space building
2. Accessible toilet for disabled people.
3. Lactation room is private room for staff who are breastfeeding can pump breast milk in private

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 Hydrant 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.

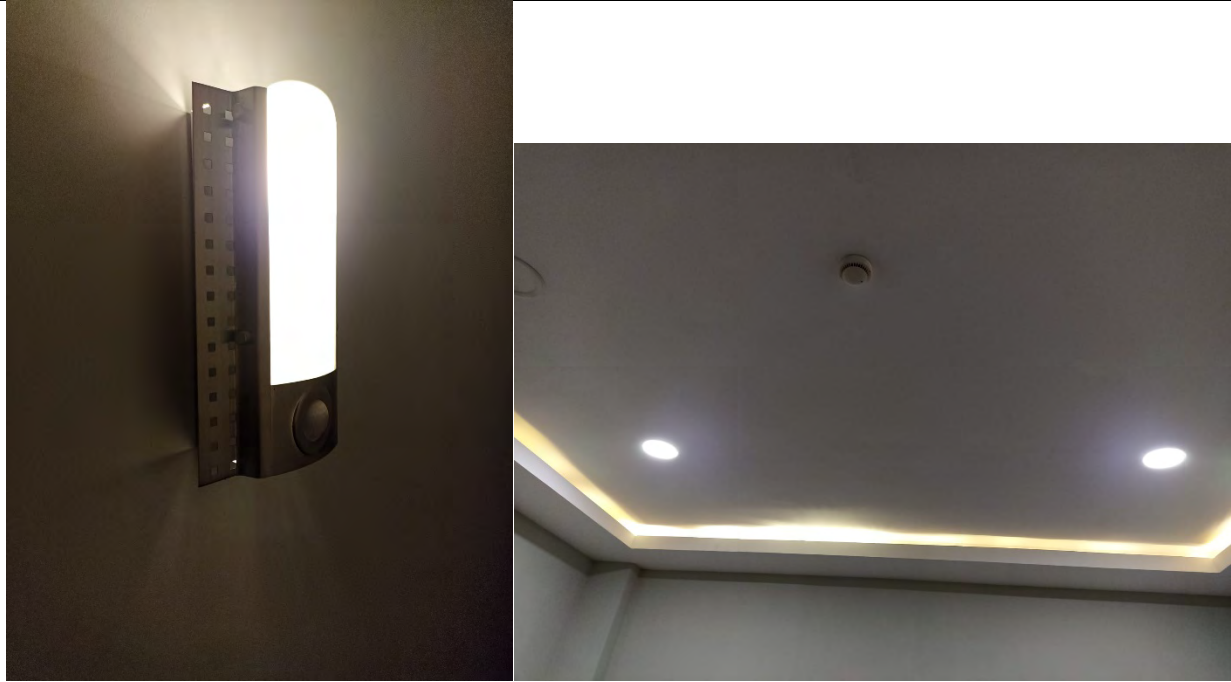
Gaziantep University Oncology Hospital, the foundation of which was laid in 1999 with the leadership of the Turkish Cancer Foundation Gaziantep Branch, is a regional hospital and was built on an area of 24 thousand square meters with a closed area of 10 thousand square meters and 5 floors. Our hospital 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

P Absorpsiyonlu soğutma sisteminin devreye alınarak üniversite enerji giderlerinin azaltılması



Doç. Dr. Adem ATMACA



Proje Düzenle

Proje Özeti

- Proje Kasaları 2
- Satınalma Talepleri 4
- Yolluk Talepleri
- Diğer Ek Talepleri
- Malzeme Listesi
- Yapılan İşlemler
- Proje Raporları
- Proje Personelleri
- Proje Mesajları
- Proje Yayınları

Proje Özeti

Proje No

MF.ALT.18.22

Proje Türü

Altyapı Projesi

Fakültesi / Bölümü

MÜHENDİSLİK FAKÜLTESİ / Enerji Sistemleri Mühendisliği

Başlama Tarihi

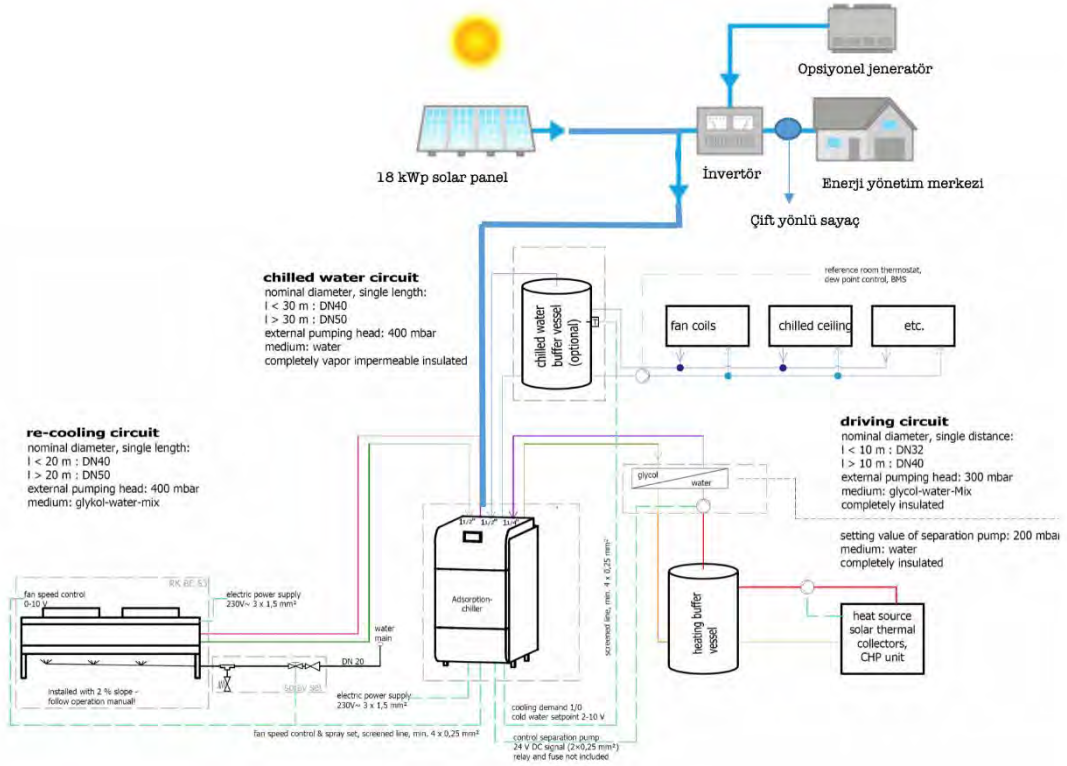
24-10-2018

Bitiş Tarihi

24-10-2019 (Tamamlandığı Tarih: 24-01-2020)

Proje Durumu

D7 - Proje tamamlandı

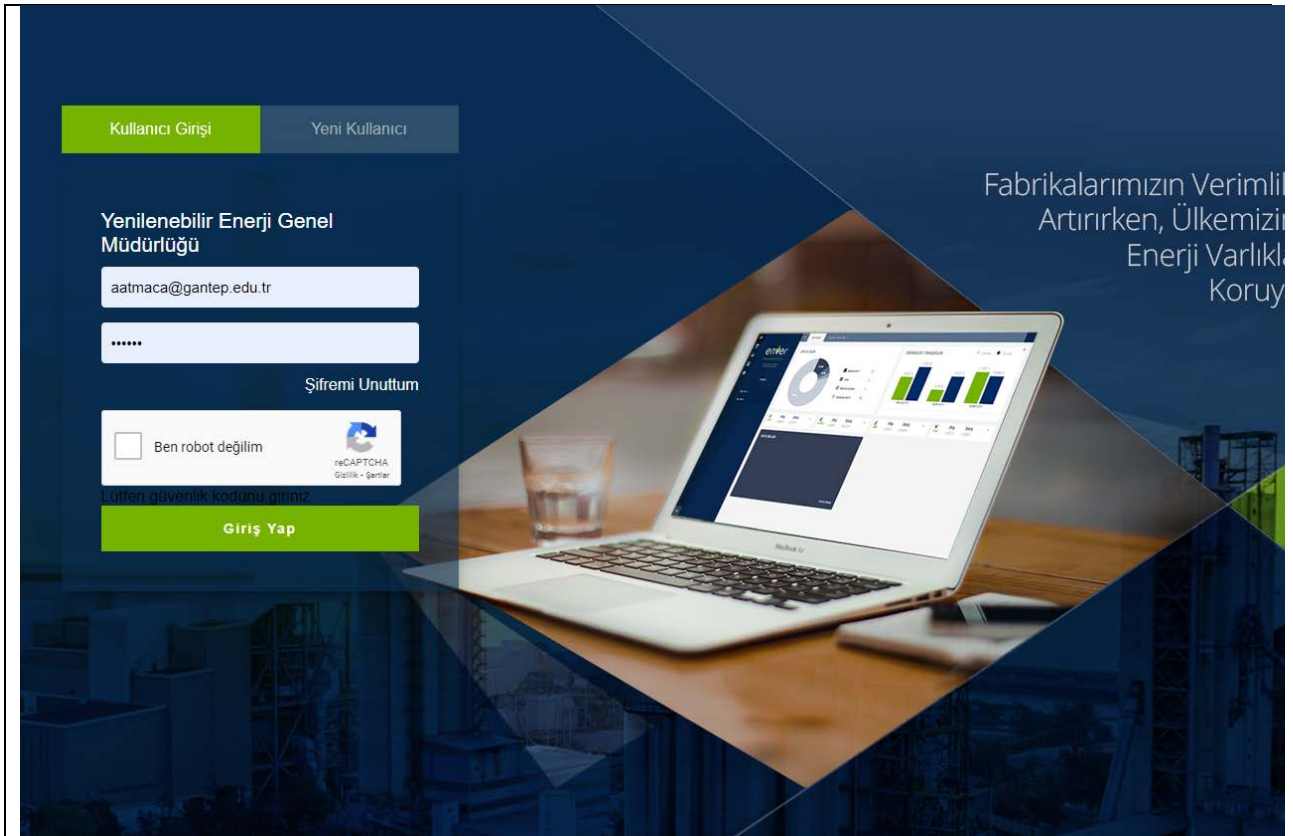




Description:

The energy consumption of adsorption systems in cooling with the help of solar energy and the potential to cause CO₂ emissions are quite low. Water is generally used as refrigerant in such systems, and silica gel or zeolites are used as solid absorbers. Within the scope of our project, the adsorption cooling systems proposed for cooling with the help of solar energy were examined. As a result of the project, it was determined that the thermal energy required for the operation of adsorption systems is between 60-90 °C. It has been calculated that the temperatures required for the operation of the system can be provided by vacuum tube solar collectors. However, in adsorption refrigeration systems where water is used as refrigerant, due to the danger of freezing, the refrigeration effect must be above 0 °C. It has been observed that the cooling capacity of adsorbed coolers is between 7.5-500 kW in current applications. This value is considered to be sufficient for a standard household cooling. Adsorption water chillers have higher initial costs than absorption water chillers. The most important reason for this was found to be the limited number of manufacturers. The purchase price of a standard device out of the country with a cooling capacity of 18 kW is approximately 300.000 TL. The internal manufacturing price of the system is expected to be around 100,000 TL in Turkey. It is of great importance that the prototype production of the product should be carried out rather than procured from abroad.

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



Satın Alınan Elektrik Enerjisi

| Ekle | Sil | Satın Alınan Elektrik | Miktar | Birim | Alt Isıl Değeri | Alt Isıl Birimi | TEP | KCal | G |
|------|-----|-----------------------|---------------|-------|-----------------|-----------------|------------|-------------------|---|
| | | Satın Alınan Elekti | 27.980.110,00 | kWh | 860,00 | kCal/kWh | 2406,28946 | 24.062.894.600,00 | 1 |

Katı / Sıvı / Gaz Yakıt Türleri

| Ekle | Sil | Yakıt Adı | Tüketim Miktarı | Ölçü Birimi | Alt Isıl Değeri | Alt Isıl Birimi | TEP | KCal | G |
|------|-----|-----------------|-----------------|-------------|-----------------|----------------------|------------|-------------------|---|
| | | Doğal Gaz (sm3) | 4.210.195,00 | sm3 | 0,00 | kCal/sm ³ | 3473,41088 | 34.734.108.750,00 | 1 |
| | | Benzin | 5.137,00 | lt | 0,00 | kCal/l | 3,92672 | 39.267.228,00 | 1 |
| | | Motorin | 93.835,00 | lt | 0,00 | kg / l | 79,44071 | 794.407.110,00 | 3 |

Description:

The total electricity usage of Gaziantep University in 2020 is 23.881.256 kWh. On the main campus area of Gaziantep University, electricity is used for lighting, cooling, heating, and laboratory appliances.

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

| Type | Consumption | Unit | Conversion factor | Conversion factor unit | Total CO2 metric tons |
|--|------------------------|-------------------------------|-------------------|------------------------|-----------------------|
| Electricity ¹ | 27,980,110 | kWh ³ | 0.707 | kgCO2/MWh | 19,782.9 |
| Transportation Per Year (Bus) ² | 93,835 | Liter (diezel) ³ | 2.69 | kgCO2/liter | 252.4 |
| Transportation Per Year (Service Car) ² | 5,137 | Liter (gasoline) ³ | 2.35 | kgCO2/liter | 12 |
| Transportation Per Year (Private Car) ² | Hesaplama ⁴ | Liter (gasoline) ³ | 2.35 | kgCO2/liter | 27.1 |
| Natural gas ¹ | 4,210,195 | m3 | 1.938 | kgCO2/m3 | 8,159.3 |
| | | | | TOTAL | 28,233.7 |

Description:

Additional evidence link:

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



 GASKİ

 BOĞAZIÇI
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)

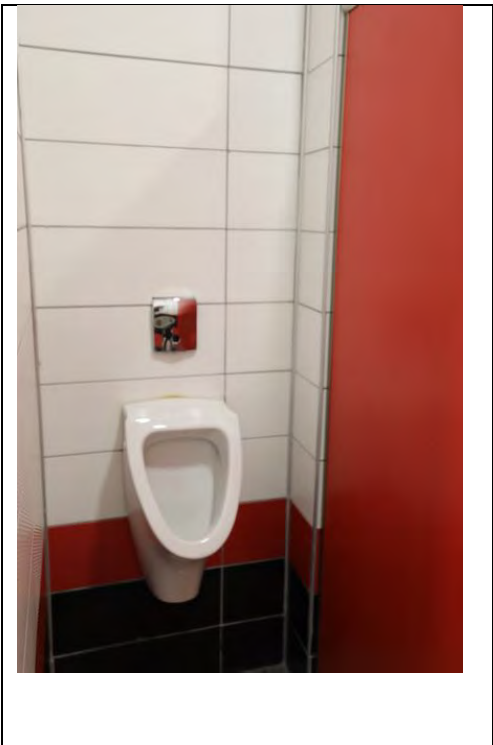
4.2. Water Recycling Program Implementation

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 Nozullar'ı 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 sislemeyi en aza indirirken daha iyi bir ünitiformite sağlar

EK ÖZELLİKLER

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

ALIŞMA 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

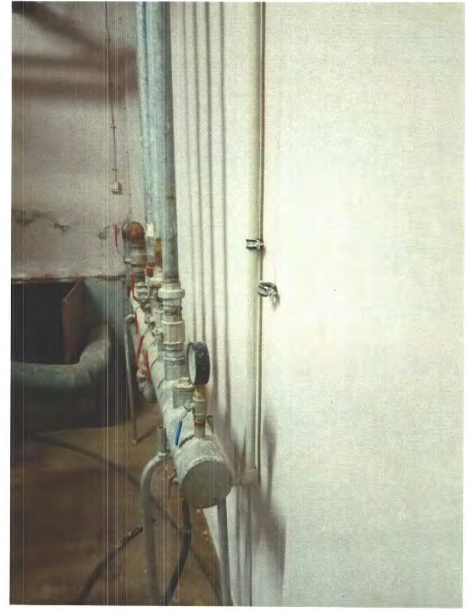
Description:

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.

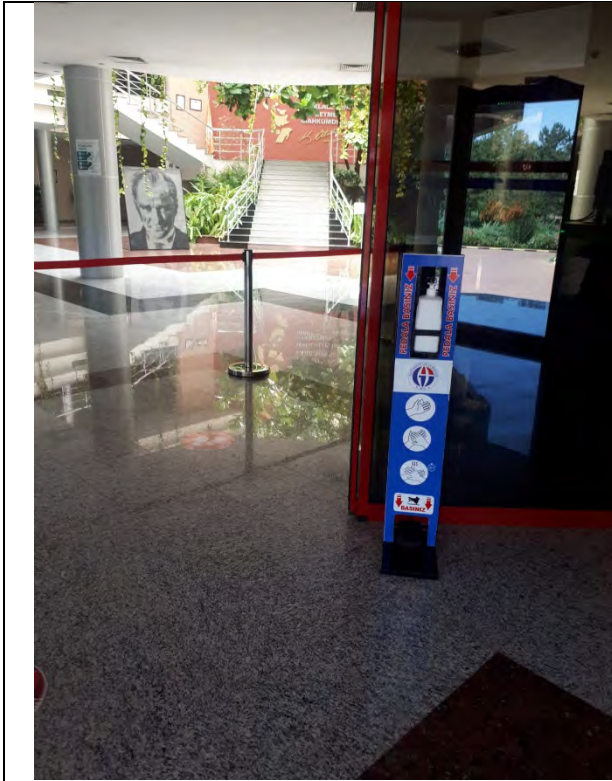


Arıtılmış su cihazları

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.

4.5. Percentage of additional handwashing and sanitation facilities during Covid-19 pandemic



Disinfectants and hand sanitizers in each department and building



Disinfectant, hand sanitizers, and medical waste bin in each department and building





Disinfectants and hygiene guideline in each classroom

Disinfectants and hygiene guideline in each classroom

Examples of handwashing and sanitation facilities during Covid-19 pandemic (Gaziantep University, Turkey)

Description:

Approximately 750 disinfectants and hand sanitizers have been provided on the campus and several faculty buildings. Hand sanitizer containers are also place in every corner of the 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 | 4707 |
| 3 | Motorcycles entering the university | 241 |
| | Total | 5023 |

5.4 = 5023 / 2000 (population) = 0.25

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.

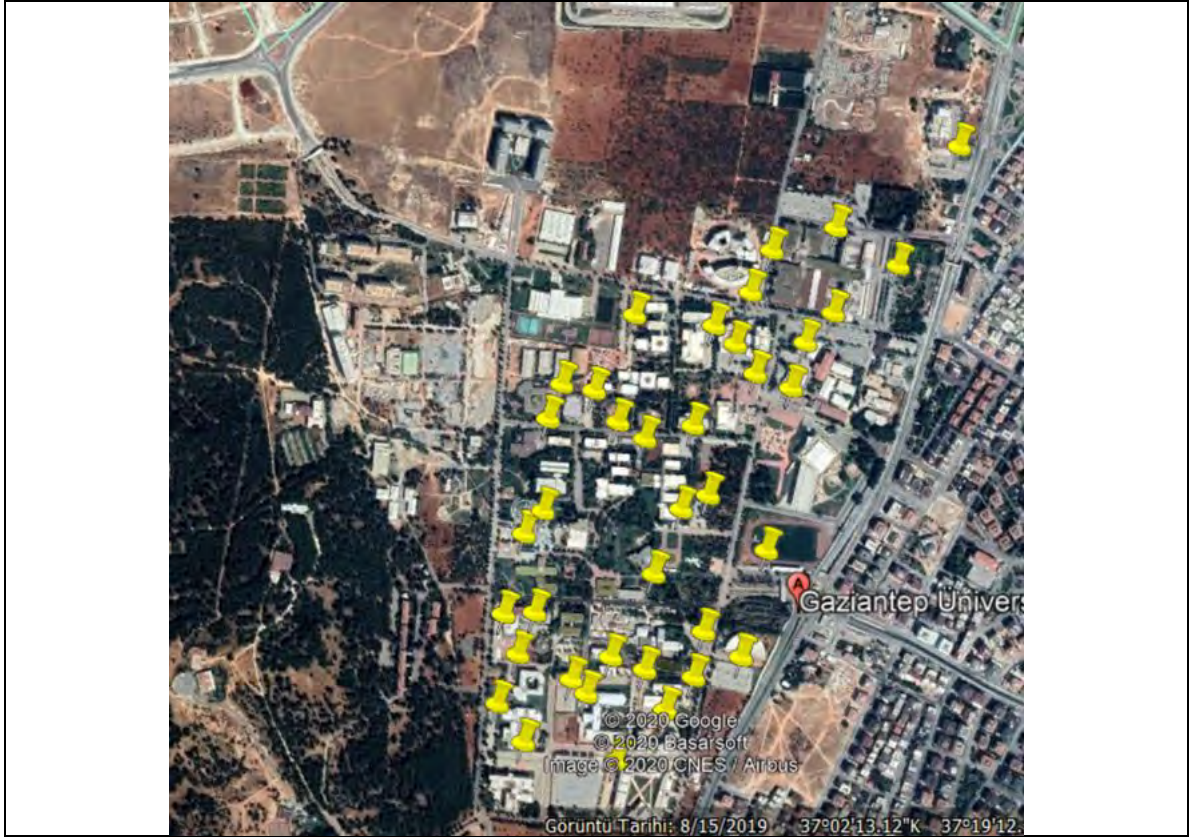
[5.9] Zero Emission Vehicles (ZEV) Policy on Campus



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



Description:

Total main campus area: 4.868.585 m²

Total parking area = 55000 m²

Ratio = 1.12

5.17. Approximate daily travel distance of a vehicle inside campus only is 5 km.

[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 AKCIĞERLER | 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

| | |
|------|------|
| 2018 | 3280 |
| 2019 | 3290 |
| 2020 | 3299 |
| | |

Total number of courses offered in 2020 = 3299 courses (not modules)

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

Description:

Total research fund dedicated to sustainability research in 2018 = 540000 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

The averaged annum last 3 years of research fund dedicated to sustainability research = 381.430 US Dollars

6.5. Total Research Funds (in US Dollars)

Total research fund in 2018 = 2789591 US Dollars

Total research fund in 2019 = 6024827 US Dollars

Total research fund in 2020 = 4359178 US Dollars

The averaged annum last 3 years of research fund = 4.391.198 US Dollars

6.7. Number of scholarly publications on sustainability

Google Akademik "Gaziantep University" green & sustainability

Makaleler Yaklaşık 252 sonuç bulundu (0,06 sn)

Tüm zamanlar
2021 yılından beri
2020 yılından beri
2017 yılından beri
Özel aralık...
2018 — 2020
Ara

Alakaya göre sırala
Tarihe göre sırala

Herhangi bir dil
Türkçe sayfalarda ara

Tüm türler
 patentleri içer
 alıntılar

[PDF] A Study on the Water Conservation Measures in Green Buildings
AB GÜLTEKİN, G KAPLAN... - UEMK 2018 BİLDİRİ 2018 - researchgate.net
... This study explores the assessment measures included to green building certification systems in relation with water conservation. In this context, the water conservation measures available in BREEAM, LEED, DGNB and CEDBIK Certification systems are studied and compared, ...
☆ 99 İlgili makaleler 5 sürümün hepsi

[PDF] THE EFFECT OF GREEN ROOF ON URBAN HYDROLOGIC CYCLE
B TOKATLI, SÇ BAĞÇACI... - UEMK 2018 BİLDİRİ 2018 - researchgate.net
... The mathematical model was developed to simulate the stormwater response of hypothetical extensive green roof with 40 mm growing media ... In this study, it was managed to numerically express the effect of green roof performance on stormwater retention when applied in ...
☆ 99 İlgili makaleler 4 sürümün hepsi

Sürdürülebilir Kalkınma Kapsamında Türkiye'de Denizler ve Deniz Ürünleri Profili
S YILDIRIM, M KAPLAN - Gaziantep University Journal of Social 2020 - dergipark.org.tr
... 2030 Sustainable Development Goals are an important and good guide for sustainable development. These goals put forward by United ... marine resources and using them in a sustainable way is an important goal accepted within the 2030 Sustainable Development Goals. (...)
☆ 99 İlgili makaleler 6 sürümün hepsi

[HTML] Responsible & sustainable manufacturing
SM Gupta, A Güngör, K Govindan, E Özçeylan... - 2020 - Taylor & Francis
Full View

Google Akademik "Gaziantep University" transportation & sustainability

Makaleler Yaklaşık 315 sonuç bulundu (0,07 sn)

Tüm zamanlar
2021 yılından beri
2020 yılından beri
2017 yılından beri
Özel aralık...
2018 — 2020
Ara

Alakaya göre sırala
Tarihe göre sırala

Herhangi bir dil
Türkçe sayfalarda ara

Tüm türler
 patentleri içer
 alıntılar

The Effort To Reduce Negative Externality In Post Covid-19 Period In Turkish Economy: Example Of Transportation Sector
İ GÜLER - Gaziantep University Journal of Social Sciences, 2020 - dergipark.org.tr
... It is predicted that the obtained results will increase even more in the post-Covid-19 period and it is recommended to take measures and determine policies for a transportation system in which emission production is limited and renewable and sustainable environmentally ...
☆ 99 Alıntılanma sayısı: 1 İlgili makaleler 4 sürümün hepsi

Sustainability of Climate Policy at Local Level: The Case of Gaziantep City
Q Balaban, B Gedikli - Emerging Approaches and Tools for a ... 2018 - books.google.com
... With their authorities over land-use planning, water and waste management, energy use, and transportation, cities can play significant roles in ... Gaziantep University provided technical support to the plan, especially to the preparation of the GHG inventory. The Climate Change ...
☆ 99 Alıntılanma sayısı: 1 İlgili makaleler 2 sürümün hepsi

Kentsel lojistik ve tramvay yolcu memnuniyetinin demografik özelliklere göre analizi Gaziantep'te bir alan çalışması
İ Akben, İ Avşar - Gaziantep University Journal of Social Sciences, 2019 - dergipark.org.tr
... The aim of this study is to measure the satisfaction of tram transportation services in Gaziantep city and to investigate the differences among users according to demographic factors. For this purpose, a questionnaire was applied and the data were analyzed in SPSS 23 statistical ...
☆ 99 Alıntılanma sayısı: 3 İlgili makaleler 6 sürümün hepsi

Google Akademik "Gaziantep University" waste & sustainability

Makaleler Yaklaşık 226 sonuç bulundu (0,07 sn)

Tüm zamanlar
2021 yılından beri
2020 yılından beri
2017 yılından beri
Özel aralık...
2018 — 2020
Ara

Alakaya göre sırala
Tarihe göre sırala

Herhangi bir dil
Türkçe sayfalarda ara

Tüm türler
 patentleri içer
 alıntılar

A STUDY ON THE POSSIBLE USE OF INDUSTRIAL WASTE IN ROLLER-COMPACTED CONCRETE PAVEMENT
G KAPLAN, HY ARUNTAŞ... - UEMK 2018 BİLDİRİ 2018 - uemk.gantep.edu.tr
... such as fly ash (FA), silica fume (SF) and blast-furnace slag (BFS) as additives in concrete production has been increasing with an emphasis on environmental sustainability and they have become components of concrete. Also known as artificial pozzolans, these mineral ...
☆ 99 İlgili makaleler 5 sürümün hepsi

[PDF] LIFE CYCLE ASSESSMENT OF RENEWABLE ENERGY SOURCES: A REVIEW FOR CARBON FOOTPRINT
PS YAPICIOĞLU - UEMK 2018 BİLDİRİ ÖZETLERİ KİTABI 18 2018 - uemk.gantep.edu.tr
... have motivated researches for new energy resources and sustainable energy technologies. Renewable energy sources are considered ... air, dust and greenhouse gas emissions, wastewater and solid wastes. Impact analysis means the evaluation of the outputs and classifying ...
☆ 99 İlgili makaleler 4 sürümün hepsi

[PDF] ENERGY CONSUMPTION OF COMMERCIAL BUILDINGS
AATMACA - researchgate.net
... There are many other studies about the sustainability of residential buildings in the literature [16-29]. ... It is the total amount of energy consumed by the real destruction procedure and energy needed to carry the trash. It represents only a little amount of entire life cycle energy ...
☆ 99 İlgili makaleler

"Gaziantep University" water & sustainability

Q

Makaleler Yaklaşık 367 sonuç bulundu (0,07 sn)

Tüm zamanlar

2021 yılından beri

2020 yılından beri

2017 yılından beri

Özel aralık...

2018 — 2020

Ara

Alakaya göre sırala

Tarihe göre sırala

Herhangi bir dil

Türkçe sayfalarda ara

Tüm türler

patentleri içer

alıntılar

[PDF] REPUBLIC OF TURKEY **GAZİANTEP UNIVERSITY GRADUATE SCHOOL OF NATURAL & APPLIED SCIENCES** [PDF] researchgate.net

AAÇIKGÖZ - 2019 - researchgate.net

... Mechanical Engineering **Gaziantep University** ... In later stages, gear systems were also used to transfer **water** from rivers. Gear mechanisms, which are very ... steels with low treatment distortion could significantly reduce costs and contribute to environmental **sustainability**. ...

☆ İlgili makaleler

Sürdürülebilir Kalkınma Kapsamında Türkiye'de Denizler ve Deniz Ürünleri Profili [PDF] dergipark.org.tr

S. YILDIRIM, M. KAPLAN - **Gaziantep University Journal of Social** ..., 2020 - dergipark.org.tr

... 2030 **Sustainable** Development Goals are an important and good guide for **sustainable** development. These goals put forward by United ... adopt **sustainable** breeding methods especially in seafood. - The reports of **water** footprint should be followed to determine **sustainability** of ...

☆ İlgili makaleler 6 sürümün hepsi

[PDF] Grey **water** footprint of bioenergy: a case study of a UASB reactor [PDF] academia.edu

PS YAPICIOĞLU - UEMK 2018 BİLDİRİ ÖZETLERİ KİTABI 18-19 ..., 2018 - academia.edu

... A tool has been developed by **Water** Footprint Network (WFN) for the assessment of **water** pollution capacity that is called as the grey ... **Sustainability** of national consumption from a **water** resources perspective: The case study for France. Ecological Economics, 88, 133-147. ...

☆ Alıntılanma sayısı: 1 İlgili makaleler 4 sürümün hepsi

PERFORMANCE ANALYSIS OF A MEDIUM TEMPERATURE SOLAR [PDF] dergipark.org.tr

[PDF] researchgate.net

[PDF] dergipark.org.tr Full View

[PDF] academia.edu

[PDF] dergipark.org.tr

"Gaziantep University" energy & sustainability

Q

Makaleler Yaklaşık 498 sonuç bulundu (0,02 sn)

Tüm zamanlar

2021 yılından beri

2020 yılından beri

2017 yılından beri

Özel aralık...

2018 — 2020

Ara

Alakaya göre sırala

Tarihe göre sırala

Herhangi bir dil

Türkçe sayfalarda ara

Tüm türler

patentleri içer

alıntılar

[PDF] ENERGY CONSUMPTION OF COMMERCIAL BUILDINGS [PDF] researchgate.net

AATIMACA - researchgate.net

... Embodied **energy** can be separated into two principal parts: Primary embodied **energy**: the **energy** embodied in a building's primary construction, Frequent embodied **energy**: The **energy** required to design and replace building materials over the useful life of a building. ...

☆ İlgili makaleler

The human development relies on renewable **energy**: evidence from Turkey [PDF] cag.edu.tr

E. Satrovic - 2018 - openaccess.cag.edu.tr

... The author was also interested in giving evidence on the role of **energy** in **sustainable** and economic development. The author uses panel data ... Taking this into account, renewable **energy** can be regarded as supportive tool in **sustainable** development of Turkey. This is why this ...

☆ Alıntılanma sayısı: 8 İlgili makaleler 5 sürümün hepsi

[PDF] SUSTAINABILITY ASSESSMENT OF ENERGY STORAGE ALTERNATIVES THROUGH AN INTEGRATED FUZZY-BASED MCDM METHODOLOGY [PDF] researchgate.net

M ÇOLAK, İ KAYA - UEMK 2018 BİLDİRİ ÖZETLERİ KİTABI 18-19 ..., 2018 - researchgate.net

... In this paper, it is aimed to determine the most **sustainable** one among four different **energy** storage alternatives by using an integrated fuzzy MCDM methodology that consists of interval type-2 fuzzy AHP and hesitant fuzzy TOPSIS methods. While the weights of evaluation ...

☆ İlgili makaleler 3 sürümün hepsi

[PDF] researchgate.net

[PDF] cag.edu.tr

[PDF] researchgate.net

Examples of scholarly publications on sustainability (Gaziantep University)

Description:

Example of events **scholarly publications on sustainability** in the academic year 2018-2020.
A total average per annum over the last 3 years of **1658 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

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:

2018: 21

2019: 30

2020: 32

A total average per annum over the last 3 years of **83 events** (e.g. conferences, workshops, awareness raising, practical training, etc.).

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

<http://kaliteguvence.gantep.edu.tr/pages.php?url=hakkinda-51>

6.11. Sustainability report is published annually.

<http://kaliteguvence.gantep.edu.tr/pages.php?url=surdurulebilirlik-raporlari-69>

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





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 cope with Covid-19 pandemic

GAUZEM UZAKTAN EĞİTİM UYGULAMA VE ARAŞTIRMA MERKEZİ

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

EĞİTİM VİDEOLARI SAYFASI

EĞİTMENLER İÇİN ÖDEV TANIMLAMA İŞLEMLERİ

ÖĞRENCİLER İÇİN ONLINE SINAV UYGULAMA ADIMLARI

SANAL SINIF EĞİTMEN CANLI DERS EKRANI ANLATIMI

KONTROL PANELİ DERSLERE GENEL BAKIŞ

SORU BANKASI OLUŞTURMA VE SINAV TANIMLAMA (EĞİTMENLER İÇİN)

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

Google Play App Store

Panel İbif Davut Gül - Gaziantep Bekir KAYACAN Ayfer Gedikli Yakup Bulut Arif ÖZAYDIN Gaziantep BENGÜ KAYAPALI Yakup Durmaz Ferda Nakipogluoz... feyza özdenç Taner Akçacık KEREM KARABULUT... Prof. Dr. İdris Demir... Kemal YILDIRAN ÖMNE 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 SINIRLIDIR
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 تم تمويله من قبل الاتحاد الأوروبي



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

"Geçici Koruma Sağlanan Suriyeliler ve Türk Vatandaşları için İşletmelerin ve Girişimciliğin Geliştirilmesi Projesi"
Girişimcilik Webinarına katılımınız bizi 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 education. 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.

6.15. 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> <p>Description: <i>please briefly describe startup history, aims and scope of work, its primary product/activity, size of the startup (e.g. in term of number of employees, annual income, valuation, number and scope of the activities, etc.)</i></p> <p>Photos: <i>please put some photos that can help explain the above description. Photos can also be added inline with the above description.</i></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: Güneş Panelleri</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 Battary,elektrik tasarrufu</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: Hava Temizleme Cihazı</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:Hava Temizleme Cihazları</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:Atık Su</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:Isı geri kazanımı</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: Hafriyat Yönetim Ve Bilgi Sistemi</p> <p>Photos:</p> |
|--|--|