



University : Ege University

Country : Turkey

Web Address : <u>www.ege.edu.tr</u>

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#### 12.2.3 : Policy waste disposal - hazardous materials

#### 12.2.3.1 : Waste tracking

#### **EGE UNIVERSITY WASTE MANAGEMENT**

Ege University operates a comprehensive Integrated Waste Management System aligned with the Zero Waste Action Plan, emphasizing the principles of prevent, reduce, reuse, recycle, and recover. The "Leaf–Branch–Trunk" model governs all stages—from waste generation to disposal—ensuring compliance with environmental legislation and fostering a culture of sustainability across campus operations.

#### GENERAL WASTE MANAGEMENT AND ZERO WASTE IMPLEMENTATION

- The Zero Waste Action Plan aims to elevate the university from the basic level to Platinum status.
- A Zero Waste Commission supervises daily operations, data tracking, and awareness activities.
- Waste categories include packaging, hazardous, medical, electronic, organic, and non-recyclable materials.
- Mobile Waste Collection Centers at strategic points (Faculty of Dentistry, Medicine, and Metro entrance) support public participation.





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#### TOXIC AND HAZARDOUS WASTE MANAGEMENT

- Laboratory chemicals are stored in hazardous waste stations and incinerated through licensed facilities.
- Electronic waste, waste oil, batteries, and expired pharmaceuticals are collected and recycled.
- Collaboration with TAP Association ensures battery collection and awareness.
- Waste medicine boxes enable safe disposal of expired drugs.
- The Toxic Waste Management Booklet provides legal codes and labeling guidance.

# According to the Waste Management Regulation issued by the Ministry of Environment, Urbanization and Climate Change:

All hazardous wastes must be properly managed.

Therefore, the 100% safe disposal of toxic wastes is mandatory across all university campuses.

- All laboratory chemicals at our university are collected and sent to licensed incineration facilities through authorized companies.
  - **Electronic waste** is **delivered to the government** for recycling in accordance with national recycling procedures.
  - Batteries are recycled through an agreement with TAP (Battery Recycling Association), ensuring that valuable heavy metals are recovered and reintroduced into the production cycle.





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## ACCORDING TO THE WASTE MANAGEMENT REGULATION ISSUED BY THE MINISTRY OF ENVIRONMENT, URBANIZATION AND CLIMATE CHANGE:





All hazardous wastes must be properly managed.

100% safe disposal of toxic wastes is mandatory on all university

# LABORATORY CHEMICALS



All laboratory chemicals at our university are sent to licensed incineration facilities through authorized companies.

# ELECTRONIC WASTE



Electronic waste is delivered to the government for recycling.

### USED COOKING OIL



Used cooking oils are convered into biodiesel

Management of toxic wastes in Ege University







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LAB CHEMICALS



Hazardous wastes generated in laboratories are collected in hazardous storage stations and disposed within legal periods. Within this scope, trainings in coordination with the Ministry of Environment and Urbanization are given to our personnel assigned as hazardous waste coordinator and controls are made regarding the process.

Students and staff store the waste they produce in appropriate containers and label them. Waste codes are attached on the label. This code is a special code given by the Ministry of Environment for each waste and students and staff





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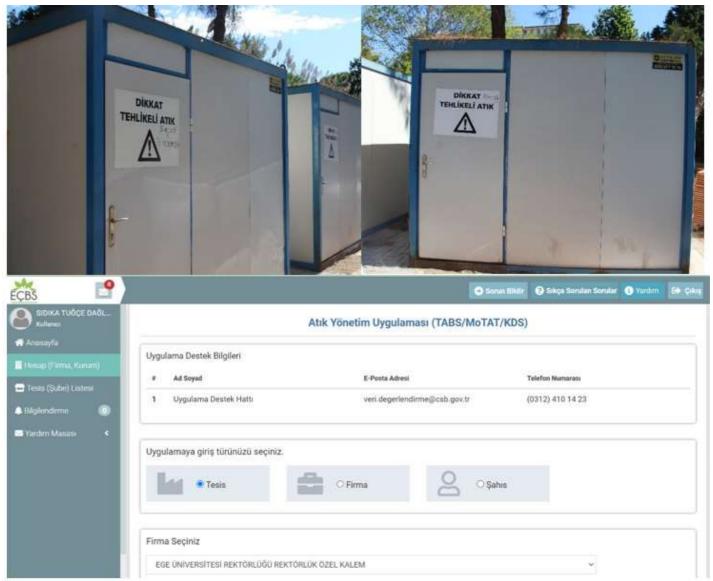
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can easily access these codes with the booklet given above.

RESPONSIBLE CONSUMPTION AND PRODUCTION

These wastes are then taken to a temporary storage station and given to a company with a transportation permit for

incineration and safely removed.



Hazardous waste containers located outside for each department. At this location, wastes are delivered to licensed hazardous waste transportation companies and detailed data are submitted to the online web site of the Ministry of Eenvironment.



Country



### **Template for Evidence(s)**

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Ege Ünv.-Evrak Tarih ve Sayısı: 12.01.2023-E.1084237

Turkey

12 CO

CONSUMPTION

AND PRODUCTION



03.01.2023

Sayı :E-11141585-100-5411461

Konu : Endüstriyel Atık Yönetim Planı Onayı (Ege

Üniversitesi Hastanesi)

EGE ÜNİVERSİTESİ REKTÖRLÜĞÜNE (Çevre Sağlık Hizmetleri Birimi)

İZMÎR VALİLIĞİ Çevre, Şehircilik ve İklim Değişikliği İl Müdürlüğü

: 07.12.2022 tarihli ve 30576453-611.01.03.01-E.1022765 sayılı yazınız.

İlgi dilekçeyle, İlimiz Bornova İlçesi, Kazım Dirik Mah. Üniversite Cad. No:9 adresinde yer alan "EGE ÜNİVERSİTESİ SAĞLIK UYGULAMA ARAŞTIRMA MERKEZİ" için düzenlenmiş olan Endüstriyel Atık Yönetim Planının (AYP) onaylanması talep edilmiştir.

İlgi dilekçeyle sunulan başvuru dosyasında ve 27.12.2022 tarihinde yerinde yapılan inceleme sonucunda Endüstriyel AYP'nin onaylanması uygun bulunmuştur.

Ilgi dilekçe ekindeki Endüstriyel AYP, onay yazımız tarihinden itibaren 3 (üç) yıl süre ile geçerli olup; geçerlilik tarihinin bitmesine 3 (üç) ay kala revize edilen planın onay almak üzere Il Müdürlüğümüze sunulması gerekmektedir. Ancak geçerlilik süresi içinde onaylı Endüstriyel AYP'de değişiklik yapılmasını gerektirecek bir durumun oluşması halinde (atık tür, geri kazanım ve bertaraf yöntemlerinizde değişiklik olması durumunda) revize edilmiş olan Endüstriyel AYP'nin 1 (bir) ay içerisinde Il Müdürlüğümüz onayına sunulması gerekmekte olup ilgili Yönetmelik hükümlerine uyulmadığının tespit edilmesi durumunda çevre mevzuatı kapsamında işlem yapılacağı hususlarında;

Bilgilerinizi ve gereğini rica ederim.

Göktürk BURSALI Müdür a. Çevre, Şehircilik ve İklim Değişikliği İl Müdür Yrd.

Hazardous waste compulsory liability insurance





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RESPONSIBLE CONSUMPTION

AND PRODUCTION



Cevre Şehircilik ve İklim Değişikliği Bakartığı

ZIRVE SIGORTON





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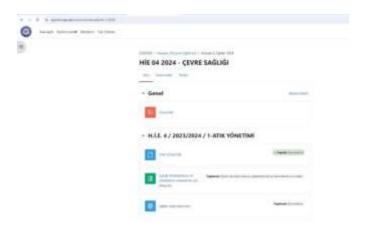
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Our university staff receive environmental health training at regular intervals.



Ege University implements an "Integrated Waste Management System" to ensure the environmentally safe disposal of hazardous wastes generated from educational, academic, research, and service activities.

In the approach of "Waste Management," the "Leaf-Branch-Trunk" model is employed, encompassing processes from the point of waste generation to its environmentally sensitive disposal. "Waste Reduction" constitutes the backbone of our university's <u>Sustainable Green University policy</u>, implemented since 2017.





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Ege University has become one of the 10 pilot universities where the protocol will be implemented as a result of the sustainable studies it has carried out with the slogans of "Green Campus" and "Climate-Friendly Campus". Ege University Zero Waste Action Plan was prepared to move from the basic level to Silver, Gold and Platinum levels, aiming for the smooth operation of the zero waste system and waste reduction. Ege University has established a Zero Waste commission for the realization and follow-up of these works. As of 2023, activities will be carried out according to the action plan.

#### HAZARDOUS WASTE DISPOSAL POLICY OF EGE UNIVERSITY

Ege University follows 4 steps in its hazardous waste policy.

Recognizing waste
 Coding waste
 Labeling waste
 Storing and disposing of waste

Figure 1.



Type of hazardous material in EgeU	Unit	Type of management
Lab. chemicals	All department	Figure 1
Medical wastes	Hospital, dentistry, biology, etc.	Figure 2
Electronics	All department	Figure 1
Waste	All department	Figure 1





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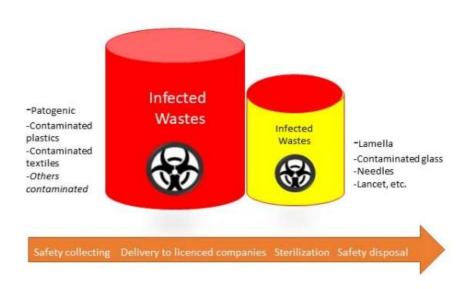
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battery



Figure 2



Medical waste disposal policy of Eu Medical Faculty and Hospital



a) Coding and labeling b) Contemporary storage c) Inside of the storage

SOME GOOD PRACTICES IN EGE U

1. Waste Battery

Online meeting with our vice-rector and waste coordinators





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Online meeting on "Waste Battery Training" with our Faculties of Dentistry, Agriculture, Pharmacy, Engineering and Nursing.

#### 2. Electronic Wastes



Department of Information Technology electronic waste

Since electronic wastes are fixed assets, they are kept by the financial departments of the units on our campus and sent to the Machinery and Chemical Industry with a receipt in accordance with the laws of our country. In addition, mobile waste centers have areas open to the public where electronic waste can be disposed of.





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1. BIBINCS SINIF 2. AĞİR VASIFLI DEMİR ÇELİK 3. ORTA VASIFSI DEMİR ÇELİK 4. HAFIF VASIFLI DEMİR ÇELİK 5. DİĞER OEMİR ÇELİK 6. TEYLÜSELİ ATIRLA KONTAMİRE OLMUŞ ÜÇ 7. PİK 8. BARIR (PARÇA) 9. STOK FAZLASI BARIR TEL 10. RADYATOR BAKIRI 11:P. KARLO HIRDASI (DIER NEVİ) 12. STOK FAZLASI KARLOSU 13. PARÇA VE KÜLÇE HALIMOE ELIRŞLIN 14. AKLI KURŞLIN CURLIFU. 15. PARÇA HALİMDE ÇIPLAK ALIMİNYLIM 16. BÜNYESI DEMİRLI ALIMİNYLIM 17. PASLANMAZ 18. STOK FAZLASI 20. ELEKTRİK ELEKTRONİK 20. JARLO 21. POLSOR BRONZ ARA IŞI 22. FOLSOR BRONZ ARA IŞI 23. ÇÜNKO
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#### 3. Toxic wastes

The management of hazardous waste management in our campus continues on a regular basis, as in previous years. In order for the management to be carried out in an orderly educations are carried out on a regular basis for staffs.





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4.



Zero Waste Management Certificate awarded by the Ministry of Environment and Urbanization (Until 2025)

Ege University was chosen as the leading university within the scope of the 'Zero Waste' Project initiated by the Ministry of Environment and Urbanization. Ege University was the first state university to implement the project, which was initiated to use resources more efficiently and reduce the amount of waste.





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The Portable Battery Manufacturers and Importers Association (TAP, https://tap.org.tr) was contacted and provided Waste Battery boxes for all of our departments on each floor. At the same time, posters prepared by TAP were procured and placed on these waste battery boxes on the floors to raise awareness. On the other hand, it was aimed to raise awareness of environmental protection by distributing Small Waste Battery boxes to the rooms of all our academic and administrative personnel in our departments, and this service was offered up to the offices.



Ege University implements an integrated waste management system. Within the scope of this waste management, packaging wastes, hazardous wastes, organic wastes, etc. are managed in accordance with the zero waste regulation. As a result of these applications, Ege University was entitled to receive the first document given in the images above.

We have a zero waste booklet and a green university guide to raise awareness of students, academics, staff and the public on the subject.





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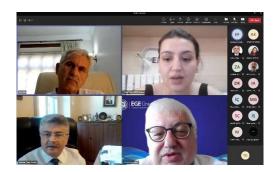




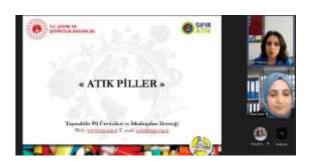
Within the scope of the zero waste project, indoor recycling bins (5200 units) were placed in all buildings within the University, and outdoor recycling bins (94 units) were placed outside of all buildings.

The temporary storage area was equipped with high-volume garbage containers (4 units) to store recyclable waste collected from university buildings.

The management of hazardous waste management in our campus continues on a regular basis, as in previous years. In order for the management to be carried out in an orderly educations are carried out on a regular basis for staffs.



Online meeting with our vice-rector and waste coordinators







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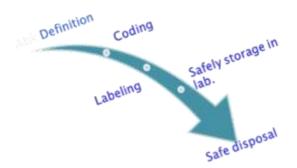
Nursing.





There are waste batteries, waste oil and electronic waste boxes in mobile waste collection centers. Available for all campus visitors and society (https://twitter.com/EUCevreMerkezi/status/1635621594558091265)

#### Management of toxic wastes



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**Electronic waste management** 

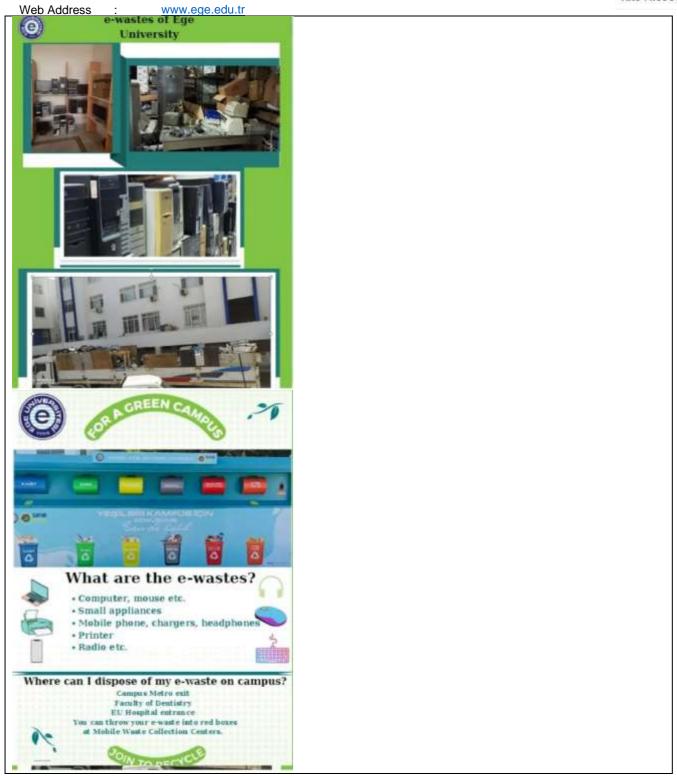




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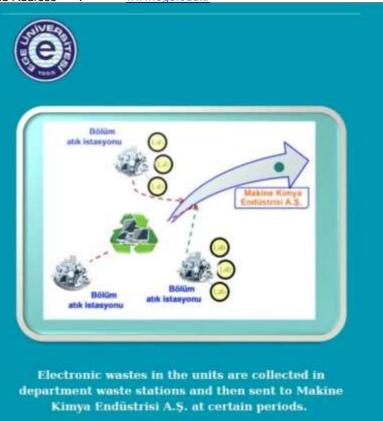


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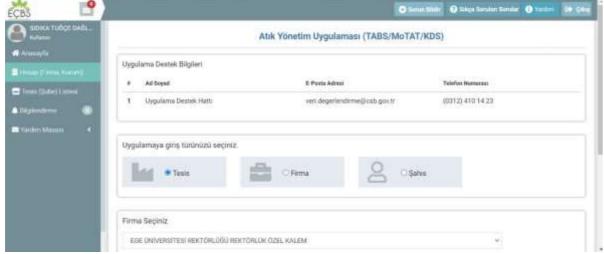


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Hazardous waste containers located outside for each department. At this location, wastes are delivered to licensed hazardous waste transportation companies and detailed data are submitted to the online web site of the Ministry of Eenvironment.



Waste Pharmaceutical Collection Box: There is a Waste Medicine Box in our units within the scope of the "Pharmaceutical removal from home to environment for environmental health" project carried out within the scope of the Social Responsibility Project at our university. All personnel bring waste drugs to this box and leave them under the auspices of the officer. It is known that the disposal of drugs that are used in the treatment of various diseases and whose expiration date has expired, with inappropriate methods cause significant environmental problems. By ensuring that these wastes are collected and delivered to the relevant units and destroyed in accordance with the relevant laws, less damage to the environment is ensured.





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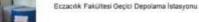
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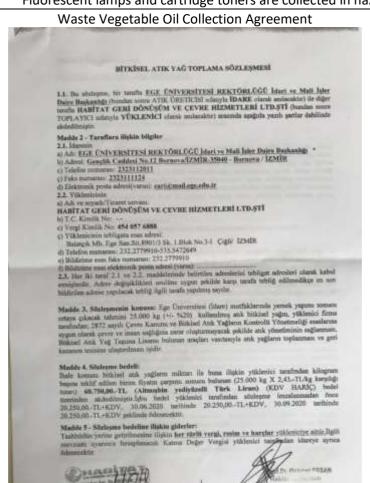








Fluorescent lamps and cartridge toners are collected in hazardous waste areas as toxic wastes.



Example of Toxic Waste Treatment Usage: Hazardous waste collection area (Ege University, Turkey)





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Since the year 2011, all of the studies and implamentation in the main campus in this context carried out according to Ege University Hazardous Wastes Directive (2011) and Ege University Hazardous Wastes Directive Practice Principles (2011) and national legislation.

Ege University was chosen as a leading university within the scope of the 'Zero Waste' Project initiated by the Ministry of Environment and Urbanization. Ege University was the first state university to implement the project, which was initiated to use resources more efficiently and reduce the amount of waste.



Ege University Hazardous Wastes Directive (2011) and Ege University Hazardous Wastes Directive Practice
Principles (2011)

#### **Related links:**

http://euatik.ege.edu.tr/files/euatik/icerik/eu tehlikeli atiklar uygulama.pdf http://euatik.ege.edu.tr/files/euatik/icerik/eu tehlikeli atiklar yonergesi.pdf https://euatik.ege.edu.tr/



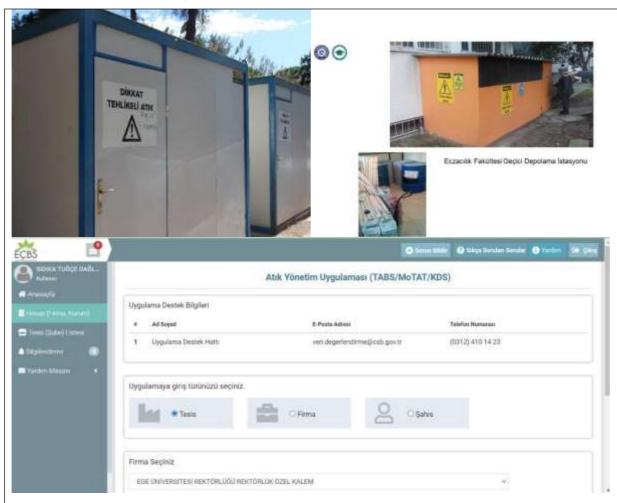


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Hazardous wastes generated in laboratories are collected in temporary storage stations and disposed within legal periods. Within this scope, trainings in coordination with the Ministry of Environment and Urbanization are given to our personnel assigned as hazardous waste coordinator and controls are made regarding the process <a href="https://euatik.ege.edu.tr/tr-9296/atik.ege.edu.tr/tr-9296/atik.ege.edu.tr/tr-9296/atik.ege.edu.tr/tr-9296/atik.ege.edu.tr/tr-9296/atik.ege.edu.tr/tr-9296/atik.ege.edu.tr/tr-9296/atik.ege.edu.tr/tr-91906/atik.ege.edu.tr/tr-9296/atik.ege.edu.tr/tr-9296/atik.ege.edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr-91906/edu.tr/tr



In our university campus, used batteries are collected separately. These batteries are collected by the portable battery manufacturers association (TAP) whose duty is the collection of waste batteries to ensure environmentally compatible management, handling, recycling

Each Faculty has a battery box within its own buildings and all battery waste is transported free of charge to the government-appointed TAP.







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Vegetable waste oils produced in central kitchens and cafeterias are collected in separate containers and delivered to a licensed company for use in biodiesel or industrial oil production.

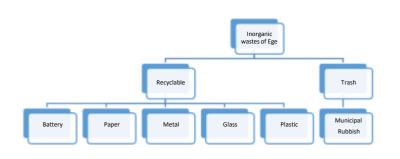
vegetable oil



Waste Vegetable Oil Collection Agreement and waste declaration forms.

Temples of evidences on recyclable wastes is given in costions 12.2.4.12.4.6













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Ege University Faculty of Medicine Hospital located in the Health Campus,, which has a capacity of 1816 beds, provides training services as well as outpatient and inpatient services in 17 major branches, 12 major surgeries, 18 minor surgeries, and 15 basic medical units. Ege University Faculty of Medicine Hospital was selected as "A Plus Hospital" with 96.28 points in the evaluation made by the Department of Productivity and Quality of the Ministry of Health in 2019.



https://egehastane.ege.edu.tr/files/egehastane/icerik/tanitimkitapcigi.pdf

The documents prepared for the safe use and disposal of hazardous chemicals within the term without wasting at Ege University Hospital is made available to employees in the Quality Document Management System (QDMS) and . Hazardous and medical wastes are managed in line with the "Waste Management Plan" and the "Industrial Waste Management Plan" approved by the Ministry of Environment and Urbanization





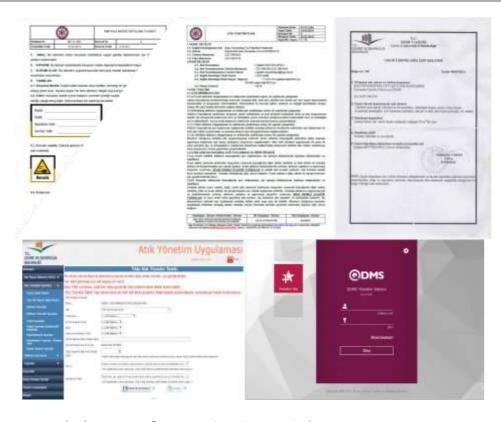


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**Example documents for Ege University Hospital waste management system** 

During all these services, various wastes are generated in the hospital. These wastes according to the regulations and Waste Management Plan are separated according to their type at their source, collected, transported and temporarily stored and their disposal is provided by licensed companies or institutions .





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Management of radioactive waste is carried out in line with Republic of Turkey Atomic Energy Agency regulations. Radiology laboratories have switched to a digital system, and radiology bath solution wastes are not formed, but if there is a need for legal preservation, or X-ray films that have expired in the archive, they are delivered to licensed companies for recovery and disposal.

Operating rooms, outpatient clinics, laboratories, such as hospital units with technical and administrative units power the scrapped and electronic equipment inventory drops storing of office supply unit after the "Republic of Turkey Mechanical and Chemical Industry Corporation" to licensed firms through are delivered.

#### Related documents and date of release about the hospital waste management system;

- Hazardous Materials Management Plan (first 2011, revised April 12, 2013)
- Hazardous Materials Activity Certificate 2016-2021
- Industrial Waste Management Plan (approved by the Ministry of Environment and Urbanization)
- Chemical Storage Instruction (April 12, 2013)
- Waste Management Plan (first March 13, 2015, revised July 25, 2019
- List of Classification of Wastes Arising from Healthcare Institutions
- List Of Dangerous Waste Codes And Definitions March 13, 2015
- Temporary Storage Permit, (August 05, 2014)