

**No. KFUEIT/QEC/2020/411**

**March 18, 2020**

**Notification**

Pursuant to the approval of the Competent Authority, the committee regarding the **Waste Generated, Recycled and Disposal** comprising of the following members is hereby constituted with immediate effect till further orders.

<b>Sr. No.</b>	<b>Name &amp; Designation</b>	<b>Status</b>
1	<b>Dr. Muhammad Sagir</b> Associate Professor/Registrar	Convener
2	<b>Dr. Muhammad Babar</b> Assistant Professor	Member
3	<b>Dr. Shahid Atiq</b> Associate Professor/ Controller Examination	Member
4	<b>Dr. Samina Sarwat</b> Assistant Professor, Department of Humanities & Social Sciences	Member
5	<b>Dr. Umair Azhar</b> Assistant Professor	Secretary

The Committee shall be responsible for implementation and recommendation for revision of policy related to *Waste Generated, Recycled and Disposal*. The committee shall organize necessary workshops, seminars and walks regarding the said policies.



**Dr. Muhammad Asghar Hashmi**  
Director

**Copy To:**

1. PS to VC, KFUEIT, RYK
2. Office of the Dean of All Faculties, KFUEIT, RYK
3. PA to Registrar, KFUEIT, RYK

**Khwaja Fareed University of Engineering & Information Technology,  
Rahim Yar Khan**

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## **Introduction**

The waste-free environment is unimaginable. Growing population, extensive industrialization, high living standards, lack of management and resources have been observed to be the prime reasons for increasing the waste-related issue. According to a rough estimate, 12.6 million people die every year because of improper handling of waste. This alarming situation has motivated the researchers and stakeholders to find a way out to this problem globally. Meanwhile, in developing countries like Pakistan, India, and Bangladesh the situation is different and management of Solid Waste consists of the primary and secondary collection and open dumping. Pakistan is reported to be the 20<sup>th</sup> major waste-producing country worldwide. Unfortunately, the current waste management scenario in Pakistan is far from a satisfactory level and yet to be improved. Keeping in view the need of the hour, the project is established to explore the status of waste and its management system in the university premises to study the following objective:

- To quantify the volume and types of waste produced in the university
- To segregate the types of waste by using different color waste bins
- To sale the different type of waste (Paper, Plastic, and Tin, etc.)

## **Outputs and Impacts**

The university provided civic services for the staff and students for disposing of the garbage and hence keep the environment clean. Initially, university waste was dumped on an open site and all different types of wastes were mixed and segregation process was very difficult to achieve. The present project started an awareness campaign about the storage of the domestic garbage as per recycling SOPs: glass, tin, plastic and junk foods should be stored in specified colored containers. Three different colors of waste bins have been installed in different sites of the university. These different colors waste bins are used for the different types of waste. The detail of the types of waste with respective bins is showed in Figure 1.

## **Number of beneficiaries**

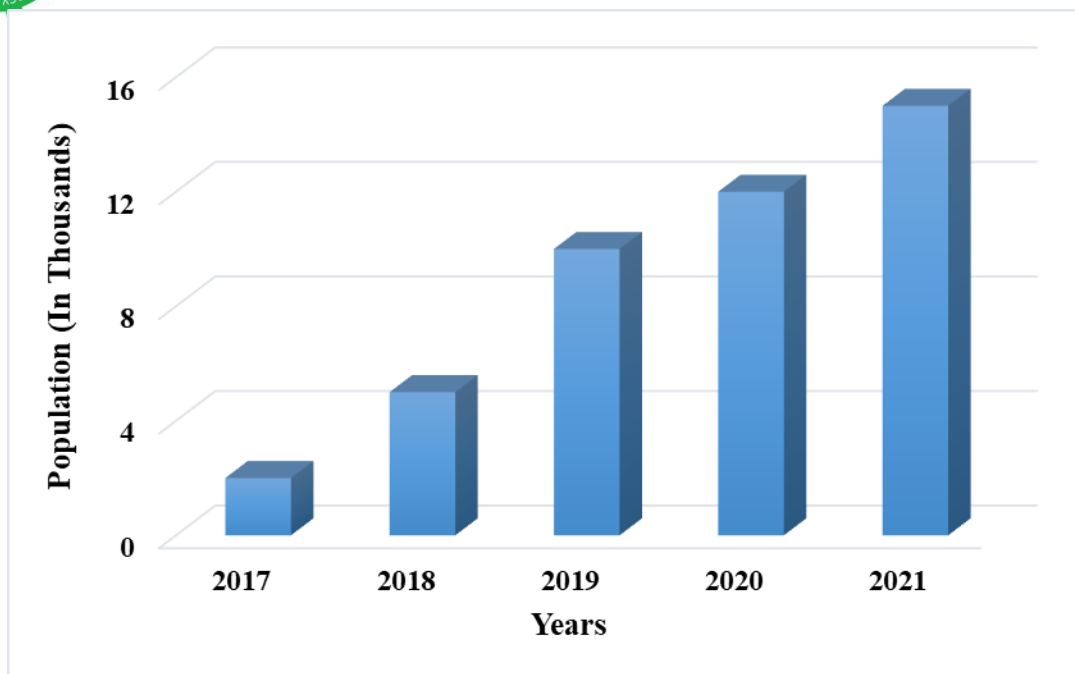
University has more than 5,000 staff and students. The awareness posters and seminars were conducted in the university to aware the communities of the university about the different type



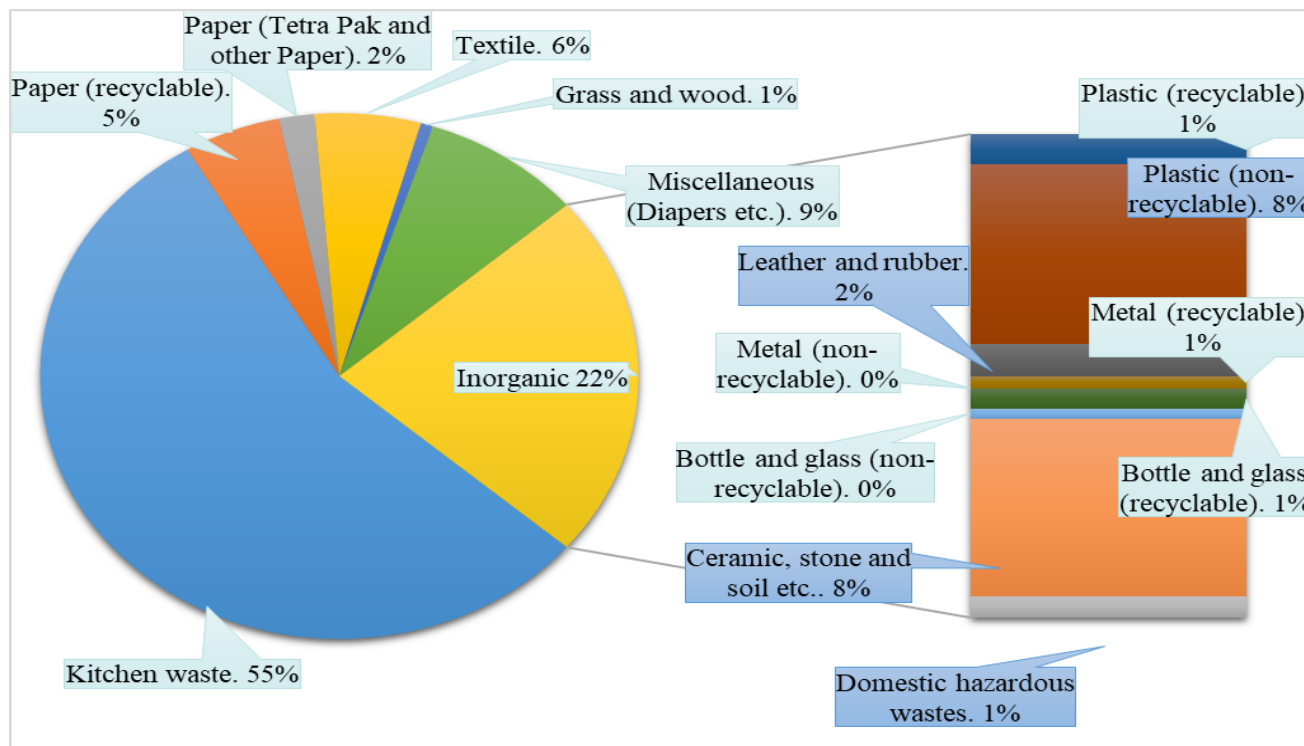
of wastes and their respective bins. The number of beneficiaries' data is shown in figure 2. The composition of the waste from the different bins are analyzed and shown in figure 3.



Figure 1. Poster for the awareness of the community



**Figure 2.** Number of beneficiaries of the Project



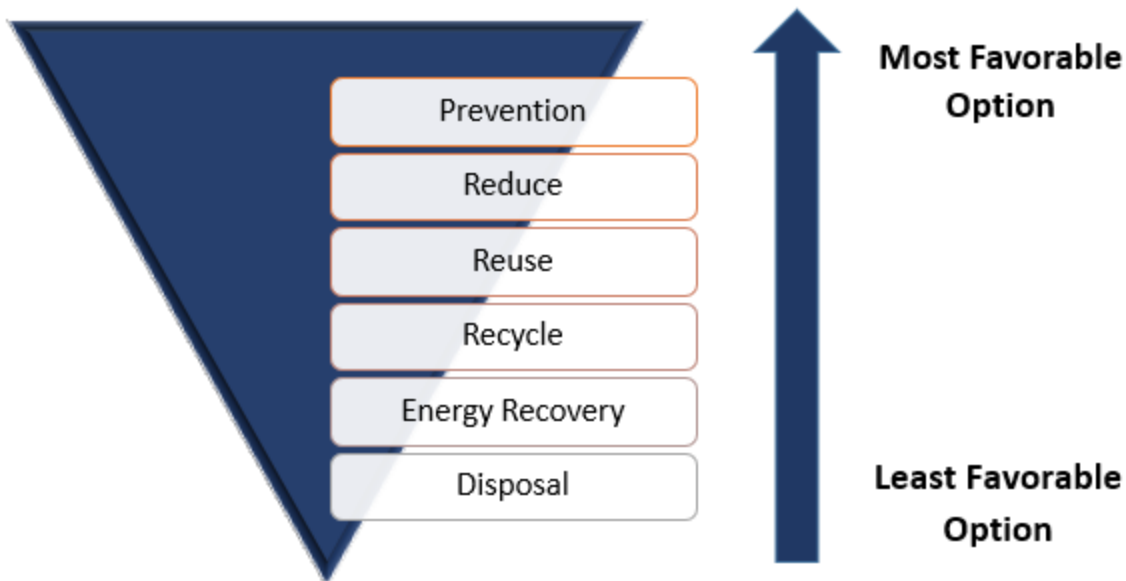
**Figure 3.** Different composition of the waste



### **Overall outcome and sustainability of Project**

New types of programs should be given consideration, such as selling waste and recyclable materials. This can serve as a powerful incentive to improve budget issues. Similarly, a coordinated system of garbage sorting and recycling can be developed, to reduce the burden on landfill sites and generate additional revenues.

The adequate treatment of the waste or sustainable waste management is essential not only from a sanitation point of view but also due to its economic and environmental values including its potential contribution to energy generation in the developing countries. Many of the developed nations have adapted the approach and strategies of the integrated waste management system (Figure 3) to maximize the waste-based revenues in the form of energy, fuels, heat, recyclables, value-added products, and chemicals along with more jobs and business opportunities. As a result, waste is no longer seen as refuse or discarded material, but an asset or resource to reduce not only the landfill volumes but also the dependency on fossil fuels by generating clean fuels.



**Figure 4.** Favourable Options for Solid Waste

Solid Waste can be segregated according to the physical composition of waste. For the time being as collected waste from the tins has been sold. Further process is underway to recycle it.



This project, comprising waste segregation and composting of biodegradable waste, is a good example of a highly integrated approach accounting for the different elements of project sustainability. Attention was paid already during the planning stage to both technical appropriateness and to involving the local authorities (staff & students). This gradually led to a more comprehensive approach and finally to an organizational involvement of these institutional actors as well as a hand over of responsibilities to the respective entities. Since technical appropriateness was not optimal from the start, it offers the potential for improvement. Yet, the assessment also revealed that the motivating factors to achieving improvement are ongoing and continuous.

The project has clearly improved the environment influences the performance of the university, and impacts on the social, economic and ecological environment.





**The Committee performed the following tasks regarding *Waste Generated, Recycled and Disposal***

**Recycling Program for University Waste**

<p>Project: Climate change, environment and pollution</p> <p>Recycling Program for University Waste (Khwaja Fareed University of Engineering &amp; Information Technology, Pakistan)</p>	
	
	





#### Description:

This Program was established to explore the status of waste and its management system in the university premises. Most of the waste produced in the university is recycled. The project primarily focuses on the following

- To quantify the volume and types of waste produced in the university
- To segregate the types of waste
- To reuse various types of waste accordingly after proper treatment

The university provided civic services for the staff and students for disposing of the garbage and hence keep the environment clean. The project started an awareness campaign about the storage of the domestic garbage as per recycling SOPs: glass, tin, plastic and junk foods should be stored in specified coloured containers. Three different colors of waste bins have been installed in different sites of the university. These different colors waste bins are used for the different types of waste

The project has clearly improved the environment influences the performance of the university, and impacts on the social, economic and ecological environment

**Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):**

<https://www.facebook.com/kfueit.official/photos/pcb.1952508734907926/1952508684907931>

<https://www.facebook.com/kfueit.official/photos/a.554863301339150/1953412834817516>



**Toxic Waste Handled**



**Toxic Waste Handled (Khwaja Fared University of Engineering and Information Technology)**

**Sewerage Disposal**

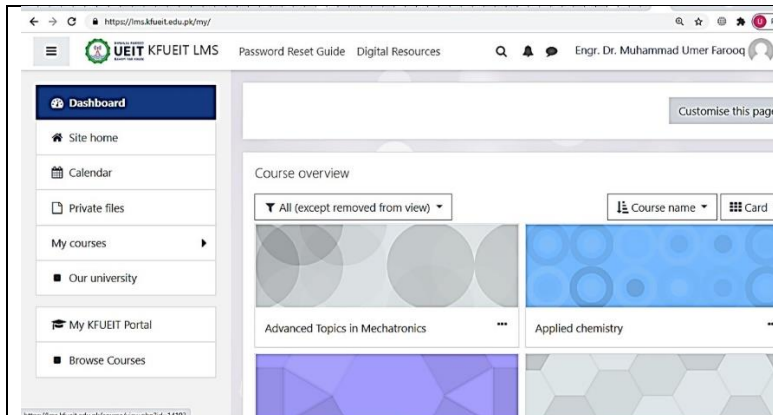


Water Treatment Plant (Khwaja Fareed University of Engineering and Information Technology)

**Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):**

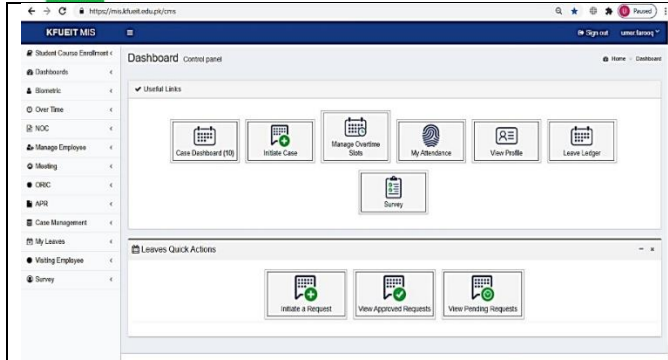
<https://ne-np.facebook.com/kfueit.official/videos/rohi-channel-carries-a-news-of-water-treatment-plant-to-purify-sewerage-water-an/1216714868791727/>

**Program to Reduce the Use of Paper and Plastic in Campus**

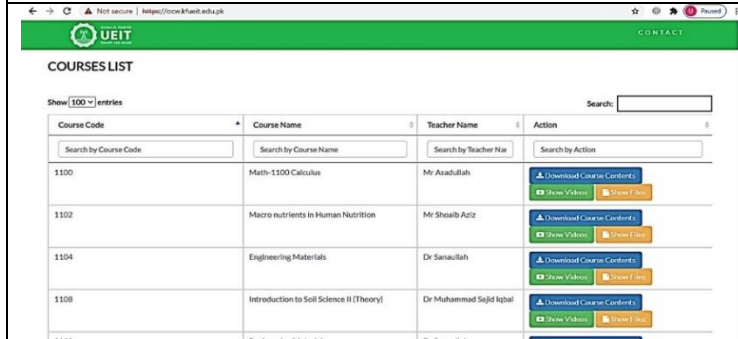


Online LMS System for faculty and students

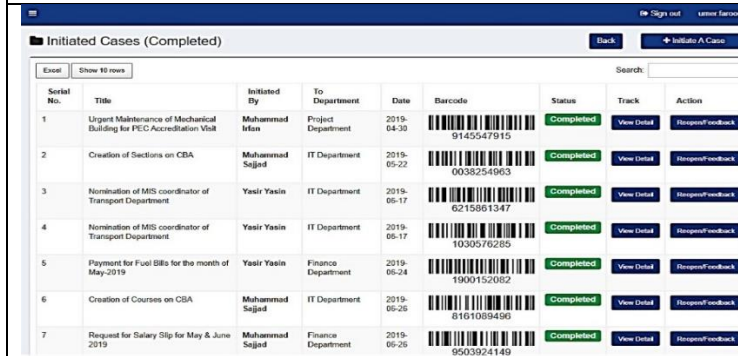




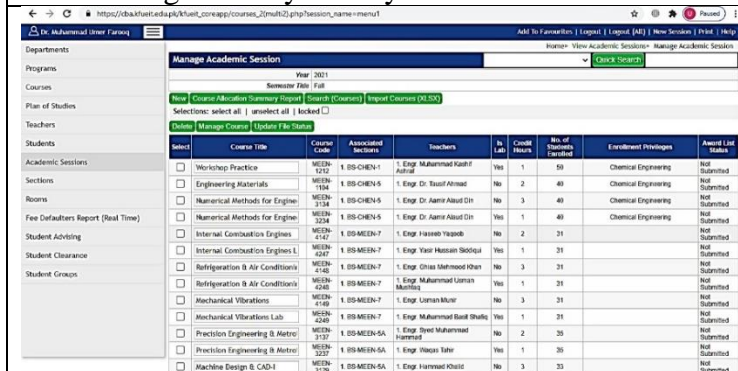
Online MIS System for University Staff



Complete courses available online for everyone by KFUEIT



Case Management System by KFUEIT



CBA system for complete examination data, enrollment, teacher allocation, result submission etc





Program to Reduce the Use of Paper and Plastic in Campus (Khwaja Fareed University of Engineering & Information Technology, Pakistan)

**Description:**

The KFUEIT has taken many initiatives to reduce the use of paper and plastics in campus. For instance, the employees' data is kept online via MIS tool developed by the KFUEIT. It provided wide range of services online to eliminate the need of paper; including complete record of the employee, leave application process, apply for NOC etc. The Case management system is developed to address various issues and problems via online, which eliminates the need for written application to be submitted. The Learning management system (LMS) is indigenously developed by KFUEIT to facilitate the learning experience of students as well as reduce the need of paper and printing. If absolutely necessary, the papers are printed but it is ensured that they are printed on both sides as a policy. Use of plastics for the paper binding, reports cover, and single-use plastics are highly discouraged. A series of seminars and trainings are conducted for efficient usage of resources and to reduce various types of wastes throughout the year.

Following are few projects secured and events organized regarding waste minimization and reduce the need for paper and plastic usage.

1. Higher Education Commission, Islamabad, Pakistan. Project # SIOP-032-18/R&D/HEC/2015, dated 04,2018
2. <https://www.facebook.com/kfueit.official/photos/pcb.1953412864817513/1953412801484186/>
3. <https://www.facebook.com/kfueit.official/photos/pcb.1953360178156115/1953360068156126/>