SEWAGE TREATMENT AT PRINCESS UNIVERSITY NOURAH BINT ABDULRAHMAN

By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity



Figure(1)

Faculty of Health interacts with "Environment for Us and Our Generations" Week

The Faculty of Health and Rehabilitation Sciences interacted with Saudi Environment Week, launched by the Ministry of Environment under the slogan "Environment for us and for our generations".

The college displayed images of motivational phrases on the electronic ad display on the ground floor, such as "Let's instill environmental awareness in all of us to have a healthy and sustainable environment."

Students Rima Al-Aiban and Reem Al-Nuweiser presented an awareness lecture entitled "Environment for us and our generations" with the aim of providing advice and guidance for environmental protection, such as intensifying tree planting for its role in climate change, using biodegradable materials, and using rainwater by preserving it for use in irrigating plants, and referring to the damage caused by non-conservation of the environment such as air pollution and water pollution.

Sewage Disposal

The purpose at PNU Wastewater Treatment Plant is to Treat the total raw sewage that will be collected from various university applications, both of suspended solids and biodegradable organic matters will be reduced through the treatment stages to an acceptable limit. The plant is capable to produce treated water that meets water reuse standards in volume and quality.





Technology used:

A combination of both Extended Aeration system and MBR technology in order to achieve the best water quality (micro-filtrated water) among other typical wastewater treatment processes and at the same time it saves space and cost. The primary treatment is designed to handle up to a daily flow of (10,400 m3/d) in phase I, and will adsorb the future expansion up to (13,000 m3/d) all in one stream.

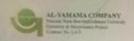
In the anther hand, phase I-biological treatment will be able handle up a daily flow of 10,400 m3/d in four streams, and able to handle the future expand up to (13,000 m3/d) in five streams.



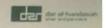


Recycling Program for University Waste

Recycling programs, policy and posters encouraging staff and students to recycle waste. Program to reduce the use of paper and plastic in Campus. The recommendations emphasized the importance of effective and supportive participation in the elimination of contamination by limiting the use of all types of plastics, and the need to move to the use of safe alternatives such as biodegradable plastics alternatives.









جامعة الأميرة نورة بنت عبدالرحمن للبنات - الرياض - الملكة العربية السعودية وكالة الجامعة للمنشأت و التشغيل المستخدمين الأعزاء (الأبنية العامة) فضلاً وضع النقايات في حاويات النقايات الخصصة لذلك * الملصق الأسود (النقايات العامة فقط) * الملصق الأربق (إعادة التدوير) مثل العلب المعدنية و الزجاج و البلاستيك * الملصق الأبيض للورق و الكتب و الورق المقوى و الكرتون فقط نحن جميعاً سوف نستقيد من هذه العملية: الجفاظ على الموارد الطبيعية و الجهود و الطاقة الحد من النقوت البيني لتوفير بيئة صحية

شكرأ لتعاونكم معنا

Princess Noura Bint Abdulrahman University for Women - Riyadh- K.S.A Vice Rectorate of Facilities and Operation of the University Dear User (Public Buildings)

Please throw all waste to the designated waste bins.

Black sticker for general waste bins.

Blue Sticker for recycling waste like, Cans, Glass, Plastic.

White Sticker for Paper, Books. Cardbigard and Carton only

We all will be benefited from this process such as:

Saving natural resources, efforts and energy.

Reduce environmental pollution to make this world comfortable for everyone.

To make fresh and healthy environment around you.
Thank you for your cooperation







جامعة الأميرة نورة بنت عبدالرحمن للبنات - الرياض - الملكة العربية السعودية Princess Noura Bint AbdulRahman University for Women Riyadh - K.S.A وكالة الجامعة للمنشأت والتشغيل

Vice Rectorate of Facilities and Operation of the University

تفليل - إعادة استخدام -إعادة تدوير Reduce, Reuse and Recycle

| General Waste | Recyclable Waste | Paper |
|-------------------------------------|-----------------------------|-----------------------|
| الغنايات | بيندارة التدوير | الورق |
| العابة | Recyclable | والكنت |
| General | Waste | Paper |
| Waste عثمان ورفية | نومج مثنية | روزون كردون كتب |
| بغايا مقعام معامل ورفية أكواب ورفية | Cans, metal, glass, bottle, | Paper, cartons, books |
| Food items, tissues, tea bags | plastic etc | hardboard etc. |

١- فضلاً إلقاء بقايا الطعام والناديل الورقية وأكواب الشاي للستعملة في الخاويات الخصصة للتفايات العامة.

Please throw food items, waste tissues, tea bags etc. inside general waste container.
 المصلة إلغاء علب للشروبات الغارة - الزجاح - للعادن - البلاستيك بإشاويات اقصصة لنفايات إعادة التموير.

2. Please throw cans, glass, metal, plastic bottle, etc. inside recyclable waste container.

٣- فضلاً إلقاء الأوراق - الكرتون - الكتب - الورق اللقوى بالخاويات الخصصة للورق والكرتون .

3. Please throw paper, carton, books, hardboard etc. inside paper waste container.

إنياغ هذه القواعد بشكل سليم فاندة للجميع All of us will be benefited if we follow this rule regularly. شكراً لتعاونكم Thanks for your cooperation.



Brochures posted related to a two awareness programs prepared to encourage student and staff to reduce the use of paper and plastic.