



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

عمادة خدمة المجتمع والتنمية المستدامة
Deanship of Community Service and Sustainable Development



SDG 6.3.1

Wastewater Treatment

2023-2024

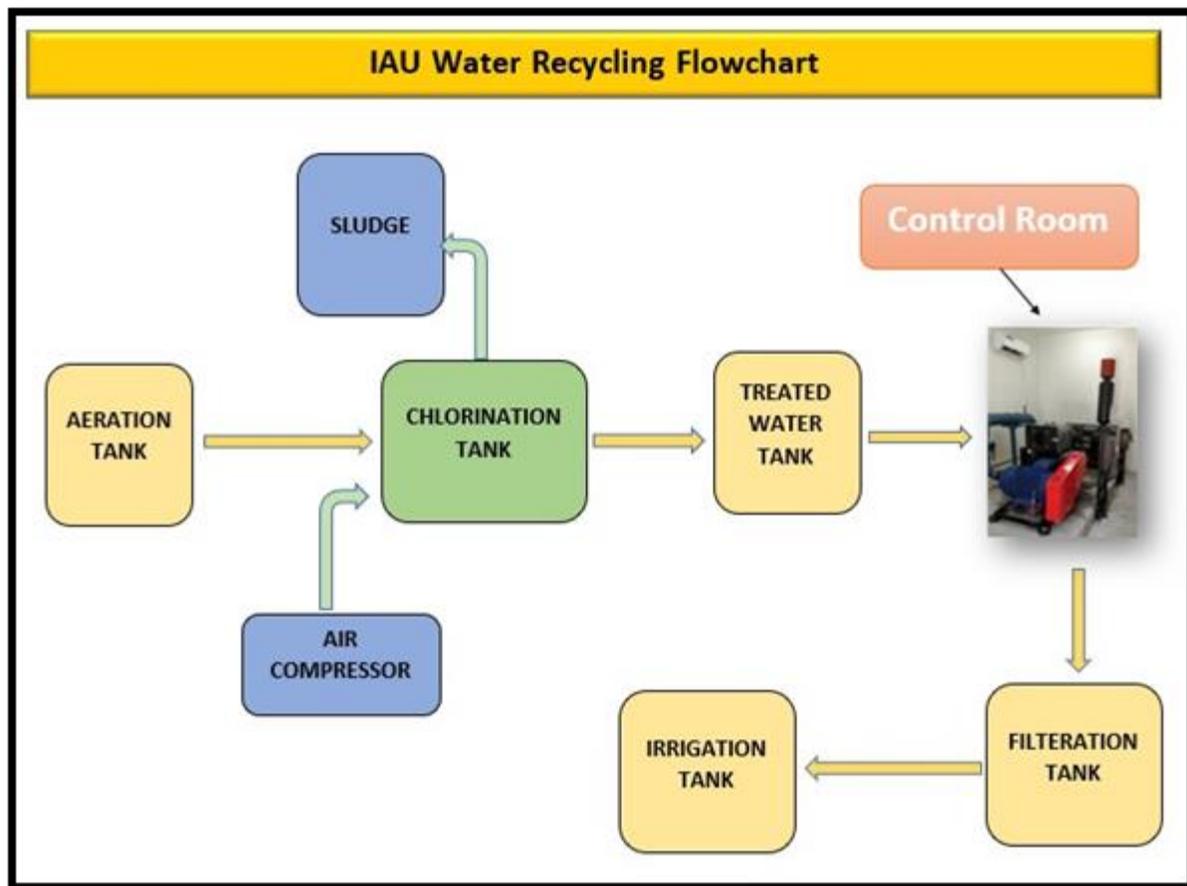
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1. Introduction

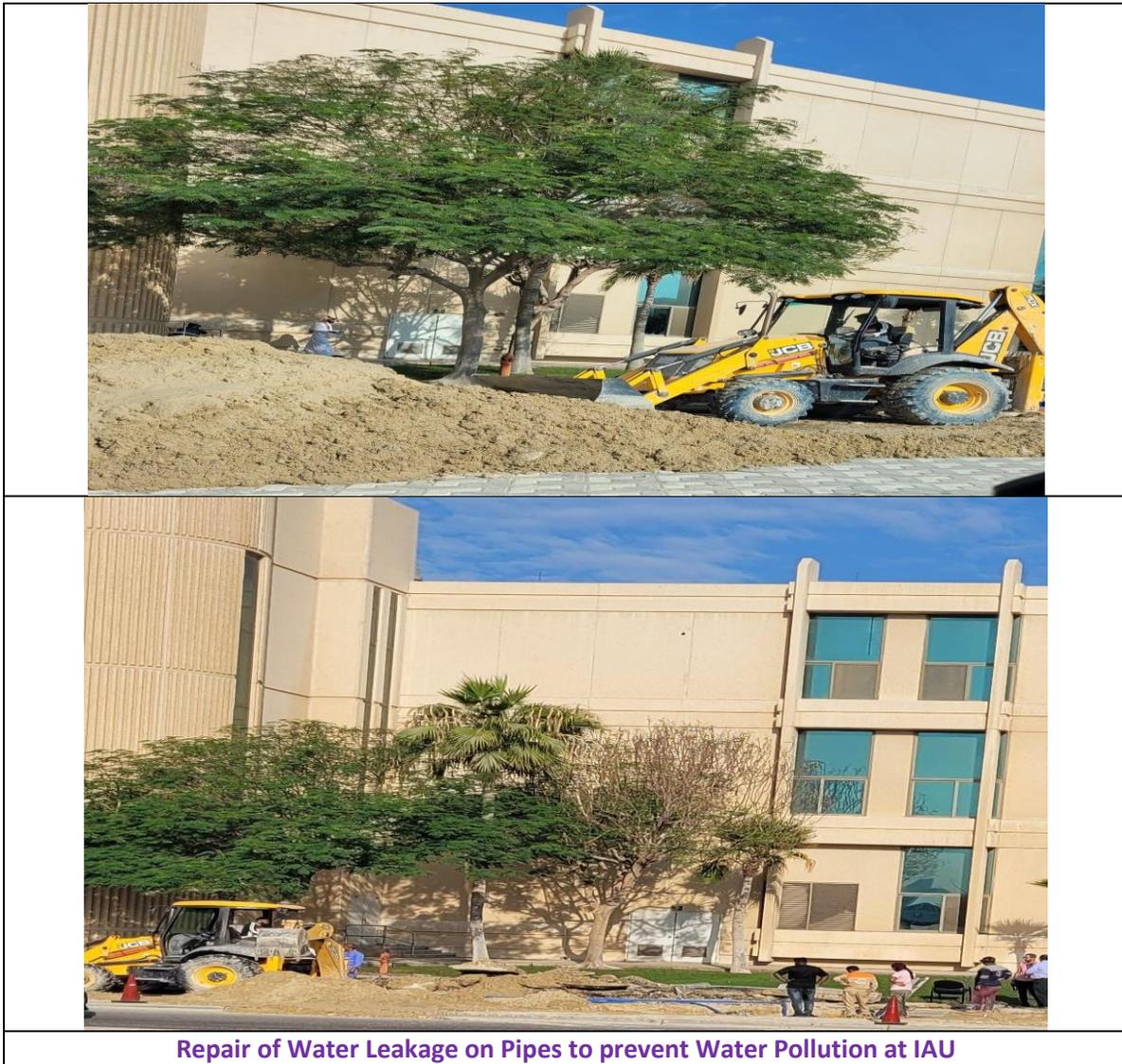
Imam Abdulrahman Bin Faisal University (IAU) has a systematic process in place to treat waste water through the Directorate for the University Campus. This directorate is responsible for creating an integrated ideal environment for both staff and students.

2. Water Recycling Flow Chart



3. Periodic Inspection and Repair of Water Pipes at IAU

Through the Directorate of University Campus, IAU periodically inspects the water pipes and timely responds to the water leakage issues across the campus with enough equipment and workforce to prevent water pollution.





Repair of Water Leakage on Pipes to prevent Water Pollution at IAU



Intensive and Immediate Measures by IAU to prevent Water Pollution from Water leakage



Water Pipes periodically inspected and repaired for any leaks or worn outs



Monitoring Water pipes regularly for preventing leakages and water pollution

4. Implementation of Water Recycling Program at IAU

IAU has well-equipped waste water collection and processing plant. It has various water recycling tanks that convert waste water to treated water.



Brakish water well Reverse osmosis desalination, IAU, KSA



Water recycling at full swing in IAU Campuses





Wastewater collection and processing plant



Waste water treatment plant at IAU

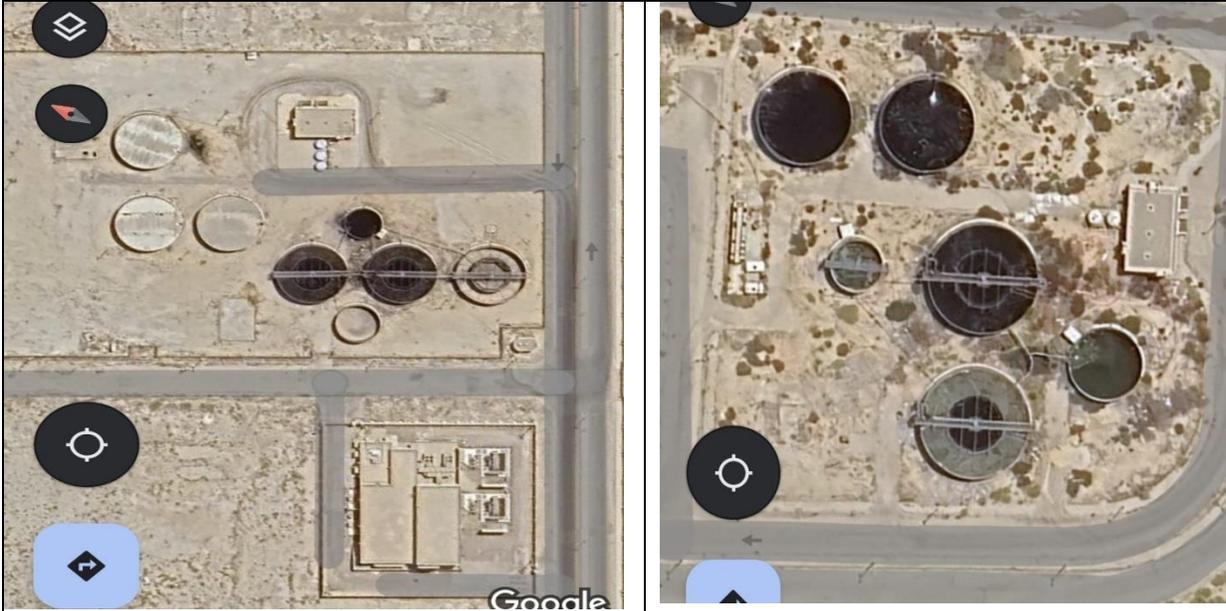


Water Desalination plant at IAU



Water treatment plants

5. Drone Views of Water Recycling Tanks at IAU



On campus biological water treatment plant at IAU

6. IAU Active Involvement in Water Management

The IAU Environmental Engineering Laboratory is a teaching & research facility that affords students pro-active prospects to explore for all kinds of fields comprising of **water treatment, solid waste, wastewater treatment, and air-pollution control**. The IAU comprises of nine laboratories with necessary sufficient space, instrumentation, and other dedicated devices for laboratory courses offered in the undergraduate program: water chemistry, environmental microbiology, physical and chemical processes, and microbiological processes, in addition to the usual analytical equipment and other pilot-scale treatment modules.

Wastewater/Organic Analysis Lab

Equipment/Service

- Gas chromatography coupled with mass spectrometry (GC-MS)
- Ion chromatography
- High-performance liquid chromatography (HPLC)
- Radioactivity Meter
- Solid phase extraction system
- Furnace
- Rotary evaporator
- Automatic titration unit

<https://www.iau.edu.sa/en/colleges/college-of-engineering/labs-and-equipment/environmental-engineering-laboratories>

Laboratory Analysis and Environmental Services offered by IAU

https://www.iau.edu.sa/sites/default/files/resources/price_list_for_env_analyses_-_2017.pdf

Wastewater/Organic Analysis Lab

Supervisors

Dr. Ismail Anil

Email: ianil@iau.edu.sa

Location: College of Engineering, A13 Building

Equipment/Service

- Gas chromatography coupled with mass spectrometry (GC-MS)
- Ion chromatography
- High-performance liquid chromatography (HPLC)
- Radioactivity Meter
- Solid phase extraction system
- Furnace
- Rotary evaporator
- Automatic titration unit

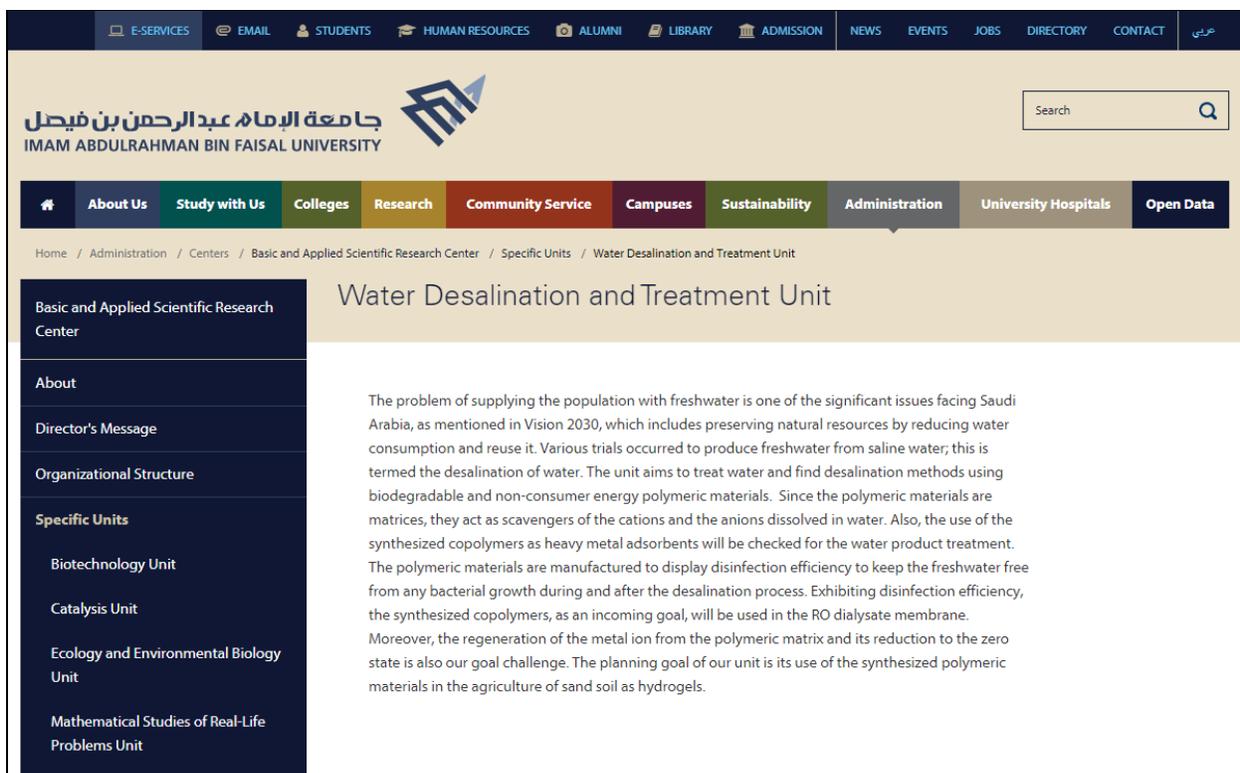
Laboratory Analysis & Environmental Services Price List 

Wastewater / Organic Analysis Lab at IAU

<https://www.iau.edu.sa/en/colleges/college-of-engineering/labs-and-equipment/environmental-engineering-laboratories>

Water Desalination and Treatment Unit

The problem of supplying the population with freshwater is one of the significant issues facing Saudi Arabia, as mentioned in Vision 2030, which includes preserving natural resources by reducing water consumption and reuse it. Various trials occurred to produce freshwater from saline water; this is termed the desalination of water. **The unit aims to treat water and find desalination methods using biodegradable and non-consumer energy polymeric materials.**



The screenshot shows the website for the Water Desalination and Treatment Unit at Imam Abdulrahman Bin Faisal University. The page features a navigation menu with options like 'About Us', 'Study with Us', 'Colleges', 'Research', 'Community Service', 'Campuses', 'Sustainability', 'Administration', 'University Hospitals', and 'Open Data'. The main content area is titled 'Water Desalination and Treatment Unit' and contains a detailed paragraph about the unit's mission and research focus. A sidebar on the left lists various units under the 'Basic and Applied Scientific Research Center'.

Water Desalination and Treatment Unit

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<https://www.iau.edu.sa/en/administration/centers/basic-and-applied-scientific-research-center/specific-units/water-desalination-and-treatment-unit>



Field Visit to the Marine Pollution Control Department at Aramco by IAU Faculty and Students

I had the honor of organizing a field visit to the Marine Pollution Control Department at Aramco - Tanura Opinion. Many thanks to Aramco for allowing the future engineers to have this unique experience and wonderful organization.

<https://twitter.com/Omer2AGA/status/1755169090157637914>



Participation of IAU Engineering College Students in the EnviroSpill Conference and Exhibition at Bahrain

Part of the participation of College of Engineering students of IAU in the conference sessions specialized in combating pollution through the EnviroSpill Conference and Exhibition, which was held in the Kingdom of Bahrain to learn about the latest technologies in combating oil spills under the patronage and attendance of His Excellency the Minister of Oil and Environment in Bahrain.

https://twitter.com/IAU_KSA/status/1582358003483029504



IAU Participation in the Middle East Water Week Conference and Exhibition

The Environmental Engineering section of Faculty of Engineering Imam Abdulrahman Bin Faisal University participated in the Middle East Water Week Conference and Exhibition and presented a number of projects aimed at treating water.

https://twitter.com/CE_IAU_SA/status/1736717131863962024





Visit of the Delegation of the Saline Water Conversion Corporation to IAU

Part of the visit of the delegation of the Saline Water Conversion Corporation to Imam Abdulrahman Bin Faisal University, which included a tour of: 1) Research Center, Faculty of Science, 2) Faculty of Computer Science and Information Technology, 3) Faculty of Engineering
https://twitter.com/IAU_KSA/status/1604581022351368192



جامعة الإمام عبد الرحمن بن فيصل
 IMAM ABDURRAHMAN BIN FAISAL UNIVERSITY
 مركز التعليم المستمر
 Continuing Education Center

Kids | الأكاديمية السعودية للمياه
 SAUDI WATER ACADEMY

برنامج أجيال الصيفي

يسم مركز التعليم المستمر بجامعة الإمام عبد الرحمن بن فيصل وبالتعاون الأكاديمية السعودية للمياه عن إطلاق برنامج أجيال الصيفي

الأنشطة التدريبية

- الرمجة باستخدام روبوت كويو
- قياس الرقم الهيدروجيني في السائل
- تحدي القيادة باستخدام اللجج
- روبوت اسفيرو وملعب كرة القدم
- بطارية الليمون من بأسكو
- الواقع الافتراضي وللعزز
- للانزله الاخضر

التسجيل والتعارفات
موقع التدريب
سعر البرنامج
الفئة المستهدفة
موعد البرنامج

للتسجيل والتعارفات
 للتدريب
 350 ريال
 للأطفال من 7 - 12 سنوات
 14 يوليو 2024
 9:00AM - 12:00PM
 15 ساعة تدريبية

جامعة الإمام عبد الرحمن بن فيصل - مركز التعليم المستمر - 679
 الهيئة السعودية للمياه
 Saudi Water Authority
 SAUDIWACD | WWW.SWACADEMY.COM

IAU in cooperation with the Saudi Water Academy for “Generations Summer Program”

The Continuing Education Center is pleased to #Imam_AbdulRahman_Bin_Faisal_University In cooperation with the Saudi Water Academy. The announcement of the launch of “Generations Summer Program”. The Target group is Children from (7 years to 12 years).

https://twitter.com/IAU_KSA/status/1808112744589070344