



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY



SDG 6.3.2

Preventing Water
System Pollution

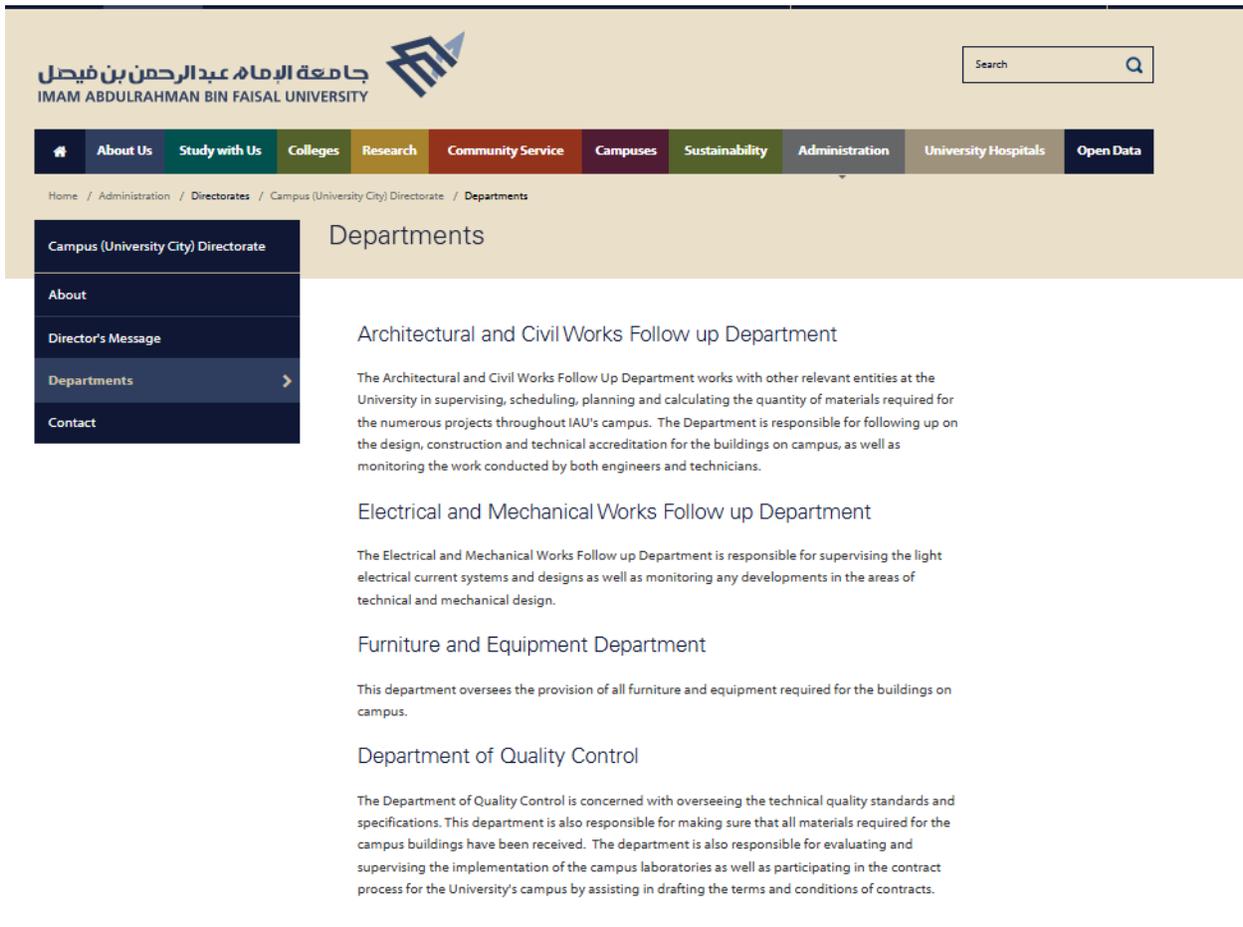
2023-2024

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1. Introduction

IAU has Directorate of University Campus, which is dedicated to create an integrated ideal environment for both staff and students and ensure the quality of the campus environment. It also provides efficient and effective follow up on the progress of work in the campus environment through monitoring architectural, civil, electrical, mechanical, instrumental and equipment domains.



The screenshot shows the website interface for the Imam Abdulrahman Bin Faisal University. The header includes the university's name in Arabic and English, a search bar, and a navigation menu with items like 'About Us', 'Study with Us', 'Colleges', 'Research', 'Community Service', 'Campuses', 'Sustainability', 'Administration', 'University Hospitals', and 'Open Data'. The breadcrumb trail indicates the current location: 'Home / Administration / Directorates / Campus (University City) Directorate / Departments'. A sidebar menu on the left lists 'Campus (University City) Directorate', 'About', 'Director's Message', 'Departments', and 'Contact'. The main content area is titled 'Departments' and lists four departments with brief descriptions:

- Architectural and Civil Works Follow up Department**: The Architectural and Civil Works Follow Up Department works with other relevant entities at the University in supervising, scheduling, planning and calculating the quantity of materials required for the numerous projects throughout IAU's campus. The Department is responsible for following up on the design, construction and technical accreditation for the buildings on campus, as well as monitoring the work conducted by both engineers and technicians.
- Electrical and Mechanical Works Follow up Department**: The Electrical and Mechanical Works Follow up Department is responsible for supervising the light electrical current systems and designs as well as monitoring any developments in the areas of technical and mechanical design.
- Furniture and Equipment Department**: This department oversees the provision of all furniture and equipment required for the buildings on campus.
- Department of Quality Control**: The Department of Quality Control is concerned with overseeing the technical quality standards and specifications. This department is also responsible for making sure that all materials required for the campus buildings have been received. The department is also responsible for evaluating and supervising the implementation of the campus laboratories as well as participating in the contract process for the University's campus by assisting in drafting the terms and conditions of contracts.

2. 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

3. Water Treatment Plants at IAU



Water treatment plants at IAU play a crucial role in preventing the polluted water entering the water systems and periodically inspected and fixed for any mishaps to ensure clean drinking water is produced and distributed in the entire IAU campus.

4. IAU Active Involvement in Water Management

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>

5. Water Desalination and Treatment Unit

E-SERVICES EMAIL STUDENTS HUMAN RESOURCES ALUMNI LIBRARY ADMISSION NEWS EVENTS JOBS DIRECTORY CONTACT عربي



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IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

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Home Administration Centers Basic and Applied Scientific Research Center Specific Units Water Desalination and Treatment Unit

Basic and Applied Scientific Research Center

About

Director's Message

Organizational Structure

Specific Units

Biotechnology Unit

Catalysis Unit

Ecology and Environmental Biology Unit

Mathematical Studies of Real-Life Problems Unit

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. Since the polymeric materials are matrices, they act as scavengers of the cations and the anions dissolved in water. Also, the use of the synthesized copolymers as heavy metal adsorbents will be checked for the water product treatment. The polymeric materials are manufactured to display disinfection efficiency to keep the freshwater free from any bacterial growth during and after the desalination process. Exhibiting disinfection efficiency, the synthesized copolymers, as an incoming goal, will be used in the RO dialysate membrane. Moreover, the regeneration of the metal ion from the polymeric matrix and its reduction to the zero state is also our goal challenge. The planning goal of our unit is its use of the synthesized polymeric materials in the agriculture of sand soil as hydrogels.

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>

6. Field Visit for IAU Faculty and Students to the Marine Pollution Control Department at Aramco



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>

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



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

8. IAU in Middle East Water Week Conference and Exhibition

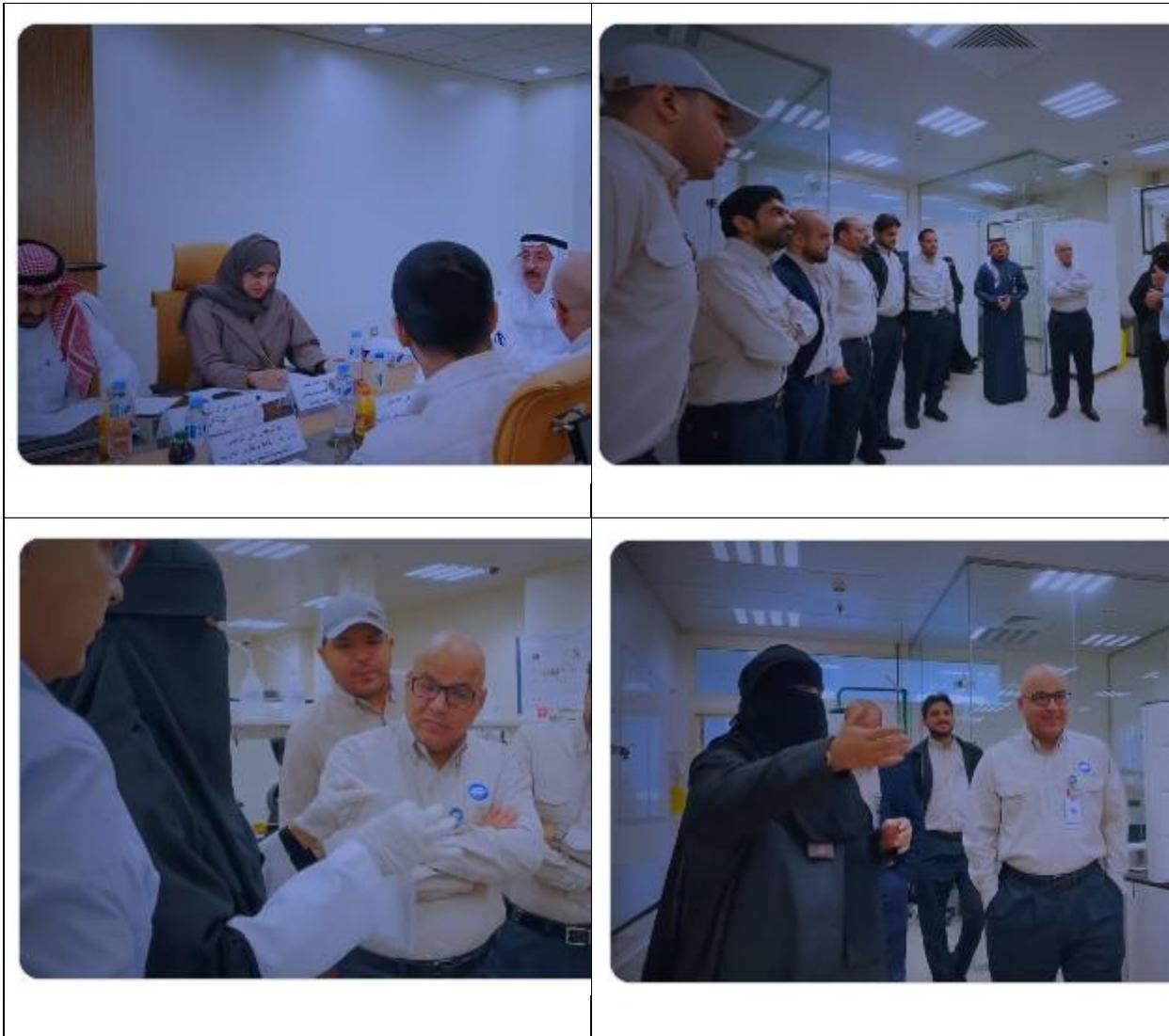


IAU Participation in the Middle East Water Week Conference and Exhibition

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

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





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

10. Summer Program for Children in cooperation with Saudi Water Academy



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

Kids | الأكاديمية السعودية للمياه
 SAUDI WATER ACADEMY

برنامج أجيال الصيفي

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

الأنشطة التدريبية

- الرمجة باستخدام روبوت كويكو
- قياس الرقم الهيدروجيني في السائل
- تحدي القيادة باستخدام الليجو
- روبوت اسفيرو وملعب كرة القدم
- بطارية الليمون من باسكو
- الواقع الافتراضي وللعزز
- اللايغزل الاخضر

التسجيل والاطروحات
 موقع التدريب
 جامعة الإمام عبد الرحمن بن فيصل - مركز التعليم المستمر - 879

سعر البرنامج
 ريال 350
 للائحة محدودة

الفئة المستهدفة
 الأطفال من سنوف 7 - 12

موعد البرنامج
 14 يوليو 2024
 9:00AM - 12:00PM
 15 ساعة تدريبية

الهيئة السعودية للمياه
 Saudi Water Authority

SAUDIWACD | WWW.SWACADEMY.COM

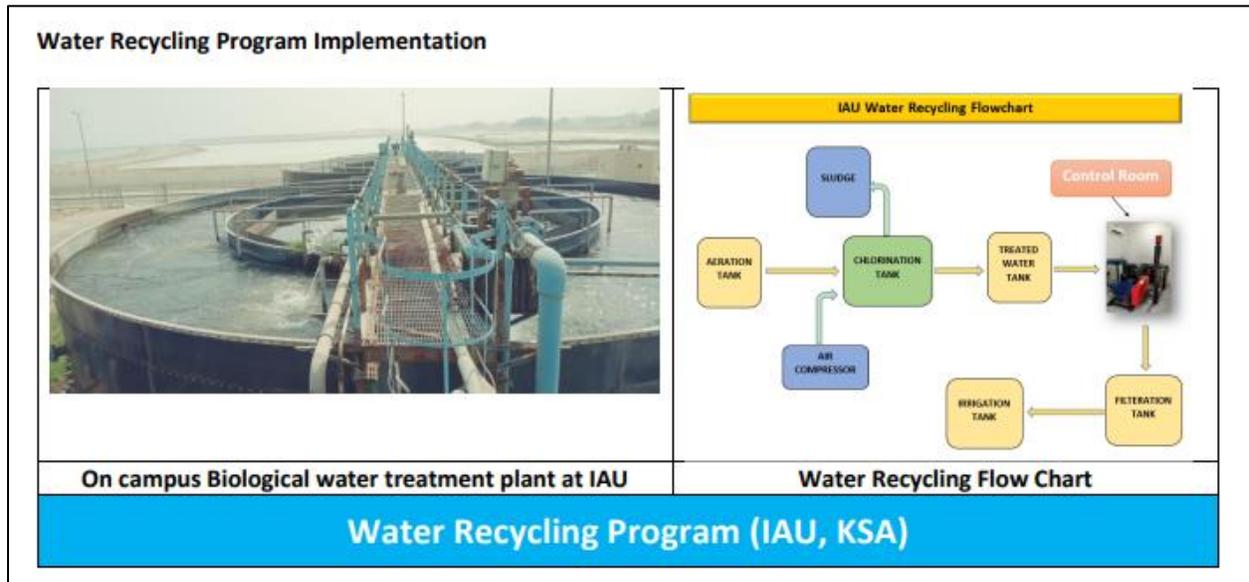
IAU in cooperation with the Saudi Water Academy for “Generations Summer Program”

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

11. Water Recycling Program Implementation at IAU

The Water recycling program has been implemented in IAU. The details of Water recycling at IAU are explained in the given PDF link. This link explains the water recycling tanks, water treatment plants, water consumption, water desalination plants, water conversation facility and storage of recycled water, available at IAU.



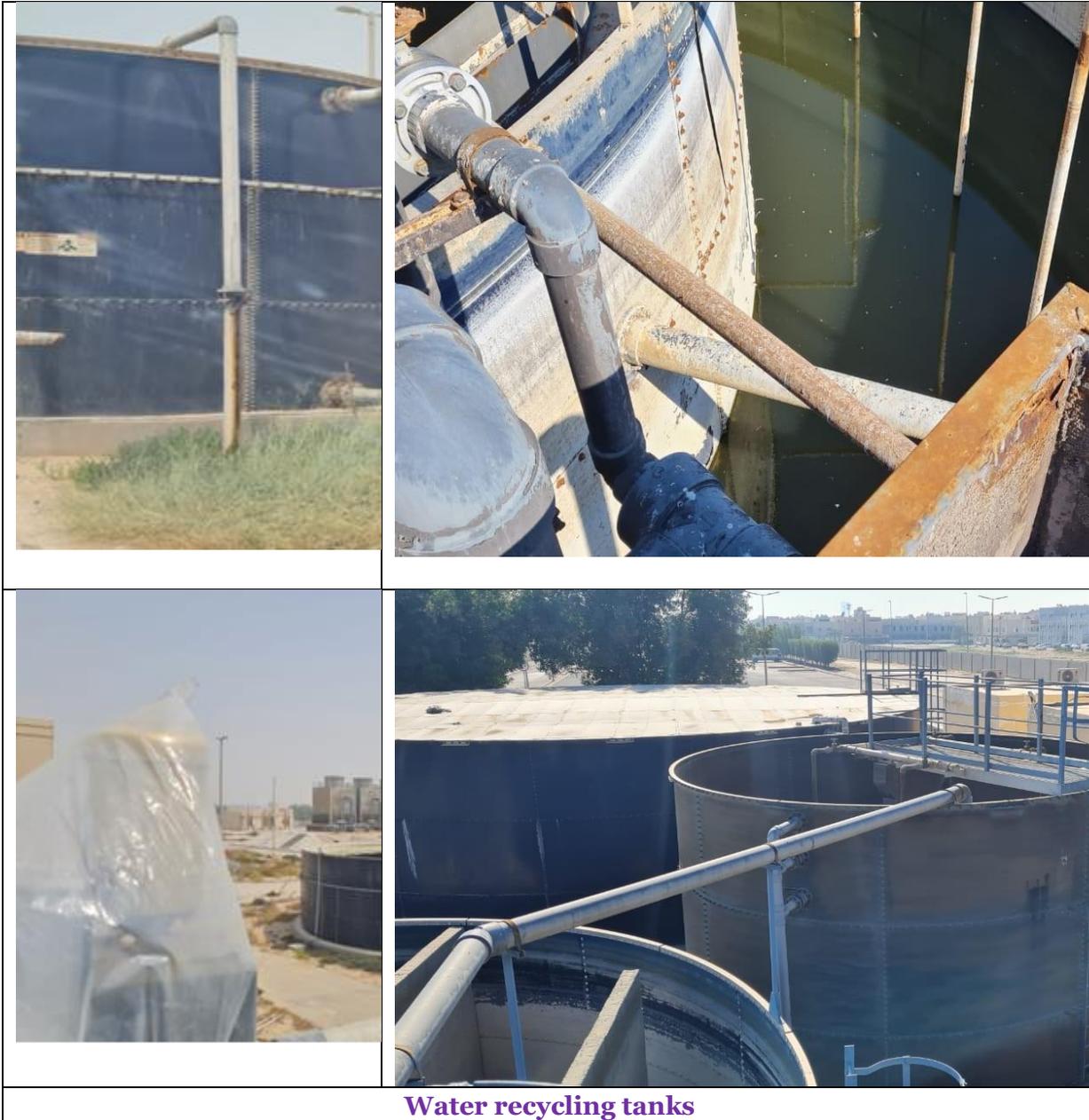
https://www.iau.edu.sa/sites/default/files/resources/water_recycling_program_1.pdf



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

