

Promoting Conscious
Water Usage on Campus
2023-2024

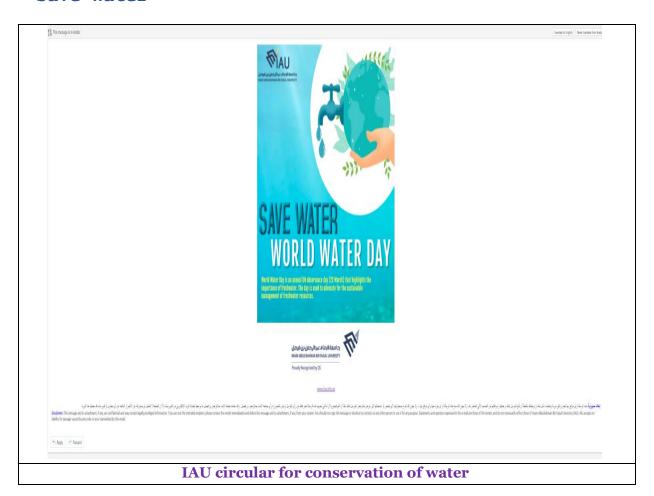


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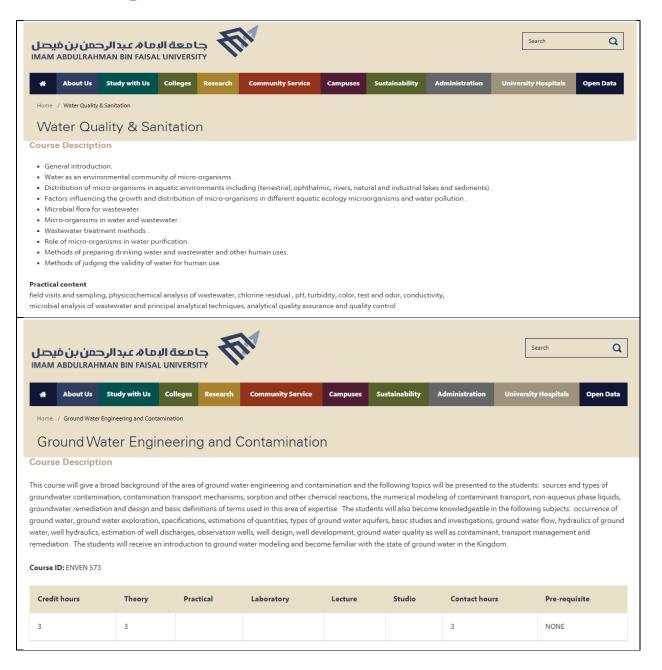


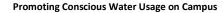
# 1. Creating Awareness among IAU Staff and Students to save Water



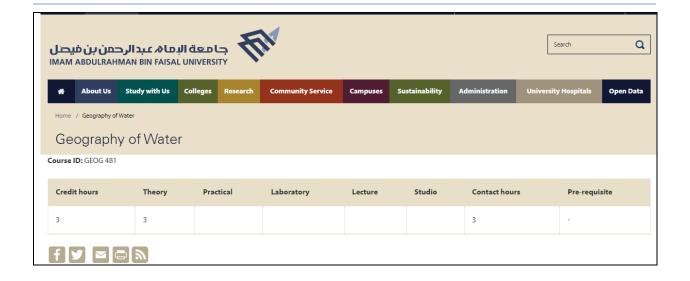


# 2. IAU offered Water related courses to Student Community









## Hydrogeography

#### **Course Main Objective**

Learn about how water exists in nature and its importance in dry environments through learning about its limited resources and problems a matter which helps form positive trends towards these problems and reduce water loss; realize role played by the Kingdom to develop the available resources and provide other unconventional resources.

## **Course Learning Outcomes**

- 1. Knowledge and Comprehension
- 1.1 Identify the relation between hydrogeography and other sciences and the hydrologic cycle and the various resources of water and how to preserve.
- 2. Skills
- 2.1 Prove their knowledge of the human factors affecting water use and how to preserve it.
- 2.2 Use computer technology, the statistical programs to perform some group and individual works.
- 3. Value
- 3.1 Appreciate teamwork and community responsibility.

## **Course Content:**

- First topic: an introduction to geography of water resources- amount of water and the hydrologic cycle.
- Second topic: precipitation (types, analysis, distribution).
- Third topic: full management of water under the sustainable development.
- Fourth topic: water in the Arab world in general and the international water conflicts.
- Fifth topic: water resources in Kingdom of Saudi Arabia.

#### Textbook (s)

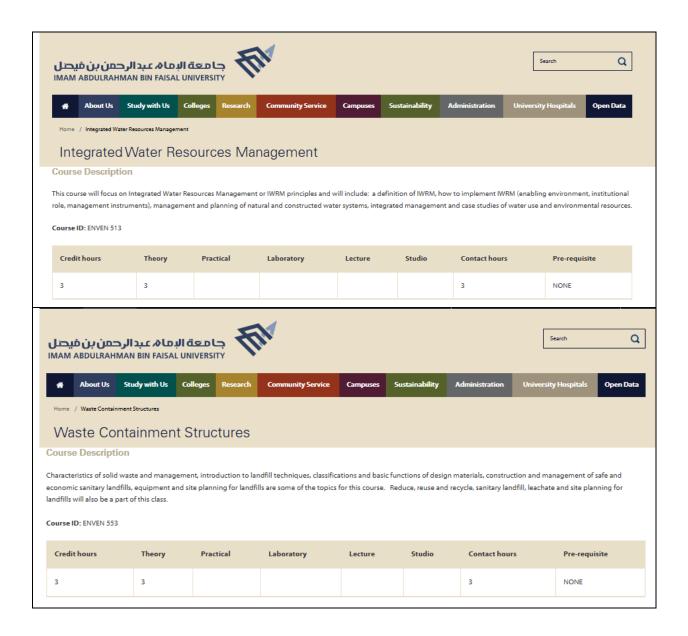
- Al-Zouka, Muhammad.Kh. (2015). Hydrogeography. Dar Almarefa, Alexandria.
- $Jouda, Fathy. A.~(2005). \ Geography \ of \ Water \ Resources: A \ Contemporary \ Study \ in \ Basics \ and \ Application. \ 1 sted. \ Saudi \ House \ for \ Publishing, \ Riyadh.$

## Course ID: GEOG 451

Credit hours	Theory	Practical	Laboratory	Lecture	Studio	Contact hours	Pre-requisite
2	2					2	-

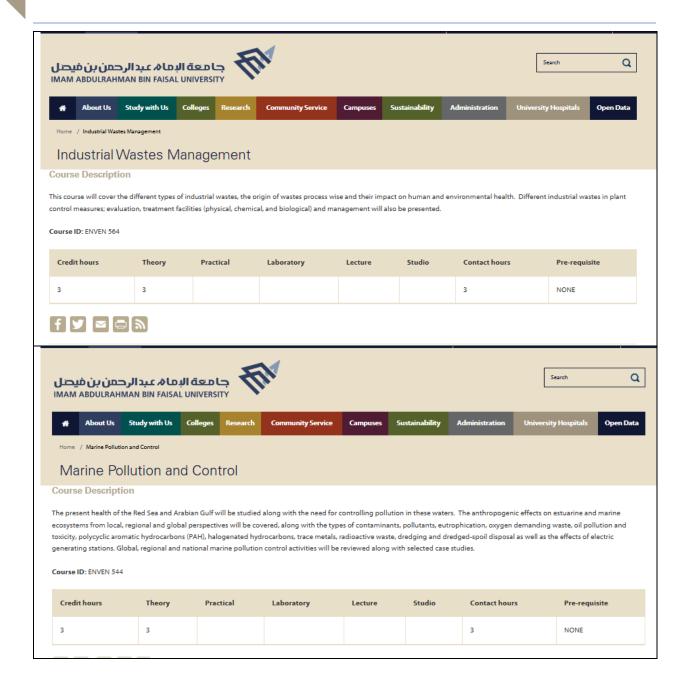
## **Promoting Conscious Water Usage on Campus**





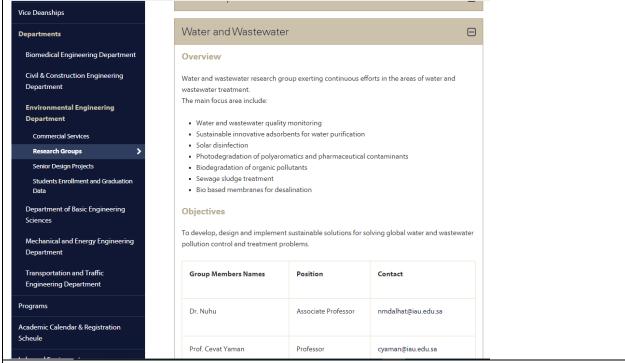
## **Promoting Conscious Water Usage on Campus**







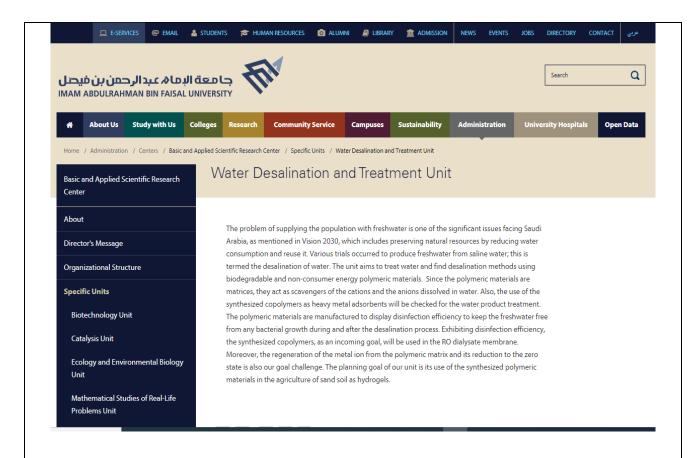
## 3. Research Groups of IAU for Water and Wastewater



https://www.iau.edu.sa/en/colleges/college-of-engineering/departments/environmental-engineering-department/research-groups



## 4. Water Desalination and Treatment Unit of IAU



## **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.

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



