

جامعة الرمام عبد الرحمن بن فيصل IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY عمادة خدمة المجتمع والتنمية المستدامة Dearship of Community Service and Sustainable Development

> SDG 6.5.5 Promoting Conscious Water Usage on Campus 2023-2024





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SDG 6.5.5

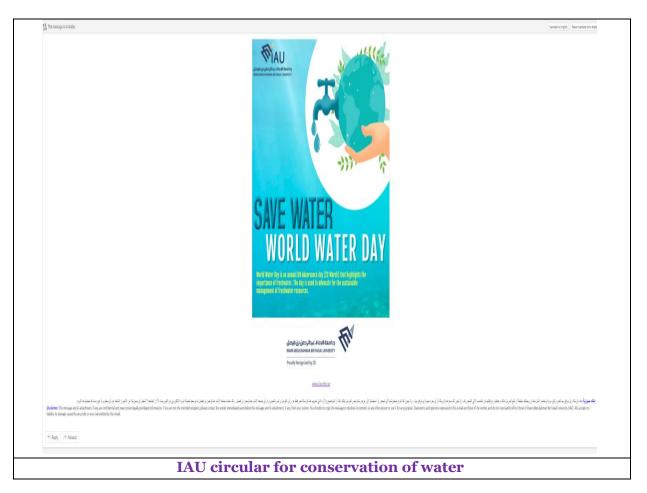
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1. Introduction

IAU is actively promoting conscious water usage on campus. It creates awareness among staff and students. It also offers knowledge on water to the student community.

2. Creating Awareness among IAU Staff and Students to save Water





3. IAU offered Water related courses to Student Community

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Home / Water Quality & Sani	tation							
Water Qualit	y & Sanita	ation						
Course Description								
 Factors influencing the Microbial flora for was Micro-organisms in wa Wastewater treatment Role of micro-organisr Methods of preparing Methods of judging th Practical content	organisms in aquati e growth and distrik tewater. ater and wastewate : methods . ns in water purifica drinking water and le validity of water f	c environments inclu bution of micro-orgai r . tion. I wastewater and oth for human use.		ecology microorg	anisms and water	pollution .		
field visits and sampling, ph microbial analysis of waste		·		-		ity,		
Home / Ground Water Engin	udy with Us Col	IVERSITY leges Research	community Service Contamination		Sustainability	Administration	Search University Hospitals	Q Open Data
Course Description								
This course will give a broa groundwater contaminatio groundwater remediation a ground water, ground water water, well hydraulics, estir remediation. The students Course ID: ENVEN 573	on, contamination to and design and bas er exploration, spec mation of well disch	ransport mechanism sic definitions of term tifications, estimation narges, observation v	s, sorption and other cher is used in this area of expe is of quantities, types of g vells, well design, well dev	nical reactions, th ertise. The studen round water aqui relopment, groun	e numerical mode ts will also becom fers, basic studies a d water quality as	ling of contaminan e knowledgeable ir and investigations, well as contaminan	t transport, non-aqueou the following subjects: ground water flow, hyd t, transport managemen	is phase liquids, occurrence of raulics of ground
Credit hours	Theory	Practical	Laboratory	Lecture	Studio	Contact hour	s Pre-req	uisite
3	3					3	NONE	

Promoting Conscious Water Usage on Campus



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🖀 About Us	Study with Us	Colleges Research	Community Service	Campuses	Sustainability	Administration	University Hospitals	Open Data
Home / Geography o	fWater							
Geograph	y of Wate	r						
Course ID: GEOG 481								
Credit hours	Theory	Practical	Laboratory	Lecture	Studio	Contact hour	s Pre-requi	site
3	3					3	-	
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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. Values
- 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. 1sted. Saudi House for Publishing, Riyadh.

Course ID: GEOG 451

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



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Home / Integrated Wat	er Resources Managemen	ıt					
Integrated	Water Res	sources M	lanagement				
Course Description	on						
	ruments), manageme	-					abling environment, institutional use and environmental resources.
Credit hours	Theory	Practical	Laboratory	Lecture	Studio	Contact hours	Pre-requisite
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Home / Industrial Wast	tes Management								
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Course Descripti	ion								
				in of wastes process wi and biological) and ma			environmental healtl	h. Different industrial wastes in pla	nt
Course ID: ENVEN 564	ł								
Credit hours	Theory	Practical	1	Laboratory	Lecture	Studio	Contact hours	Pre-requisite	
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4. Research Groups of IAU for Water and Wastewater

Overview

Water and wastewater research group exerting continuous efforts in the areas of water and wastewater treatment.

The main focus area include:

- Water and wastewater quality monitoring
- Sustainable innovative adsorbents for water purification
- Solar disinfection
- Photodegradation of polyaromatics and pharmaceutical contaminants
- Biodegradation of organic pollutants
- Sewage sludge treatment
- Bio based membranes for desalination

Objectives

To develop, design and implement sustainable solutions for solving global water and wastewater pollution control and treatment problems.



Vice Dearships Departments Biomedical Engineering Department Civil & Construction Engineering Department Environmental Engineering Department Commercial Services Sector Design Projects Students Frontienet and Graduation Deta Department Department Students Frontienet and Graduation Deta Department Transportation and Traffic Engineering Department Programs Academic Calendar & Registration Scheule Programs Academic Calendar & Registration Scheule Prof. Cevet Yaman Prof. Cevet Yaman Professor Cyaman@iau.edu.sa/en/collegees/collegee-of-engineering/departments/engineering/departments/research-groups		/			-
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Givit & Construction Engineering Department Water and wastewater research group exerting continuous efforts in the areas of water and wastewater treatment. The main focus area include: Environmental Engineering Department • Commercial Services • Research Groups • Senior Design Projects • Students Enrollment and Graduation Deta • Department • Objectives • Mechanical and Energy Engineering Department • Transportation and Traffic Engineering Department To develop, design and implement sustainable solutions for solving global water and wastewater pollution control and treatment problems. Group Members Names Position Contact Programs Dr. Nuhu Associate Professor nmdalhat@iau.edu.sa Academic Celendar & Registration Scheule Prof. Cevat Yaman Professor cyaman@iau.edu.sa Https://www.iau.edu.sa/en/colleges/college-of-engineering/departments/cen Professor cyaman@iau.edu.sa	Departments	Water and Wastewate	er		
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Department of Basic Engineering Sciences Objectives Mechanical and Energy Engineering Department To develop, design and implement sustainable solutions for solving global water and wastewater pollution control and treatment problems. Transportation and Traffic Engineering Department Group Members Names Position Contact Programs Dr. Nuhu Associate Professor nmdalhat@iau.edu.sa Prof. Cevat Yaman Professor cyaman@iau.edu.sa https://www.iau.edu.sa/en/colleges/college-of-engineering/departments/envelocedu.sa			salination		
Engineering Department Programs Programs Dr. Nuhu Academic Calendar & Registration Dr. Nuhu Scheule Prof. Cevat Yaman Prof. Scheule Prof. Cevat Yaman https://www.iau.edu.sa/en/colleges/college-of-engineering/departments/env	Department of Basic Engineering Sciences Mechanical and Energy Engineering	To develop, design and implement		olving global water and wastewa	ter
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https://www.iau.edu.sa/en/colleges/college-of-engineering/departments/envengineering-department/research-groups		Prof. Cevat Yaman	Professor	cyaman@iau.edu.sa	
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5. 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.**

About Us Study with Us Colle	eges Research Community Service	Campuses Sustainability	Administration	University Hospitals	Open Data
Home / Administration / Centers / Basic and App	lied Scientific Research Center / Specific Units / W	Vater Desalination and Treatment Unit			
Basic and Applied Scientific Research Center	Water Desalination a	and Treatment Uni	t		
About	The problem of supplying the popul		-i:6 (an Caudi	
Director's Message	Arabia, as mentioned in Vision 2030,	, which includes preserving natural	resources by reducin	ig water	
Organizational Structure	consumption and reuse it. Various tri termed the desalination of water. Th	e unit aims to treat water and find	desalination method	s using	
Specific Units	biodegradable and non-consumer ei matrices, they act as scavengers of th	he cations and the anions dissolved	l in water. Also, the us	se of the	
Biotechnology Unit	synthesized copolymers as heavy me The polymeric materials are manufac	ctured to display disinfection efficie	ency to keep the fresh	nwater free	
Catalysis Unit	from any bacterial growth during an the synthesized copolymers, as an in	ncoming goal, will be used in the R) dialysate membrane	e.	
Ecology and Environmental Biology Unit	Moreover, the regeneration of the m state is also our goal challenge. The p materials in the agriculture of sand s	planning goal of our unit is its use o			
Mathematical Studies of Real-Life					

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



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