University : Al-Mustaqbal University (formerly name: Al-Mustaqbal University College)

Country : Iraq

Web Address : https://uomus.edu.iq/Home/IndexEn

6.5.1: Water management educational opportunities Year: 2025: Provide educational opportunities for local communities to learn about good water management.

Link to the public evidence:
https://sustainability.uomus.edu.iq/SDG_Hub/Goals/6

1- The 2nd Al-Mustaqbal Forum for Water Sustainability

Link: https://uomus.edu.iq/College/Details/80868

The university organized the 2nd Al-Mustaqbal Forum for Water Sustainability to mark World Water Day.

The forum included:

- Emphasizing the importance of protecting water resources from pollution and promoting the rational use of water.

- Showcasing the university's initiatives in support of Sustainable Development **Goal 6** (SDG 6), which focuses on clean water and sanitation.

- Hosting panel discussions on the strategic management of water in Iraq, challenges related to water distribution, and the role of groundwater in supporting agricultural investment.

- The participation of a distinguished group of experts and academics from the Ministry of Water Resources and the Directorate of Water Resources in Babylon.

The forum was organized in partnership between the Department of Construction Engineering and the Department of Chemical Engineering and Petroleum Industries, reflecting Al-Mustaqbal University's commitment to fostering environmental awareness, supporting sustainable development, and serving the community.



2- 1st International Conference on Computational Intelligence Approaches and Applications (ICCIAA 2025)

Al-Mustaqbal University supported and participated in the **1st International Conference on Computational Intelligence Approaches and Applications (ICCIAA 2025)**, held at the University of Petra – Jordan (April 28–30, 2025).

The conference was **international and multidisciplinary**, bringing together experts to discuss cutting-edge applications of artificial intelligence. Participation in ICCIAA 2025 demonstrates Al-Mustaqbal University's commitment to: A) International research partnerships. B) Advancing AI applications in water sustainability. And C) Supporting efforts to solve water-related challenges

Focus on Water (SDG 6)

A key theme of the conference was the use of **AI to address water challenges**, including:

- Smart monitoring of water quality
- Improved water-resource management
- Supporting solutions to water scarcity

This aligns with Al-Mustaqbal University's interest in applying technology to support **clean water and sanitation**.

A distinguished paper from **Dr. Tariq Jawad Al-Musawi (Water Resources Management)** earned **Author Recognition**

for the research titled: **“Smart Sensing of Water Quality: A Satellite-Driven Machine Learning Approach to COD Assessment.”**
The study presents an innovative AI-based method for evaluating water quality using satellite data.









3- Al-Mustaqbal University Launches "Water Conservation Week" to Promote Sustainability and Address Climate Change

Link: https://uomus.edu.iq/College/Details/99420

Under the patronage of the President of Al-Mustaqbal University, Prof. Dr. Hassan Shakir Majdi, the university's Sustainable Development Division organized the "Future Water Conservation Week" forum. The event aimed to raise environmental awareness and foster a culture of water conservation considering current water-related challenges and climate change.
The forum covered the following key topics:

- **Water Challenges in Iraq**: An overview of the state of water resources in Babylon Governorate and Iraq, including a discussion on the impacts of climate change and water scarcity, featuring the Director of the Water Resources Directorate in Babylon.

- **The University's Water Conservation Policy**: Engineer Khalid Kadhim Al-Salhi, Director of the Sustainable Development Division, presented the university's initiatives, such as the use of smart sensors to monitor consumption, the reuse of greywater for irrigating green spaces, and the implementation of modern irrigation techniques.

- **Awareness and Scientific Research**: An emphasis on the vital role of universities in providing scientific solutions, integrating sustainability concepts into education and research, and executing community-based initiatives for water conservation.

This forum underscores Al-Mustaqbal University's commitment to supporting the Sustainable Development Goals (SDGs) and fulfilling its social responsibility to protect water resources, ensuring their sustainability for future generations.



4- Al-Mustaqbal University Hosts Forum on Combating Desertification and Drought with UN, Government, and Academic Participation

Link: https://uomus.edu.iq/College/Details/89128

Under the President of Al-Mustaqbal University, **Prof. Dr. Hassan Shaker Majdi**, the university's Sustainable Development Division organized the "Al-Mustaqbal Forum on Combating Desertification and Drought." Held in observance of the World Day to Combat Desertification and Drought, the event aimed to raise environmental awareness and support efforts toward achieving the Sustainable Development Goals (SDGs).

The forum covered the following key themes:

- **The Role of Universities in Sustainability**: Prof. Dr. Muzaffar Sadiq Al-Zuhairi, Director of Scientific and Academic Supervision, highlighted the university's commitment to promoting sustainability through education, scientific research, and community service.

- **International Partnerships**: A representative from the Food and Agriculture Organization of the United Nations (FAO) discussed the importance of supporting rural communities and strengthening the role of universities in addressing desertification and drought.

- **Local Initiatives:** The Deputy Governor of Babylon for Planning Affairs outlined the governorate's efforts under the "Green Babylon" project, while the Director of the Babylon Environment Department addressed key challenges and strategies related to combating desertification.

- **Institutional Sustainability**: Engineer Khalid Kadhim Al-Salhi, Director of the Sustainable Development Division, emphasized that such events are part of the university's broader strategy to embed a culture of sustainability and translate it into practical, actionable measures.

The forum brought together representatives from international organizations, government bodies, environmental and agricultural agencies, as well as university leadership and a distinguished group of academics and researchers.





5- Al-Mustaqbal University Participates in an International Scientific Symposium on Water Management and Climate Change

Link: https://uomus.edu.iq/College/Details/100398

Under the patronage of the President of Al-Mustaqbal University, **Prof. Dr. Hassan Shaker Majeed**, and under the supervision of **Prof. Dr. Muzaffar Sadiq Al-Zuhairi**, the university participated in an international scientific symposium titled "**Water Management Amidst Climate Change: Engineering and Agricultural Solutions for a Sustainable Water Future**." The event took place on Monday, December 29, 2025, via the Google Meet platform, in collaboration with Mansoura University in the Arab Republic of Egypt.

Key themes of the symposium included:

- Discussing the challenges of water resource management and the impact of climate change on water security.
- Exploring sustainable engineering and agricultural solutions for water conservation.
- Exchanging scientific and academic expertise among researchers and specialists from both universities.
- Strengthening international cooperation in the fields of water and sustainability.

Relevant Sustainable Development Goals (SDGs):

- Goal 6: Clean Water and Sanitation.
- Goal 17: Partnerships for the Goals.

This participation is part of Al-Mustaqbal University's ongoing efforts to foster international academic collaboration, support scientific research, and develop sustainable solutions for environmental and water-related challenges.


The Quandary of
Emerging Pollutants
in Water
Prof. Mohamed Gar Alam
Professor of Civil & Environmental Engineering
Mansoura University
Dr Amr Gabr
Mohamed Gar
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Emerging
Pollutants
Emerging pollutants (EPs) are compounds of diverse origin and chemical nature that are present in the environment. Since they were not considered in the past, they are called EMERGING POLLUTANTS
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