




SDG 6.5.1

University : Al Balqa Applied University
Country : Jordan
Web Address : bau.edu.jo

[6.5.1] Water management educational opportunities – BAU




Academic Impact


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UNAI SDG Hub 4





United Nations
Academic Impact

SUSTAINABLE DEVELOPMENT GOALS

4 QUALITY EDUCATION

2 of 2
Campus of SRM Institute of Science and Technology (Photo courtesy of SRM Institute of Science and Technology)

[AL-Balqa Applied University AS UNAI SDG Hub 4 Chair | United Nations](#)



Al-Balqa Applied University
Faculty of Graduate Studies
Dept. Water Resources &
Environmental Management



تأسست سنة 1997

جامعة البلقاء التطبيقية
كلية الدراسات العليا
قسم إدارة موارد المياه والبيئة

COURSES DESCRIPTION

(Thesis Track)

Course No.	Course Description	Credit Hours
504009721	Unit process operation of water treatment Physiochemical and transformation processes in natural and engineered environmental systems. Process modeling and design of operations involving state and phase transformation. Chemical oxidation, reduction, sorption, stripping, and exchange processes. Membrane separations, particle aggregation, and coagulation. Sedimentation and filtration. Text Book: Davis, M.L. 2010. Water and Wastewater Engineering: Design Principles and Practice. McGraw-Hill Education, USA. Recommended References: Stensel, H.D., Burton, F.L., Tchobanoglous, G., Metcalf and Eddy 2003, Wastewater engineering: treatment and reuse, McGraw-Hill, Boston.	3(2-3)
504009722	Water pollution control Physical, chemical, biological, and hydrological characteristics of surface water system in junction to water quality management issues. Reaction kinetics and material balances in modeling contaminant movement in the environment. Water quality problem domains in stream and river systems, lake and reservoir systems. Text Book: Alley, E.R. 2007. Water quality control handbook. 2 nd Edition. McGraw-Hill, NY, USA. Recommended References: - Helmer, R. and I. Hespanhol. 1997. Water Pollution Control: A Guide to the Use of Water Quality Management Principles. 1 st Edition. CRC Press, USA. - Nesaratnam, S.T. 2014. Water pollution control. The Open University, UK.	3(3-0)

Master's in Water and Environmental Resources Management



جامعة البلقاء التطبيقية

الخطة الدراسية لدرجة البكالوريوس في تخصص إدارة موارد المياه والبيئة

تتكون الخطة الدراسية لدرجة البكالوريوس في تخصص (إدارة موارد المياه والبيئة) من (135) ساعة معتمدة موزعة على النحو الآتي:-

الرقم	المتطلبات	عدد الساعات المعتمدة
أولاً:	متطلبات الجامعة وتشمل : متطلبات الجامعة الإلزامية متطلبات الجامعة الاختيارية	27 21 6
ثانياً:	متطلبات الكلية	22
ثالثاً:	متطلبات التخصص وتشمل: متطلبات التخصص الإلزامية متطلبات التخصص الاختيارية	76 70 6
رابعاً:	متطلبات التخصص المساندة	10
المجموع		135

Bachelor's in Water Resources and Environmental Management



Al-Balqa Applied University



جامعة البلقاء التطبيقية

تأسست عام 1997

الخطة الدراسية لمرحلة "الدرجة الجامعية المتوسطة"

في

تخصص معالجة المياه

(برنامج الدراسات الثنائية المتكاملة في العمل)

Associated Diploma Degree in Water Treatment



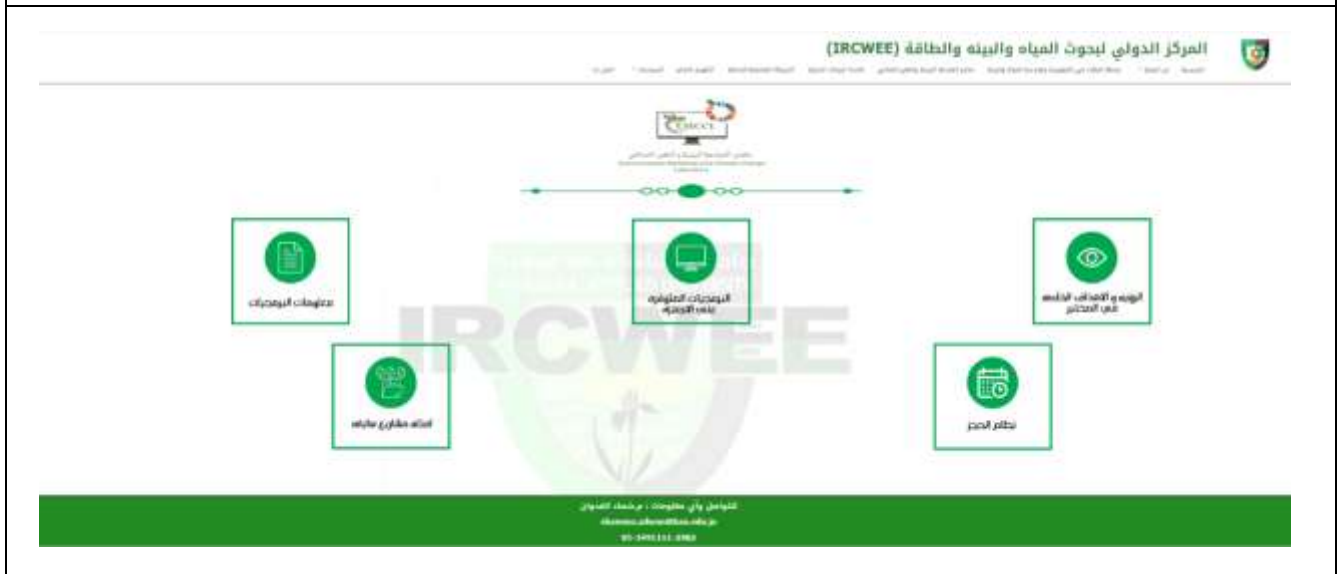
المركز الدولي لبحوث المياه والبيئة والطاقة

International Research Center for
Water, Environment & Energy

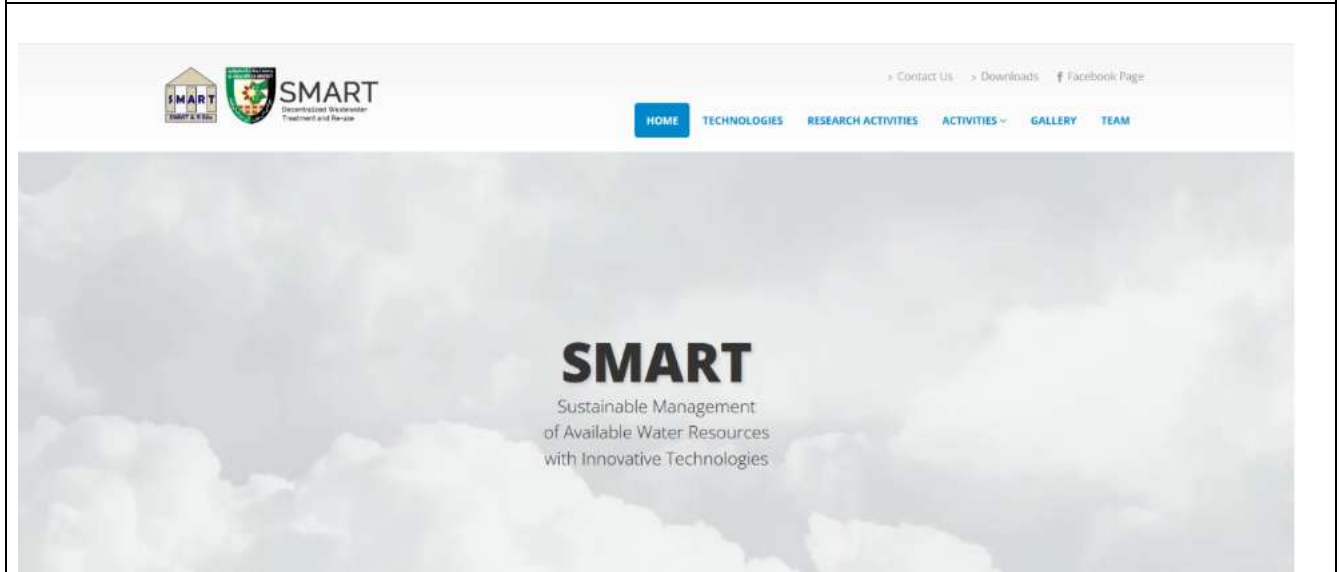
[BAU's International Centre for Water, Environment, and Energy \(IRCWEE\)](#)



[Water Researcher and research database of the IRCWEE at Al-Balqa Applied University](#)



[The Environmental Modeling and Climate Change Laboratory](#)



[SMART](#)

Sustainable Management of Available Water Resources with Innovative Technologies





التعاون الألماني
DEUTSCH-JORDANISCHES ZUSAMMENARBEIT

In Cooperation with



Ministry of Water & Irrigation
وزارة المياه والري



Water Authority
سلطة المياه

SWIM – Sustain Water MED

Network of Demonstration Activities for Sustainable Integrated Wastewater Treatment and Reuse in the Mediterranean

شبكة الأنشطة الإرشادية المستدامة المتكاملة لمعالجة المياه العادمة وإعادة استخدامها في منطقة البحر الأبيض المتوسط

Wastewater Treatment Plant using SBR Technology at the Head Quarters of the Public Security Directorate

محطة معالجة المياه العادمة في مديرية الأمن العام



A Project Funded by the European Union and the German Federal Ministry for Economic Cooperation and Development

Implemented by



Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Beneficiary



Public Security Directorate
مديرية الأمن العام

Project Partner



The International Union for Conservation of Nature
الاتحاد الدولي لحماية الطبيعة

Project Partner



Al Balqa Applied University
جامعة البلقاء التطبيقية

Presented by :
Nabil Wakileh, General Manager of NAW & Co, Jordan

Contractor



SWEM project Sustain water MED
PowerPoint Presentation (swim-sustain-water.net)



Promoting awareness of water conservation and governance



BAU and Ministry of Water and Irrigation Sign Agreement to Launch National Capacity-Building Program in Water Governance and Sustainable Management





Strengthening National Capacities in Decentralized Wastewater Treatment



Training course on wastewater treatment concludes at BAU



Smart Organic Agriculture Program at BAU: Reducing Pollution through Sustainable Farming Practices



How BAU is facing a parched future



Septic tanks at wastewater management



Awareness workshop on modern irrigation techniques and the reuse of fair and gray water in agriculture.



BAU significantly contributed to spreading the culture of treated wastewater reuse at the scientific and social levels



تعزيز تنمية المهارات لمعالجة مياه الصرف الصحي وإعادة استخدامها في الزراعة ضمن برنامج التعليم والتدريب التقني والمهني العالي في الأردن

Strengthening skills development for wastewater Treatment and Reuse in Agriculture in a recently established higher TVET programme in Jordan (WATRA)

Developing Skills to Treat Wastewater and Reuse it in Agriculture



Livable Cities for All.
Our vision is our mission.

Our aim is to give people access to basic sanitation regardless of their income, gender, origin, place of residence, culture and religion and to make their surroundings healthy and livable places.

Partnership with a technical organization specialized in the field of sustainable environmental protection through integrated sanitation solutions.

Water Fun... for life!

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[Find out more](#)

Background

of "Water fun – hands, minds and hearts on Water for Life!"

Integrated Water Resources Management Approach

Access to drinking water and sanitation are fundamental issues for the quality of life of every person. Both of these aspects are highly interconnected with the issue of water resources. The availability and quality of water sources are among the most important issues for supplying drinking water. But water sources in regions with poor or even no sanitation are usually polluted with human waste, thus leading to negative impacts on human health and the environment. Other sources of water pollution include agricultural activities (due to the infiltration of nutrients and pesticides into groundwater), cattle ranching activities (which generate animal wastes that also pollute water bodies) and wastewater from industry.

Navigation

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[Capacity Development in IWRM](#)
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[Water fun – hands, minds and hearts on Water for Life](#)



Jordan

Al-Balqa Applied University



Ministry of Water and Irrigation - MWI



Ministry of Education - MOE



Water fun Project - BAU as a Partner



Water Management Strategies and Adaptation Actions under
a Global Change Context for the Mediterranean Region

WATER4MED

01 June 2024 - 31 May 2027



About the Project

The WATER4MED project aims to develop innovative solutions for water management in the Mediterranean region, focusing on adaptation to increasing climate change challenges.

Our goal is to improve water governance models and propose solutions for water storage and flood mitigation.



Politecnico
di Bari

جامعة ابن زهر
Y.BALQA HSC KIDG
UNIVERSITÉ IBN ZOHR



TÉCNICO
LISBOA



Ministry of Higher
Education and Scientific Research



الجامعة الهاشمية
جامعة ابن زهر

fct

Fundação
para a Ciência
e a Tecnologia



WATER4MED



Capacity Building for Water Sector Engineers through National Training Programs at Al-Balqa Applied University

جلس الخدمات المشتركة وبلدية الفحيص في يوم تشاركي في محطة الفحيص التابعة للمركز الدولي لبحوث المياه والبيئة والطاقة
(0 تعليقات) (1036 مشاهدات)



Joint Services Council and Al-Fuhais Municipality in a participatory day at the Al-Fuhais station affiliated with the International Center for Water, Environment and Energy Research



أارة التبادل العلمي من دولة المانيا الإتحادية للمركز الدولي لبحوث المياه والبيئة والطاقة

1344 مشاهدات (0 تعليقات)



Scientific exchange visit from the Federal Republic of Germany to the International Center for Water, Environment and Energy Research



Raising water and environmental awareness among children / water treatment techniques