



SDG 6.5.1

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

[6.5.1] Water management educational opportunities – BAU

United Nations Academic Impact

Search A-Z Site Index

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UNAI SDG Hub 4



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

United Nations Academic Impact **SUSTAINABLE DEVELOPMENT GOALS** **4 QUALITY EDUCATION**

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



COURSES DESCRIPTION

(*Thesis Track*)

Course No.	Course Description	Credit Hours
504009721	<p>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.</p>	3(2-3)
504009722	<p>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. 2nd 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. 1st Edition. CRC Press, USA. - Nesaratnam, S.T. 2014. Water pollution control. The Open University, UK.</p>	3(3-0)

[**Master's in Water and Environmental Resources Management**](#)



جامعة البقاء التطبيقية

الخطة الدراسية لدرجة البكالوريوس في تخصص إدارة موارد المياه والبيئة

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

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



الخطة الدراسية لمرحلة "الدرجة الجامعية المتوسطة"

في

تخصص معالجة المياه

(برنامج الدراسات الثانوية 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](#)



مختبر النمذجة البيئية والتغير المناخي
Environmental Modelling and Climate Change
Laboratory



المركز الدولي لبحوث المياه والبيئة والمطلاة (IRCWEE)



The Environmental Modeling and Climate Change Laboratory



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SMART

Sustainable Management
of Available Water Resources
with Innovative Technologies

SMART

Sustainable Management of Available Water Resources with Innovative Technologies



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

Implemented by



Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

Beneficiary



Public Security Directorate
مديرية الأمن العام

Project Partner



Al Balqa Applied University
جامعة البقعة التطبيقية

Contractor



WAKILEH
contracting

Presented by :

Nabil Wakileh, General Manager of NAW & Co, Jordan

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



<p>Land of No Rain: How Jordan Is Facing a Parched Future</p> <p>Uweis Lisey / 06 Aug 2018</p>  <p>Modest, high-efficiency septic tanks at a wastewater management dissemination site opened by Al-Balqa Applied University (Photo: Uweis Lisey)</p>	
How BAU is facing a parched future	Septic tanks at wastewater management
	<p>JORDAN NEWS</p>  <p>WATRA Week II concludes at BAU</p>
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!

[Home](#) · [Background](#) · [Teaching Programme](#) · [Experiences](#) · [Water Fun Services](#) · [Partners & Promoters](#) · [Contact](#) · [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

[IWRM approach](#)
[Capacity Development in IWRM](#)
[The SMART project](#)
[The MoMo project](#)
[History](#)

Media to download

[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
UNIVERSITÀ IBN ZHHR
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TÉCNICO
LISBOA

IST-ID



Ministry of Higher Education
and Scientific Research
Ministère Supérieur de l'Enseignement
Supérieur et de la Recherche



MINISTERIO DE MEDIO
AMBIENTE Y MEDIDA
MINISTERIO DE MEDIO
AMBIENTE Y MEDIDA
الوزير المسؤول عن البيئة
وزير المسؤول عن البيئة

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 الفحيس في يوم تشاركي في محطة الفحيس التابعة للمركز الدولي لبحوث المياه والبيئة والطاقة

0 مشاهدات | 1036 تعليقات



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



ارة التبادل العلمي من دولة المانيا الاتحادية 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