

Template for Evidence(s) UI GreenMetric Questionnaire

University : Alexandria University
Country : Egypt
Web Address : www.alexu.edu.eg

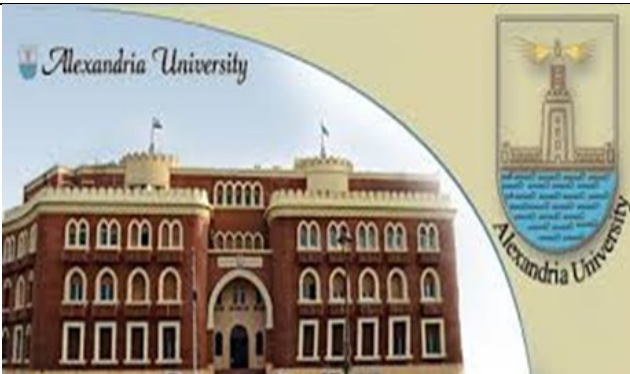





[6] Education and Research (ED)

[6.12] Sustainability Report

[1] Setting and Infrastructure (SI)

Number of Campus Sites: 34



	
<p>University Administration Building (Alexandria University)</p>	<p>Faculty of Engineering (Alexandria University)</p>
	
<p>Faculty of Science (Alexandria University)</p>	<p>Faculty of Dentistry (Alexandria University)</p>
	
<p>Alexandria University Administration Building Mural drawings of Alexandria University Memorial, depicting glimpses of historical events that form part of</p>	<p>Faculty of Medicine Mural of the Healing Amulet at the Academic Building. Name of the work: Healing Amulet. Artist: Dr. Mona Ragab. Production: 2021. Execution style: Mosaic</p>

Alexandria University's memory. Production in 2020.	
Execution style: Oil painting and mixed media	

The total area on campus covered in planted in the University of Alexandria campus is 4070666.23 m². The total building area in the campus is 2385538.832 m², while the open area is 1627003.212 m².

Evidence Link: Alexandria University Video: It shows an overview of Alexandria University Campus.

https://alexuuni-my.sharepoint.com/:f/g/personal/v-presenv_alexu_edu_eg/Eo2qOnh3ty1GvbnrSrSkabUBuh-6L5AAAtEx_f94cd2035Q?e=QMvtz5

Since
1942

⚡

Introducing
Alexandria
University





- Alexandria University is national academic, and research powerhouse devoted to the production and dissemination of knowledge
- Third largest universities in Egypt, and Cornerstone in the development of the emerging Alexandrian nation
- Committed to providing equal opportunities for all without discrimination based on religion, race, gender, or age.

Since
1942

⚡

"Education is
a right as
water and
air."

*By Taha HUSSEIN, First
President of AU*



**Ancient Bibliotheca Alexandrina
Founded in the 3rd century BC**



**Alexandria University
Administration Building
Founded in 1942**

- The largest libraries worldwide
- a centre of translation and storing of the ancient world's manuscripts, until 30 B.C.E

- The city's oldest and largest university
- Leading institution of Tertiary education and higher education and research





In 1938, the nucleus of the Alexandria University (formerly known as Farouk University) had its beginning in the form of two faculties of Fouad the First University. These were the faculties of Arts and Law. The faculty of Engineering was then established in 1941. In the light of the need for developing more disciplines for higher learning and with a view towards meeting the need of the people of Alexandria, Alexandria University became a separate entity in August 1942 with four additional faculties: Science, Commerce, Medicine and Agriculture.

In 1952, it became "Alexandria University". Since then, the University witnessed growth and expansion in several fields: the number of Faculties and high institutes increased to 24.

Since
1942

Structure

AU buildings
resides in
about 38
locations

-  21 Faculties and 3 Institutes
-  12 Hospitals
-  6 Student's Hostels
-  The university has established 2 branches in Chad and South Sudan, and working on establishing a branch in Malaysia



Alexandria University supervised the establishment of four faculties in the Nile Delta. Those were: Faculty of Medicine (1962) and Faculties of Science (1969) in Tanta (currently Tanta University), Education and Agriculture (1969) in Kafr-Elsheikh (currently Kafr-Elsheikh University).

Seven other Faculties were established in Damanhour, the capital of Behera Governorate: Faculty of Education (1980), Faculties of Arts, Agriculture, and Commerce (1983), Science, Veterinary Medicine, and Nursing (2007) (currently Damanhour University).

In 1989, the Faculties and Institute affiliated to Helwan University and located in Alexandria joined the Alexandria University by a Presidential Decree: four Faculties of Physical Education for men, Physical Education for women, fine Arts, and agriculture at Saba-Basha.

A Faculty of Basic Education was also established in 1991, faculty of tourism & Hotels, Faculty of Agriculture, Faculty of Veterinary, Medicine and Faculty of Nursing in Marsa-Matrouh Governorate, 300 Km west of Alexandria.

In 1998, two Faculties affiliated to the ministry of Higher Education, joined the Alexandria University: Kindergarten Teachers Training and Specific Education.

Believing in its role towards Arab and African countries, Alexandria University established in 1960 in Beirut, Lebanon, "Beirut Arab University" which is run and supervised by educational and administrative cadres from Alexandria University.

Since
1942

Structure

Medical
sectors



MEDICAL SECTOR

6 Faculties

- Faculty of Medicine
- Faculty of Pharmacy
- Faculty of Dentistry
- Faculty of Nursing
- High Institute of Public Health
- Medical Research Institute



Since
1942

Structure

STEM
sectors



MEDICAL SECTOR



**SCIENTIFIC
SECTOR**

5 Faculties

- Faculty of Engineering
- Faculty of Science
- Faculty of Agriculture
- Institute of Graduate Studies & Research
- Faculty of Agriculture (Saba Basha)



Since
1942

Structure

Humanities
sector



MEDICAL SECTOR



**SCIENTIFIC
SECTOR**



**SOCIAL & HUMAN
SCIENCES SECTOR**

6 Faculties

- Faculty of Arts
- Faculty of Law
- Faculty of Commerce
- Faculty of Tourism and Hotels
- Faculty of Fine Arts
- Faculty of Economic Studies & Political Science



Since
1942

Structure

Education
and
behavioral
sciences



MEDICAL SECTOR



SCIENTIFIC SECTOR



**SOCIAL & HUMAN
SCIENCES SECTOR**



**EDUCATIONAL
SECTOR**

5 Faculties

- Faculty of Education
- Faculty of Physical Education for Men
- Faculty of Physical Education for Girls
- Faculty of Special Education
- Faculty of Kindergarten





Recently, Alexandria University is working on the establishment of a branch in Juba, south of Sudan, and in N'djamena in Tchad, and Malaysia.



Since
1942

International
Relations
Office
(IRO)



International Partnerships : Partnerships with world-class universities across the globe through bilateral/multilateral agreements and their follow-up



Visiting Professors



Supporting Alexandria University Branches in South Sudan, Chad, and Malaysia



Students mobilities and Exchange



Study Abroad strategy through double and joint degrees

The slogan of Alexandria University Contains the Lighthouse of Alexandria which is a huge building on the island of Pharos at the entrance of the eastern port of Alexandria, constructed in the era of Ptolemy II at about 280 BC. The National Alexandria University was established last academic year (2022/2023), with 9 undergraduate Programs (attached is a list of the new programs).

Study began at Alexandria National University at its headquarters in New Smouha, starting from the academic year 2022/2023, in nine programs that grant bachelor's degrees, as follows:

- 1 - College of Medicine - Medicine and Surgery Program.
- 2 - College of Dentistry - Oral and Dental Medicine and Surgery Program.
- 3 - College of Pharmacy - Pharm de Clinical Program.
- 4 - College of Engineering (Architecture and Construction Program - Computers and Communications Program - Mechatronics and Robotics Engineering Program).
- 5 - College of Computer and Data Sciences (Cybersecurity Program - Smart Systems Program).
- 6 - College of Science - Software and Multimedia Industry Program.

Campus Setting

Alexandria Campus is located in several campus cites, some of them are located in the city center such as: The medical complex, Faculty of Science in Moharram Bek, Faculty of Engineering, Campus of Humanities and Social Sciences, Faculty of fine Arts, Faculty of Specific Education, Faculty of Early Childhood Education, Faculty of Agriculture Saba Pasha, Expatriate Student Housing Saba Pasha, Medical Research Institute (Horia Street - Smouha), Higher Institute of Public Profession, Institute of Graduate Studies and Research, Central Library, Student Activities Center, Community service center, printing press, club and garage – Smouha, University Stadium (Student Service Center), Youth Care, University land in Smouha (College of Nursing - Children's Hospital - Faculty members residences), Land of Mouwasat Hospital.

Other Campus cites are located in Suburban area such as: Faculty of Physical Education for Boys, Faculty of Physical Education for Girls, Veterinarians Abis, Saba Basha Babis tenth farm, Bagushe, Burj Al Arab International Medicine, Pigeon farm (affiliated with the Faculty of Agriculture), Earth of the globe, The farm land of the Faculty of Agriculture, Saba Basha, in the area of Khemisa, Siwa Oasis, Break of the Faculty of Science in the old Burj Al Arab, International Media (Burj Al Arab), The land of Wadi Natrun, Abis Campus.

The total area of the campus sites is 8083208.274 m²

Total campus buildings area: 6795394.87 m²

Total Campus ground floor area of buildings: 2385538.832 m²

Ratio of open space towards total area: 20%

Total Area on Campus Covered in Forest Vegetation (meter²): 1,016,009.545 m²

The forest area in Egypt is very rare. Saba Basha Abis tenth farm, the farm land of the Faculty of Agriculture, Saba Basha, in the area of Khemisa, Siwa Oasis (Alexandria University, Egypt), the land of Wadi Natrun and International Media (Burj Al Arab) has an Area on the campus covered in plants and trees.

Total area: 1,016,009.545 m²

Total area on campus covered in planted vegetation (meter²) = 4070666.23 m²

Total Campus Area: 8083208.274 m²

Percentage planted area: 50%

Total area on campus for water absorption besides the forest and planted vegetation (meter²)

Total water absorption area: 5697669.442 m²

Total Area: 8083208.274 m²

Percentage area: 70%

Link for Sustainable Development: <https://alexu.edu.eg/index.php/en/sustainable-development>

<https://alexu.edu.eg/index.php/en/2015-11-24-10-38-07/ranking?id=6011>

<http://sustainability.alexu.edu.eg/>

Link for Green University:

https://alexu.edu.eg/index.php/?option=com_content&view=article&id=5932&catid=21&lang=ar-AA

University budget for sustainability effort (in US Dollars)



	2020/2021	2021/2022	2022/2023	2023/2024	Average
Budget Total	\$ 187,207,054	\$ 193,728,698	\$ 239,476,062	\$ 181,111,773	\$ 200,380,897
Sustainability Budget	\$ 58,251,507	\$ 36,209,262	\$ 44,376,076	\$ 37,381,470	\$ 44,054,579
		Percentage			21.99 %

The average percentage of Alexandria University budget for sustainability effort is 21.99%.

Percentage of operation and maintenance activities of building in year 2023

Total campus buildings area	6,795,394.87 m ²
Total operated building	2,592,890 m ²
Percentage building that operated and maintained	38.16 %
The University total budget 2023/2024	\$ 181,111,773
The University total sustainability budget 2023/2024	\$ 37,381,470
The University budget for Maintenance 2023/2024	\$ 23,560,540
The percentage of budget for Maintenance	13.01%



The large meeting hall of the Faculty of Medicine has been renovated



Renovation of the gymnasiums at the College of Physical Education for Girls



Renovation of all computer halls in the faculty of Physical Education for Girls



Maintenance and renovation of computer halls in faculties



Renovating all computer halls and supplying them with smart screens in all faculties.



Alexandria University Initiative to Enhance the Capabilities of Practical College Laboratories for the Bachelor's Degree Program



Initiative to Enhance the Capabilities of Practical College Laboratories for the Bachelor's Degree Program.

Alexandria University Initiative focuses on improving and upgrading the facilities and equipment of the laboratories in various faculties. This initiative aims to provide undergraduate students with access to advanced, state-of-the-art practical resources, supporting their education and helping them gain hands-on experience in their respective fields. By doing so, it aligns with the university's broader mission of enhancing the quality of education and ensuring that students are well-prepared for both academic and professional challenges.



Increasing the efficiency of bathrooms



Construction of New Buildings in Abbes Campus (Alexandria University, Egypt)

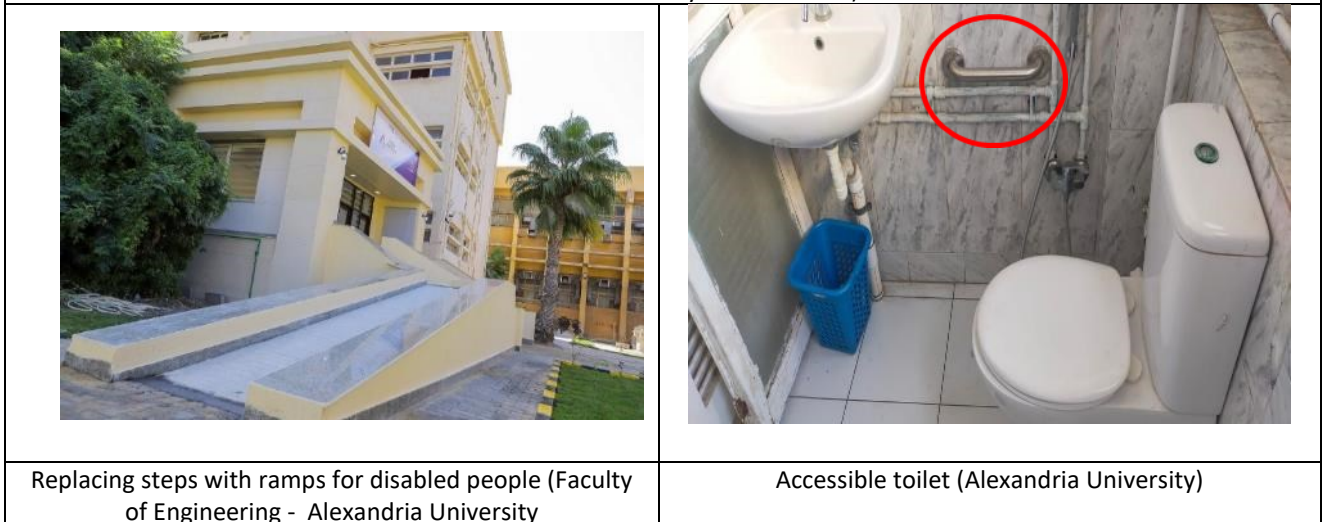
Campus facilities for disable, special needs and or maternity care



Taha Hussein Centre for the support of disabled people (Alexandria university, Egypt)



Alexandria University campus facilities for people with special needs, the disabled and maternity care (Disables Service Center on the Faculty of Commerce)



Replacing steps with ramps for disabled people (Faculty of Engineering - Alexandria University)

Accessible toilet (Alexandria University)

1. Taha Hussein Centre for the support for disabled people.
2. Alexandria University campus facilities for people with special needs, the disabled and maternity care. Disables Service Center on the Faculty of Commerce: 1) There is a corridor to facilitate their movement with wheelchair. 2) The elevators are available for any student with special needs. 3) There are wheel chairs in the Faculties for emergency and special cases. 4) The University has prepared a special place in the campus as clinics for the conscription site to physically examine the students with special needs and give them certificates of exemption from conscription, as a contribution from college to reduce burden on them and their families.
3. Replacing steps with ramps for disabled people Alexandria University.
4. Accessible toilet for disabled people.

Maternity care at Alexandria University

The Women's Health Center, located at the Medical Research Institute (MRI) of Alexandria University, specializes in the early detection of breast diseases using the latest mammography equipment. This project is part of a national plan to examine the most common diseases among women over the age of forty in Alexandria and nearby governorates, aiming at the early detection of breast tumors and osteoporosis for prevention and treatment.

- Mammogram screening.
- Ultrasound examination of the breast.
- Measurement of osteoporosis.
- Medical analysis and tumor markers.
- Health education and self-examination of the breast.

<https://mri.alexu.edu.eg/index.php/en/mtc/services/women-s-health-center>

Women's Health Center



The Women's Health Center, located at the Medical Research Institute (MRI) of Alexandria University, specializes in the early detection of breast diseases using the latest mammography equipment.

Training courses for children and people with special needs

The Educational Services Center - Faculty of Education, Alexandria University



Description: The Educational Services Center provides training courses for children and people with special needs. The Programs provided by the center and the number of trainees is given in the Tables below.

Training programs developed from March 2020 to October 2023

No.	Program name	Number of levels	Hours per level
1	Teaching people with visual impairment how to use Braille	1	18
2	Cognitive behavioral therapy	1	12
3	Emotional behavioral therapy	1	12
4	Behavioral therapy	1	12
5	Occupational therapy and dealing with cerebral palsy	1	18
6	"Pooled Projective" Clinical Tests	1	18
7	Foundations of psychological evaluation of children	1	12
8	Art psychotherapy	1	18

Activity of the Faculty of Early Childhood Education

As part of the celebration of the International Day of Persons with Disabilities, the Early Intervention Center offered a free workshop that included various perspectives and a new approach to feeding children with special needs. The workshop featured an interactive session for parents and children on "How to Make a Paper Puppet" (Make Your Doll with Mom).



Security and safety facilities

1. Fire extinguisher and sand buckets (Alexandria University).
2. Fire Exit (Alexandria University): There is an emergency exits in all faculty buildings with fire exit plan
3. Security Doors for the Exam control rooms (Alexandria University).
4. Fire alarm call point
5. Fire Alarm (smoke detector)
6. Fire extinguisher and description of how to use it properly (Alexandria University)
7. Video surveillance systems are deployed at various locations within a university campus to enhance security, safety, and operational efficiency. Video surveillance systems are used to monitor the outside perimeter and entrance of all University buildings.
8. Each Faculty at Alexandria University has a student team for occupational safety and health. The student attend several workshops during the academic year. Workshops, seminars, and awareness campaigns educate the students about safety and health issues, including fire safety and personal safety. The student teams play a crucial role in promoting and maintaining a safe and healthy environment.
9. The student team conduct regular safety inspections of campus facilities and report any safety hazards to the university administration for prompt rectification.



Fire extinguishing systems in faculties and institutes of the university

Hospitals: The firefighting system is currently being changed from the manual system to the automatic fire network system. For example, in Smouha University and the main university hospital (Automatic sprinkler system "Water" FM 200).

Universities: All Universities are still operating with the manual extinguishing system:

- 1- 45 inch water networks and 3 inch water networks.
- 2- Mobile extinguishers system
 - a) CO₂ Extinguishers
 - b) Powder extinguishers
- 3- There is an emergency exits in all faculty buildings with fire exit plan.

All devices are subject to annual maintenance (attached pdf file). The attached pdf is an example of Minutes of the Occupational Safety and Health Committee meeting, which is held every three months. The Committee make a yearly plan. In the meeting they discuss their activity program and regularly discuss any problems observed during this period.

	
<p>Fire extinguisher and description of how to use it properly (Alexandria University)</p>	<p>Security Doors for the Exam control room (Alexandria University)</p>
	
<p>Fire extinguisher (Alexandria University)</p>	<p>Video surveillance system at Alexandria University</p>
	
<p>Evacuation Scenarios for Buildings in Case of Emergencies. Evacuation Drill at the Library Building of the College of Physical Education for Girls.</p>	

Student Team Program for Occupational Safety and Health

Alexandria University 2023/2024

Aim of the Program

- To complement the role of the Safety Unit at the Faculty of Science in raising awareness of the concept of occupational safety and health.
- To apply the requirements of occupational safety and health in the Faculty of Science in all its buildings and departments.
- To achieve the practical application of the students for the occupational safety and health course 040306225 which has become a course that meets the needs of the labor market for our country's promising youth.
- To complement the unit's summer activity, which began in spring 2021 until now.

Program Subject:

The program includes Five main activities:

- 1- Lectures from specialists in the field of occupational safety and health.
- 2- Workshops that serve the field of occupational safety and health such as first aid and fire fighting....etc.
- 3- Field visits to different and diverse companies to learn how to apply occupational safety and health requirements in various installations.
- 4- Field training in the faculty: The training is carried out under the supervision of a coordinator from each department of the faculty. It includes how to apply occupational safety and health requirements in the faculty and its various departments to avoid various work risks, by applying different activities. For example: arrangement, organization and indexing of chemicals (soft and hard copies) in the various laboratories of the faculty. Preparation of the material safety data sheet of Hazardous Chemicals (MSDS).
 - An inventory of occupational safety and health equipment located in the different departments of the faculty (fire extinguishers of all kinds, sand buckets, first aid boxes, emergency signs... etc).

5- E-Activity

The electronic activities include performing the following topics:

- ❖ Preparing a guide for the application of safety requirements with the use of local and international references.
- ❖ How to prepare an emergency, evacuation and working group plan.
- ❖ How to dispose of waste and its types - mechanisms used (references).
- ❖ How to prevent and respond to fires (different causes).
- ❖ Designing an opinion poll on the extent of awareness of the general requirements for safety among college students with its circulation and analysis.
- ❖ Safety guidelines in laboratories (during experiments and after completion) according to disciplines - chemistry - physics - computer - geology and biology.
- ❖ Preparation and design of awareness videos ((Infograph).
- ❖ First Aid Guide

Statement of Activities of the Safety and Health Committee from July 2023 to October 2024

1. **Training of Committee Members at the Labor Cultural Institution:** A total of seven committee members received basic safety and health training at the Labor Cultural Institution from September 17 to September 28, 2023, and obtained their training certificates.
2. **Fire Extinguisher Maintenance:** The condition of fire extinguishers was monitored, and they were refilled and serviced annually. Maintenance was carried out in August 2023 and September 2024.

3. **First Aid Kit Inventory:** The contents of first aid kits, including medical supplies and medications, were replenished in all college buildings and departments at the beginning of the academic year, specifically from October 2023 to February 2024 (follow-up) and again in October 2024. The committee assigned the safety officer at the Moharram Bey building to report biweekly on the usage of first aid kit contents.
4. **Chemical Inventory Management:** The safety of chemicals was monitored, and a special location was prepared for storing expired chemicals and fluorescent bulbs until their safe disposal by the Nazaria landfill on August 29, 2023.
5. **Building Roof Monitoring:** The condition of building roofs regarding rainwater drainage was monitored by building supervisors and safety officials before the onset of winter in September 2023 and September 2024.
6. **Compliance During Restoration:** Compliance with safety and health regulations was ensured during restoration work at the college building in Shatby.
7. **Elevator Monitoring:** The status of elevators was checked, with maintenance performed on December 5, 2023. Monitoring continued during restoration work in Shatby. The Safety and Health Committee decided on October 2, 2024, to suspend the use of elevators in Buildings A and B until their maintenance was completed, starting from October 2, 2024.
8. **Water Tank Cleaning:** Regular cleaning and disinfection of water tanks were carried out.
9. **Biannual Statistics:** Biannual statistics were compiled for the periods from June 30, 2023, to December 31, 2023, and from January 1, 2024, to June 30, 2024.
10. **Fire Extinguisher Training:** Laboratory technicians, storekeepers, and supporting service workers were trained on the use of fire extinguishers on April 30, 2024, at the college playground in Moharram Bey.
11. **Emergency Evacuation Training:** A training session on safe evacuation in emergencies was organized for firefighting and evacuation teams on May 9, 2024.
12. **Firefighting Training:** Five committee members received fire prevention training from the Alexandria Civil Defense at the university city.
13. **Attendance at Workshops:** Two committee members attended workshops on:
 - Mental Health on April 23, 2024.
 - Crisis Management and Problem-Solving on April 24, 2024. This was part of a skills development program organized by the African Center for Women's Health Services in Alexandria.
14. **Safety Compliance Monitoring:** Safety and health regulations were monitored and enforced in the college workshops and storage facilities in Moharram Bey.
15. **Emergency Plan Approval:** The emergency plan for college buildings (Shatby, Moharram Bey, Marine Sciences) was approved by the Occupational Safety and Health Office of the Ministry of Manpower in April 2024.
16. **Waste Disposal Contracting:** Procedures are being undertaken to contract with Nahdet Misr for the safe disposal of solid waste. The Safety and Health Committee recommended in its meeting on December 6, 2023, the inclusion of a clause for the safe disposal of biological waste.
17. **Student Safety and Health Team Program Report:** A report was prepared on the student safety and health team program at the Faculty of Science, which was conducted between July 13, 2023, and August 31, 2023.



Radiation in Workplaces and How to Prevent It

The lecture covered the definition and types of radiation, and how to protect workers from different types of radiation, such as alpha, beta, and gamma rays, which are used in medical and engineering fields. It also discussed how to measure radiation using various devices.



A first aid trainer at the Red Crescent



Field training at the Faculty



Field trip to AKBA Chemical company in May 2024

Health infrastructure facilities for students, academics and administrative staffs' wellbeing

1. The Faculty of medicine, Alexandria university is built on 225867 square meter surface area with all its different campuses including Main University Medical Complex, ELshatby, Elhadara, Smouha, Elmoassat and Borg Elarab campus.
2. Students teaching rooms compromise 12443.36 square meter from the faculty total surface area.
3. Alexandria University Medical Complex compromise seven buildings including Academic building, internal medicine building, Surgery building, conference center, Training center, Outpatient clinics, New university hospital building with total surface area 77154.
4. EL-shatby hospital compromise one building for obstetrics and gynecology department with total surface area 33288 square meter.
5. El Hadra Hospital compromise two buildings for orthopedics and neuropsychiatry with total surface area 21975 square meter.
6. Smouha hospital compromise two buildings for Emergency and pediatrics with total surface area 23691 square meter.
7. El-Mosaat hospital compromise eighteen teaching rooms with total surface area 23104 square meter.
8. The University Hospital contains 22 clinic as therapeutic units in all Faculties.



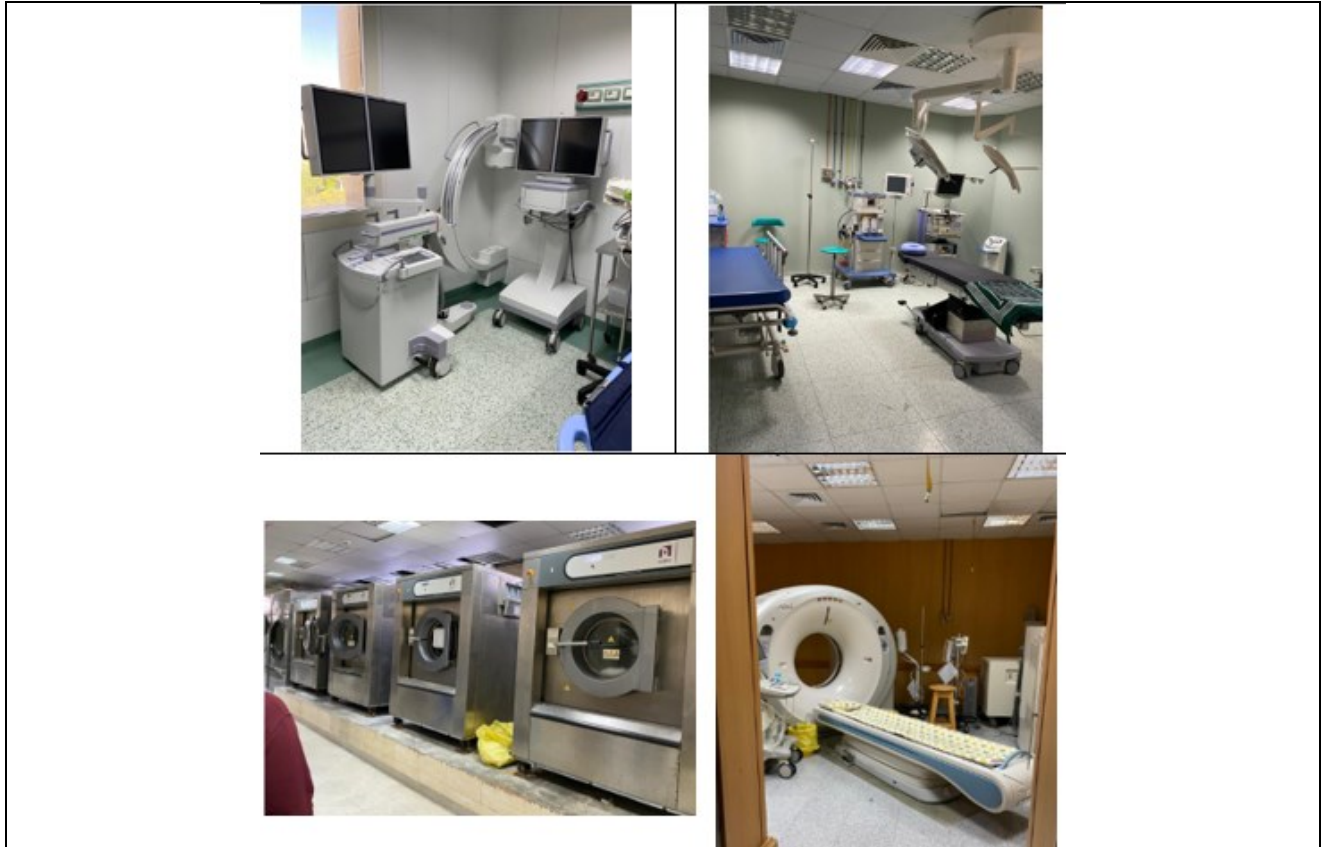
Alexandria University hosts several hospitals that provide a variety of medical services. Here's a list of the primary hospitals along with the services they offer:

1. **Main University Hospital (El Meery):** This hospital serves as a comprehensive medical center offering a wide range of services including emergency care, surgeries, and specialized treatments.
2. **El Shatby Hospital for Obstetrics and Gynecology:** Specializes in women's health, particularly in pregnancy, childbirth, and postpartum care. It also includes a pediatric department catering to newborns and children.
3. **El Shatby Pediatric Hospital:** Focused on pediatric care, this hospital provides services for children, including general health check-ups, treatments for acute illnesses, and emergency care.
4. **Al Mowasat University Hospital:** Offers a wide array of medical services, including surgery, internal medicine, and specialty consultations.
5. **Smouha University Specialized Hospital:** Known for advanced treatments, including pediatric cardiac care and various surgical specialties, such as gynecological oncology and heart surgery.
6. **El Hadara Hospital (Queen Nariman Hospital):** Focuses on orthopedics and neuropsychiatry, offering specialized services for musculoskeletal conditions and mental health.

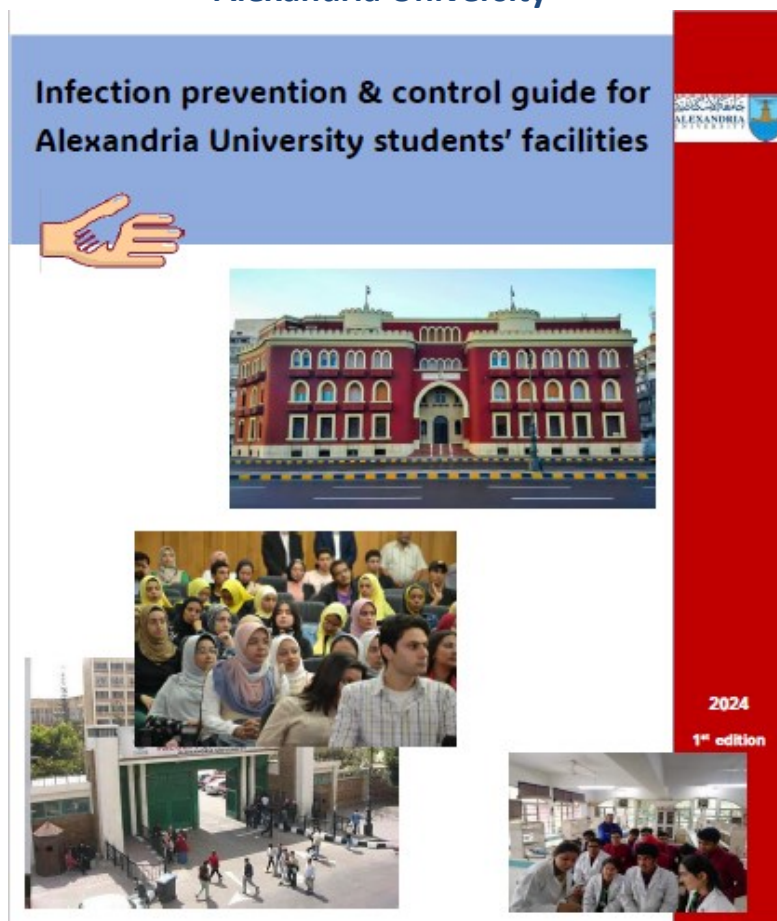
7. **New University Hospital:** Equipped with modern facilities, it provides general medical services and specialized care across various fields.
8. **One-Day Medical Services Center:** Offers outpatient services and minor procedures that do not require overnight hospitalization.

These hospitals have seen significant development recently, enhancing their capacity and service offerings to better meet the healthcare needs of Alexandria and surrounding areas.





Guideline for Infection Control in Student Facilities and Teaching Buildings at Alexandria University



As part of its commitment to sustainable development for improving environmental affairs and serving the community, Alexandria University has taken a pioneering role, being the first among Egyptian universities to adopt the idea of creating a comprehensive guide for correct procedures and practices that meet infection control recommendations within its facilities that serve students. This extends not only to the clinics in the colleges and institutes of the university but also to student residences, lecture halls, classrooms, laboratories, sports fields, and various other facilities frequented by students at Alexandria University.

The vision behind the university's initiative to develop this guide is to establish a framework for practices, behaviors, and requirements for all students and staff at Alexandria University, based on the principles and guidelines of infection control. This guide will serve as a reference for safeguarding the health and safety of students and staff, ensuring sustainability, and positively impacting the community in Alexandria. It will also serve as a model in this regard, with the guide being made easily accessible to the target audience both in printed format and electronically for ease of use and review when needed by all students and staff.

The goal of making this guide available to those interacting with Alexandria University, regardless of their roles, is to promote proper health practices among students and staff to ensure infection control and reduce its risks. This will improve working conditions, reduce the spread of contagious diseases, and raise health awareness within the university's facilities. It also encourages the adoption of proper procedures for environmental cleanliness and personal hygiene within the university's campuses, faculties, and institutes.

This initiative was accomplished through a team formed to represent all academics specializing in infection control at Alexandria University, including faculty members from the Faculty of Medicine, the Medical Research Institute, the High Institute of Public Health, and the Faculty of Nursing. This guide highlights the university's supportive role in all pioneering and innovative ideas that have a positive impact in various fields: socially, by enhancing individual daily practices; health-wise, by promoting sustainable health culture; and economically, by reducing infection rates among students and staff, thus relieving the economic burden on the university and the state in terms of medical treatment costs.

The guide presents, in a simplified yet scientifically accurate manner, the essential recommendations that must be followed and the correct procedures to minimize the risk of exposure to infections in various university facilities. It also includes instructions on dealing with incidents such as spills (vomit, bleeding, etc.) and primary guidelines for unexpected situations like bites or injuries. The team behind the guide hopes that its dissemination will lead to maximum benefit, earn the approval of its readers, and contribute effectively to the development of our beloved country. We also hope that we have fulfilled the mission entrusted to us by the university leadership, achieving their satisfaction and meeting their expectations in supporting this pioneering initiative.

Conservation: plant, animal, and wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities

- Green House (Faculty of Veterinary Medicine).
- Plantation (Faculty of Veterinary Medicine).
- Cattle Farming (Faculty of Veterinary Medicine).
- Botanic Garden (Faculty of Science in Moharram Bek).



- Botanic Garden, Green House (Faculty of Science in Moharram Bek) and its location in Alexandria City.
- Wildlife Conservation of some important fern.
- Preparation of Herbarium sheet for conservation plant species.



Botanic Garden (Faculty of Science in Moharram Bek)

The university botanic garden at the Faculty of Science is valuable to the educational and training facilities available to staff and students. In it, students can come to close intimacy with plants, use their senses of touch, smell and taste in familiarizing themselves with life features of plants, and develop their observation abilities in studying plants as they grow, mature and regenerate. Information intake is considerable. Land plots, greenhouses and sheds provide space for field experiments that may be part of botanical garden accumulates experiences and knowledge related to plant life; grasping this wealth of information and documenting it is a most welcome enterprise.

University botanic gardens often accommodate exotic species brought in to represent: (1) diverse ecological conditions in world biogeographical regions, and (2) diverse taxonomic groups of the plant kingdom. Husbanding and nursing these alien plants may need innovative means. This broadens the scope of work. The University botanical garden of Alexandria has its shares of these general attributes.



Botanic Garden (Faculty of Science in Moharram Bek)

Botanic Garden, Green House (Faculty of Science in Moharram Bek)

THE BOTANICAL GARDEN

The Botanical Garden is an institution holding documented collections of living plants for the purposes of scientific research, conservation, display and education.

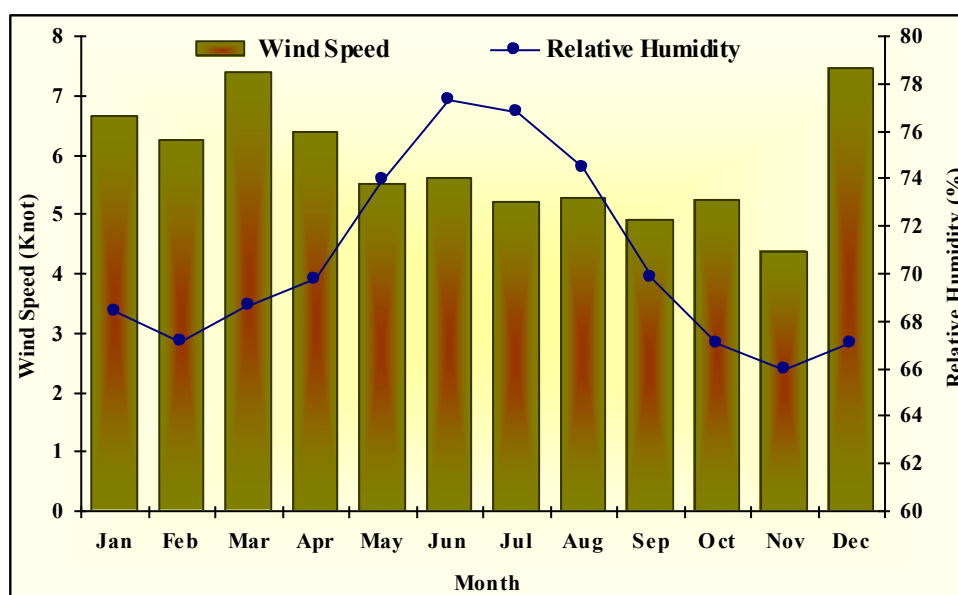
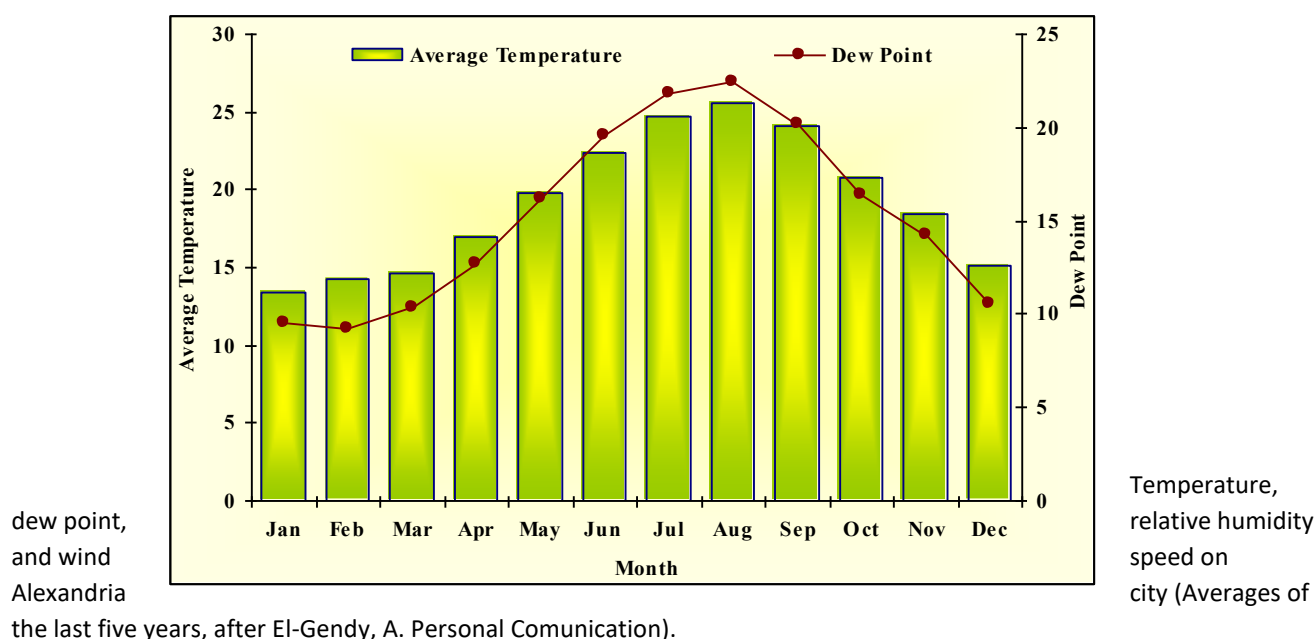
In 1942, a botanical garden was established at the Southern area of Muharrem Bek building (**Faculty of Science, King Farouk University**), between the coordinates: N: 31° 11' 19.38" E: 29° 54' 28.14", (Figure 1) and constituted a facility for education as well as for scientific research. Since 1942, the Botanical Garden was greatly developed and was provided with different plant species especially trees and shrubs introduced from different regions by Professor Mohamed Aziz Fekry (the Dean of Faculty of Science and Head of Botany Department 1948- 1958). It was consistently ranked as one of the top gardens by the International Union for Scientific Gardens (International code is **ALEX**), and holds some of the rare and most impressive species that facilitate improved learning, and teaching students; the purpose for which it was designed.

This area (about 1.4 hectares) is of international concern attracting a large number of overseas visitors, who come specially to see its collections. Although these are the main objectives, care has been taken to make the garden inexpensive to maintain, as well as interesting and attractive so as to provide for the local community, staff and students the garden as a reference collection.

According to the Global Strategy for Plant Conservation (GSPC), it is very important to put this garden on the schedule which means, listing and conserving all the garden's collections to become known, at least at the regional levels and next on the international level. With more than 455 species and 24 infraspecific epithets (subspecies, variety, forma), indigenous and introduced, in the Botanical Garden of the Faculty of Science, most of them represent tropical, subtropical, temperate species and the rest belong to the Mediterranean zone. This number is a very significant proportion of the Egyptian flora, as they belong to 121 families (total flowering plant families, which are treated 128 Boulos, 2005) while, the families treated in the checklist 2009 are 129 (Boulos, 2009). On the other hand, this garden is characterized by its high diversity,

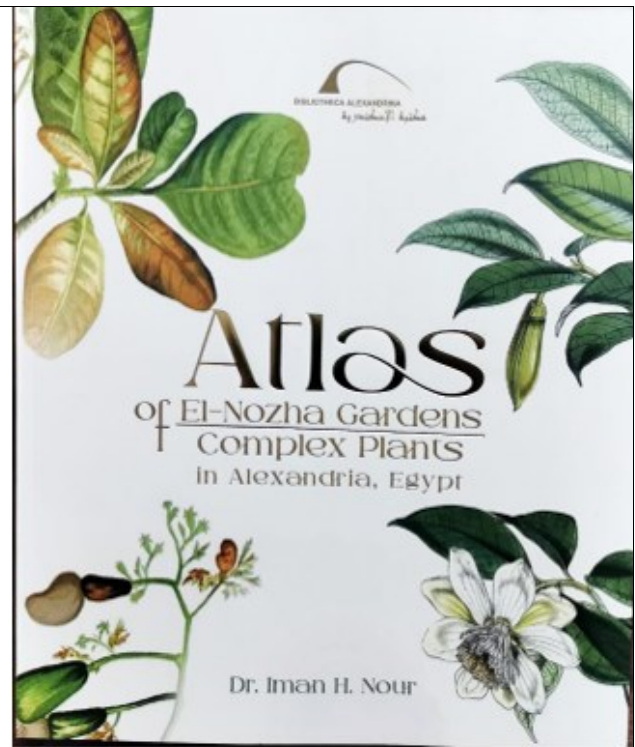
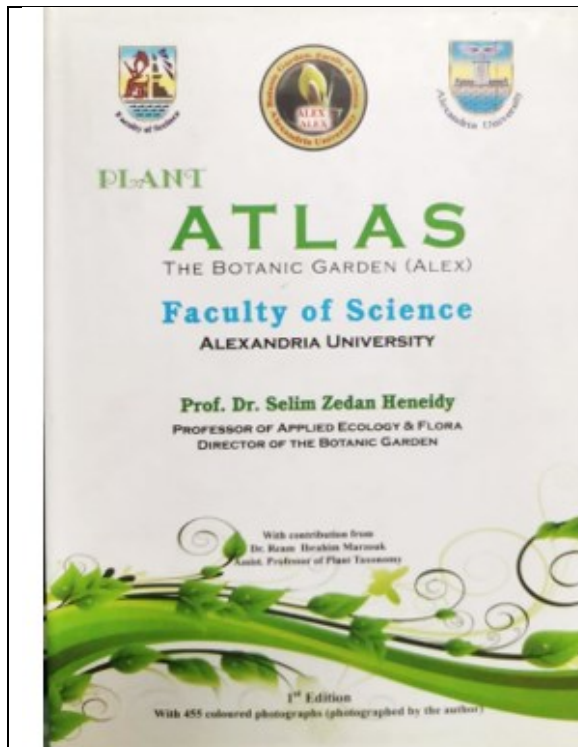
so the conservation of this plant diversity is both an enormous challenge and significant regional and national responsibility. It is well recognized that the plant diversity represents the greatest source of renewable natural resources of any country. More than 25% of plant species of this botanical garden are of medicinal value, about 14% of them are used as timber and good source of valuable wood. While 86% of the botanic garden species are used in decoration. All of these species are used as teaching materials for the students of biology. Some families appear in this book under two names, e.g. Compositae and Asteraceae. According to the “International Code of Botanical Nomenclature” (ICBN) both names are accepted. In other words, one is not a synonym of the other; these are alternative names and any or both of them could be used to refer to the same family (cited by Boulos, 2009).

Recently (in 2003) according to the Botanical Gardens Conservation International (BGCI), *ex-situ* conservation by vegetative propagation of rare species is carried out in the green houses of the Faculty of Science, Botanic Garden. For the purpose of genetic resources conservation, exchange of plant species with other botanic gardens and bulk collection of seeds representing most of plant species cultivated in the garden is also currently executed.



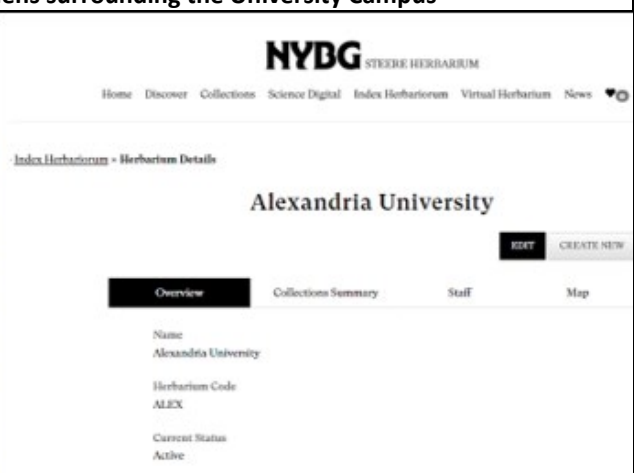
Published Book:

Heneidy, S. Z. (2010). Plant Atlas: the botanic garden (ALEX). *Monchaat Al-Maaref, Alexandria*. 632 pp.



Atlas of the Botanic Garden (ALEX) located at the Faculty of Science, Alexandria University.

Conservation efforts and floristic documentation of the historic Al-Nozha garden complex: An Atlas published by Bibliotheca Alexandrina to support the conservation of gardens surrounding the University Campus



ALEX Herbarium of the Faculty of Science, Alexandria University

ALEX Herbarium of the Faculty of Science


- The herbarium is listed in the Index Herbariorum (NYBG Steere Herbarium), contains a large collection of preserved wild plants, totaling up to 6,000 specimens, located in the Faculty of Science building in Shatby. These plants represent most of the Egyptian flowering plants and are accurately identified using flora books and cross-referenced with the Cairo University Herbarium. Specimens have been collected from the northern coast, North and South Sinai, southern Egypt up to the Sudanese border, and other regions.
- The herbarium serves graduate students and various research projects at Alexandria University and other universities. It is also a source of pollen samples for various studies. Students from various schools in Alexandria, as well as public and private universities across Egypt, are welcomed at the Herbarium of the Faculty of Science. These visits aim to introduce them to the herbarium's role, which is essential for preserving plant specimens and aiding in research, education, and conservation efforts. This effort is part of the university's plan to serve the community and achieve the 17th goal of sustainable development (partnership for the goals).
- Currently, the herbarium's plant species are being digitally photographed to facilitate the access of researchers and students without disturbing the type specimens or "reference samples" unless necessary.

Planning, implementation, monitoring and/or evaluation of all programs related to Setting and Infrastructure through the utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Enhanced Learning Resources, Interactive Learning, Collaboration and Communication, Virtual Classrooms and Online Learning, Assessment and Evaluation	Use of project management software and digital collaboration tools for planning and coordination	Project proposals, meeting minutes, digital planning documents	Jan 2023 - Mar 2024	GreenMetric Team of Alexandria University
Implementation	Installation of smart classroom technology	Deployment of interactive whiteboards, digital projectors, and video conferencing systems	user manuals https://www.prometheanworld.com/en/	Feb 2024 - Ongoing	ICT Dept, Measurement and Evaluation Unit at Alexandria University, Faculty and Leadership Development Center (FLDC) at Alexandria University, Alexandria University Project Management Unit
Monitoring	Regular audits of network infrastructure and classroom technology usage	Usage analytics software	Preparing reports to track students performance	Jul 2024 - Ongoing	ICT Dept, Measurement and Evaluation Unit at Alexandria University, Faculty and Leadership Development Center (FLDC) at Alexandria University
Evaluation	Assessment of ICT impact on teaching and learning outcomes	Assessments of grads students through the measurement and evaluation,	Survey results, academic performance data	Dec 2024	Measurement and Evaluation Unit at Alexandria University

Description:

- **Planning:** Enhanced Learning Resources, Interactive Learning, Collaboration and Communication, Virtual Classrooms and Online Learning, Assessment and Evaluation, Research projects, Research and international collaborations, Staff members' Development, Administrative Efficiency.
- **Implementation:**
 - A. **Enhanced Learning Resources:**
 - **E-books, digital libraries, online content, virtual labs, and Multimedia content** (videos, and 3D models) supports better understanding.












[HOME](#)
[SEARCH](#)
[SOURCES](#)
[TUTORIALS](#)
[EVENTS](#)
[PROGRAMS](#)
[FAQ](#)
[ABOUT US](#)






















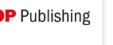























[IMAN](#)
[العربية](#)

Our Sources

Quick links to all resources and research tools on the EKB

 Readers
  Scientific Research & Higher Education
  Basic Education
  Kids
  Egyptian Research Output

Description

Our business is publishing. With more than 2,900 journals and 200,000 books, Springer offers many opportunities for authors, customers and partners. Throughout the world, we provide scientific and professional communities with superior specialist information – produced by authors and colleagues across cultures in a nurtured collegial atmosphere of which we are justifiably proud. We foster communication among our customers – researchers, students and professionals – enabling them to work more efficiently, thereby advancing knowledge and learning. Our dynamic growth allows us to invest continually all over the world. We think ahead, move fast and promote change: creative business models, inventive products, and mutually beneficial international partnerships have established us as a trusted supplier and pioneer in the information age.

List of products :

- Springer, ADIS and Palgrave Macmillan Journals
- Nature Journals and Academic Journals on Nature.com
- Springer E Books
- Springer Nature Experiments (Springer Nature Protocols and Methods)
- Springer Materials
- Springer References
- Springer E-books Back files 1842-2005
- Springer Journals Archive 1832-1997
- ADIS Insight

Back To Sources

SPRINGER NATURE
Experiments

e.g. technique, organism, antibody...

Nature Methods (2015)

Robust enumeration of cell subsets from tissue expression profiles

Authors: Aaron M Newman^{1,4}, Chih-Long Liu^{1,4}, Michael R Green^{2,3,4}, Andrew J Gentles^{1,8}, ... Ash A Alizadeh^{1,3,4,7,8}

Show more details Citations: 5,152

naturemethods

PDF Full Text

Abstract

We introduce CIBERSORT, a method for characterizing cell composition of complex tissues from their gene expression profiles. When applied to enumeration of hematopoietic subsets in RNA mixtures from fresh, frozen and fixed tissues, including solid ...more

Figures (17) & Videos (0)


Figure 1: Overview of CIBERSORT and application to leukocyte deconvolution.

The Alexandria University signed an agreement to allow students to register and participate in the Egyptian Knowledge Bank, a national project aimed at providing high-quality research and educational materials to Egyptian citizens, especially students and researchers. The agreement allows any applicant to browse free of charge for publications, magazines, audiovisual libraries, photo libraries, software and books from around the world.

جامعة الإسكندرية فهرس مكتبات جامعة الإسكندرية
Phone Email Twitter Facebook

احجز موعد

اتصل بنا
▼ أدوات
الخدمات
عن الوحدة
الصفحة الرئيسية



وحدة المكتبة الرقمية

من المعرفة إلى الابتكار...

أحد مشاريع تطوير التعليم داخل الجامعة بهدف ميكنة مكتبات الجامعة وتطوير العمل بها وإتاحة جميع مقتنيات وخدمات المكتبات في صورة رقمية، وذلك في إطار مشروع تطوير التعليم العالي في جمهورية مصر العربية، حيث تم بناء اتحاد المكتبات الجامعية المصرية EULC في بداية عام 2006م والذي تشرف عليه وحدة المكتبات الرقمية بالمجلس الأعلى للجامعات، كأحد الوحدات التابعة لمركز الخدمات الإلكترونية والمعرفية بالمجلس الأعلى للجامعات.

Website: <https://dlib-alexu.com/>

One of the educational development projects within the university aims to automate the university libraries and enhance their operations, providing all library collections and services in digital form. This is part of the Higher Education Development Project in the Arab Republic of Egypt. The Egyptian Universities Libraries Consortium (EULC) was established at the beginning of 2006 under the supervision of the Digital Libraries Unit at the Supreme Council of Universities, as one of the units affiliated with the Electronic and Knowledge Services Center at the Supreme Council of Universities.

Innovation In Pedagogy and Aiding Distance Learning Center



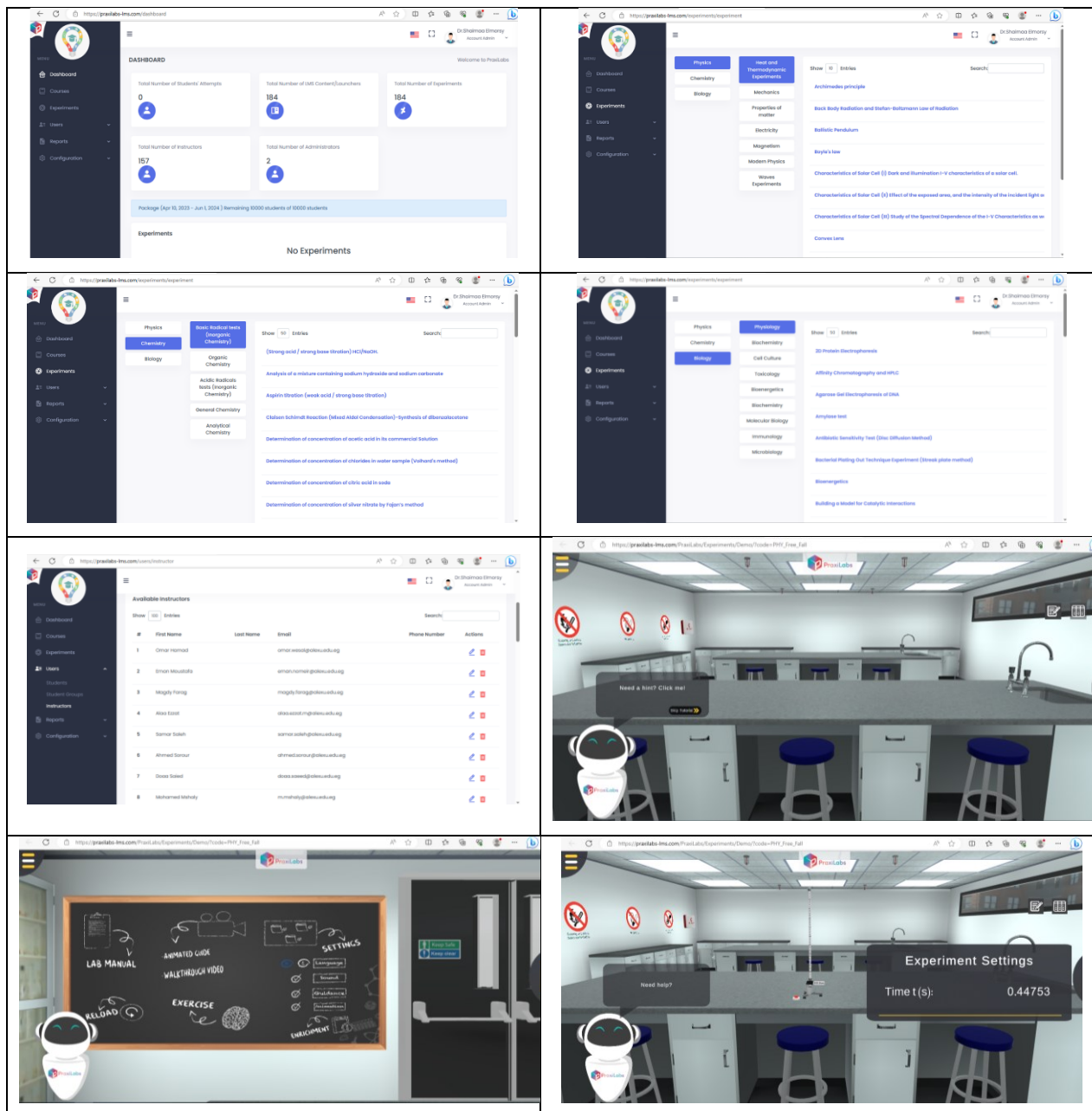
Alexandria University has initiated a new unit aimed at enhancing educational practices through technology, fostering innovation, and supporting internationalization. This unit will provide continuous access to educational resources for students, including those unable to attend classes regularly. Key objectives include developing electronic content for faculty, establishing training programs in distance learning, and promoting the recognition of online certifications. The initiative aims to attract African and international students and transform traditional educational practices through innovative teaching methods and technologies. The unit emphasizes development, innovation, and internationalization while ensuring quality assurance in e-learning aligned with global standards. This move positions Alexandria University as a leader in educational transformation, preparing students for future challenges.

<https://adip.alexu.edu.eg/index.php/en/>

Virtual Labs

- Virtual Labs were established in Alexandria University to give the opportunity for instructors and their students to practice various kinds of labs remotely without being physically present in the lab. Virtual Labs are 3D virtual labs for students to practice physics, biology and chemistry lab Experiments (attached example of the system used).





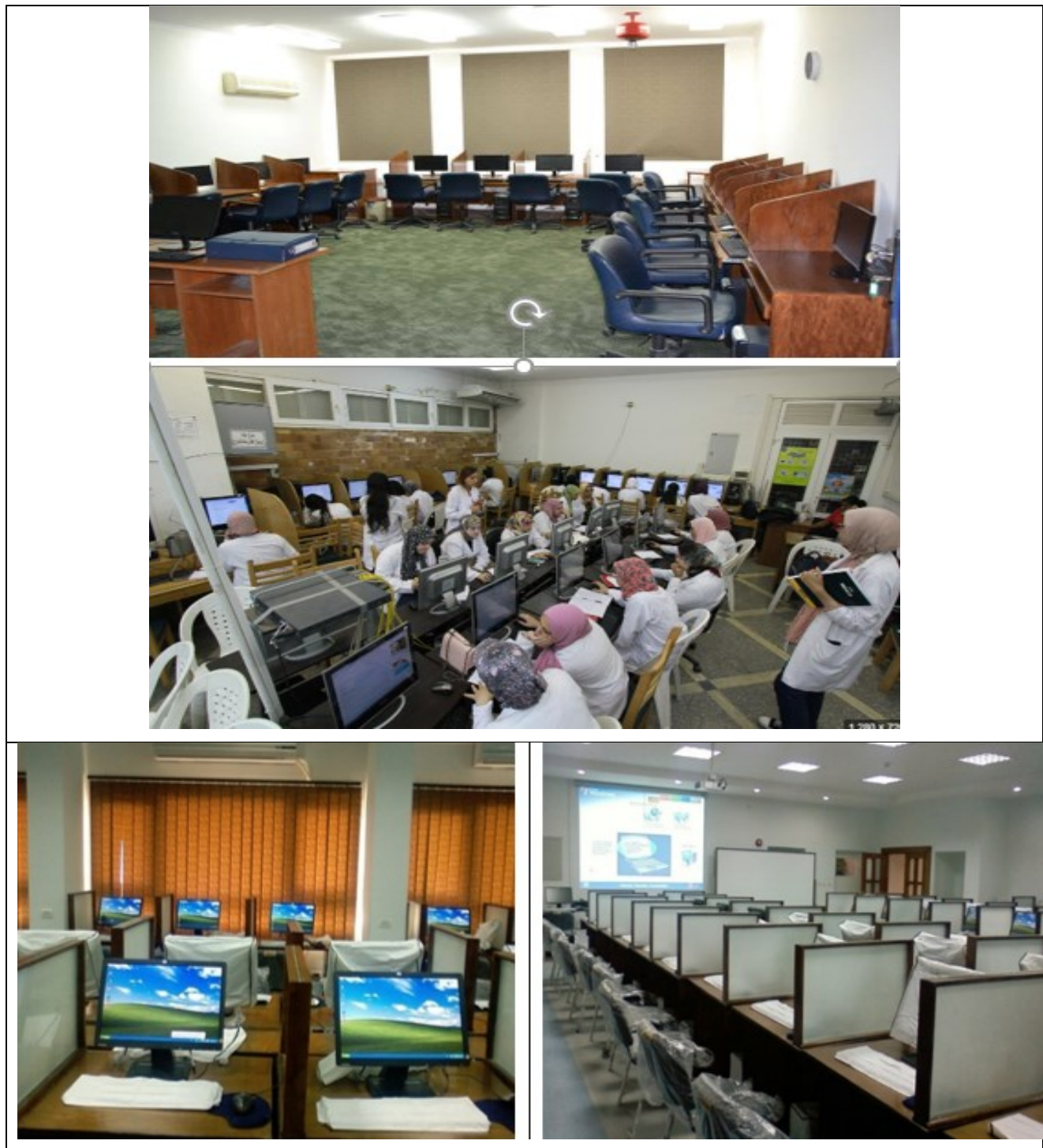
The collage displays the ProxLab interface across eight different views:

- Dashboard:** Overview of system statistics including student attempts, total courses, experiments, users, and administrators.
- Experiments List:** A list of available experiments categorized by subject (Physics, Chemistry, Biology).
- Instructors List:** A table listing available instructors with their names, email addresses, and phone numbers.
- Virtual Lab Environment:** Two 3D rendered views of a laboratory setting. One view shows a robot guide and a smartboard with a lab manual and exercise instructions. The other view shows a robot guide and a smartboard displaying experiment settings, including a time timer.

B. Interactive Learning:

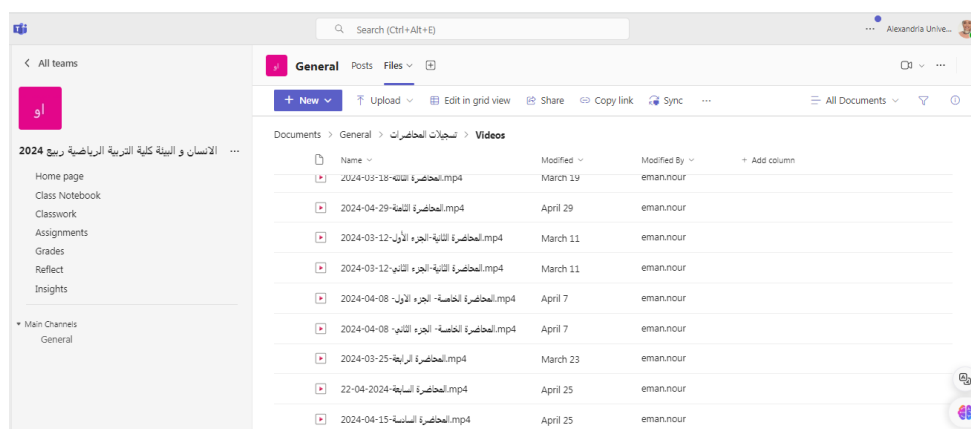
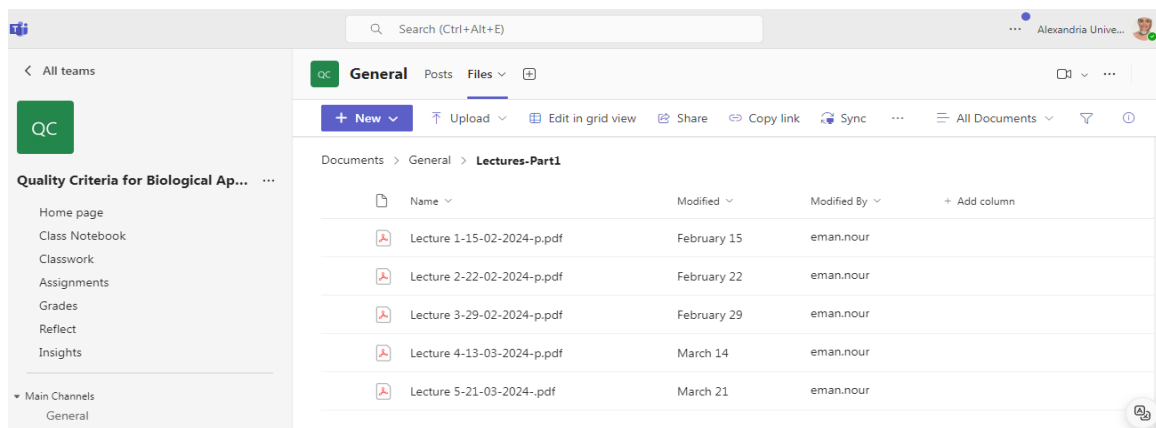
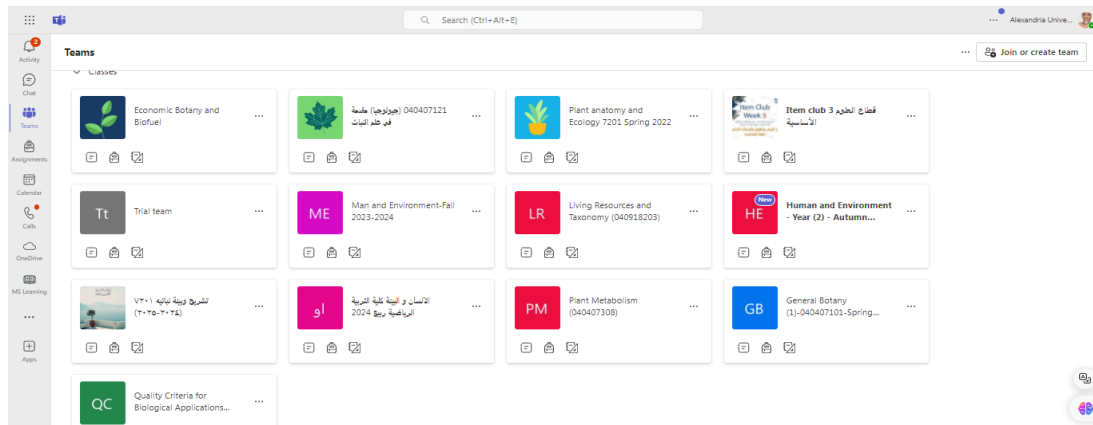
- **Smartboards and interactive whiteboards** allow for engaging lessons, combining visuals, text, and interactive elements.

ICT Classrooms in Alexandria University



C. Collaboration and Communication:

- Tools like **Thingi**, **Google Classroom**, **Microsoft Teams**, and **Zoom** facilitate online collaboration, discussions, and group projects.



D. Virtual Classrooms and Online Learning:

- **E-learning platforms** provide flexibility in learning. Students can attend classes remotely, access materials at their convenience, and interact with instructors via forums and chatrooms.



EELU Faculties

-  Faculty of Computers and Information Technology
-  Faculty of Business Administration and Commercial Studies
-  Faculty of Educational Studies



The Egyptian University for E-Learning (EELU) is an educational institution that offers online degree programs and courses, utilizing digital platforms to facilitate learning. It aims to provide flexible and accessible education to students across Egypt and beyond, focusing on various academic fields through e-learning technologies. The university has a branch in Alexandria located at the Faculty of Business.

<https://www.eelu.edu.eg/en>

E. Assessment and Evaluation:

- **Automated assessments** help educators quickly grade assignments and provide feedback. ICT tools analyze student performance and offer insights into learning trends.
- Online exams allow for real-time assessment, and data analytics through e-marking can predict student outcomes and areas that need improvement.



The Measurement and Evaluation Unit at Alexandria University, is part of initiatives to develop student assessment and examination systems. It aims to enhance the culture of evaluation methods among all stakeholders in the educational process.

<https://www.alexu.edu.eg/index.php/stdsec/21-arabic/6044-%D9%85%D8%B1%D9%83%D8%B2-%D8%A7%D9%84%D9%82%D9%8A%D8%A7%D8%B3-%D9%88%D8%A7%D9%84%D8%AA%D9%82%D9%88%D9%8A%D9%85-%D8%A8%D8%A7%D9%84%D8%AC%D8%A7%D9%85%D8%B9%D8%A9-mac>

1-E-exam

2- Daily follow-up form for the educational process for the undergraduate studies.

3- Daily follow-up form for the educational process for the potgraduate studies.



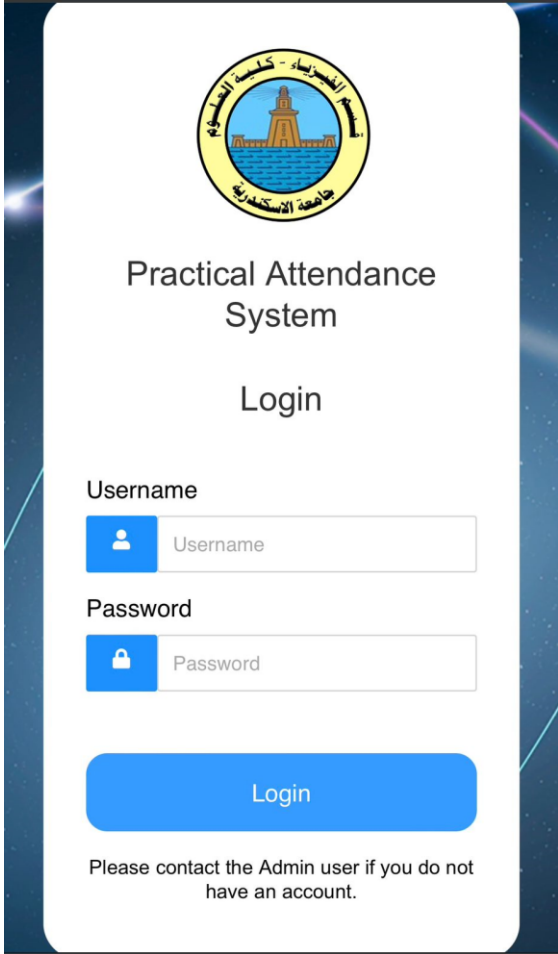
Assessment Center (Alexandria University, Egypt): Weekly follow-up form for the educational process for the undergraduate and postgraduate courses during the semester.



Assessment Center (Alexandria University, Egypt): Weekly follow-up form for the educational process for the undergraduate and postgraduate courses during the semester.

F. Administrative Efficiency:

- ICT systems for the student enrollment and attendance tracking.



Practical Attendance System


Login

Username

Password

Login

Please contact the Admin user if you do not have an account.



Welcome محمد سعيد

Dashboard Attendance / Report / Time Table

Account Type
SUPERVISOR

Courses
2

Sections
3

Sys. Mode
STUDY


Today and Up Coming Events

#	Event	Date	Submitted by
1	امتحان منتصف الفصل الدراسي	16-11-24 22-11-24	محمد سعيد حسن

October 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Copyright © 2024 Created by M.S.Hassan. All rights reserved. Version 3.2.0



List of Students in Section Wednesday (2:00 pm-5:00 pm) - (Group: O) in Week 3

Total Students: 23 Present Students: 19 Excuse Students: 0 Absent Students: 4

#	USID	Name	Attendance	Notes	Status
1	20251503229	محمد هادي فرحاني محمد	Absent		
2	20251503033	محمد هشام عبد النعم عباس فرح ناصر	Present		
3	20251503034	محمد وائل محمد احمد كريمة	Present		
4	20251578111	محمد وائل محمد القرياري	Absent		
5	20251586429	محمد وائل محمد علي عبد الحيد	Present		
6	20251588536	محمد وايد ابراهيم محمد ابراهيم	Present		
7	20251504836	محمد وليد حسين غريب علي حسن	Present		
8	20251588538	محمد ياسر ابراهيم الدسوقي حسن	Present		
9	20251576908	محمد ياسر محمد احمد	Present		
10	20251581612	محمد ياسر محمد عباس	Present		
11	20251581878	محمد يسري لؤي نادر الدين علي	Absent		
12	20251588540	محمد احمد عبد الفتاح بدوي صقر	Present		
13	20251502635	محمد احمد عبد الفتاح علي ابراهيم	Present		
14	20251502983	محمد ايمن حسن محمد	Absent		
15	20251589663	محمد جمال محمد عبد القوي	Present		
16	20251499840	محمد جمال محمد محمد عبد الله	Present		
17	20251603848	محمد عادل محمد احمد محمد	Present		
18	20251589562	محمد علي حسن سليمان	Present		
19	20251609429	محمد علي عبد العظيم محمد	Present		
20	20251588185	محمد عباس محمد عبد الفتاح ابوحنوري	Present		
21	20251503737	محمد فلاح عبد القاري السيد عثمان	Present		
22	20251503335	محمد محمد اسماعيل محمد رشاد	Present		
23	20251586434	محمد محمد فوزي عبد الحفيظ	Present		

Copyright © 2024 Created by M.S.Hassan. All rights reserved. Version 3.2.0

- Monitoring:

Reporting the students' performance of the students through the measurement and evaluation centre.

Remark Quick Stats

File Edit View Tools Help

Grade Wizard Export Report Rep

Data Reports

Reports

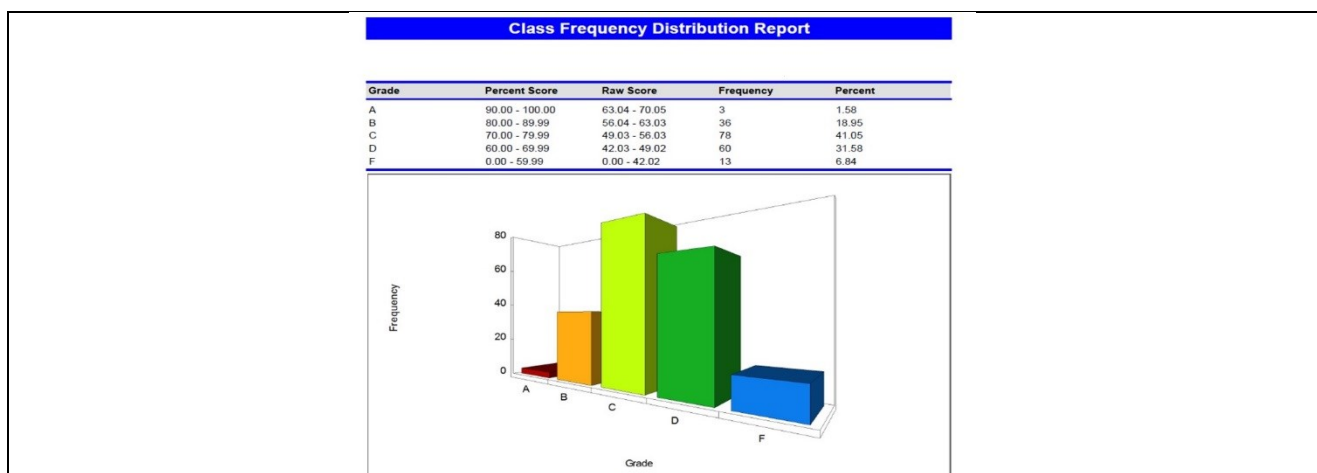
- 101 - Student Statistics Report**
Displays statistical data related to the performance of each student.
- 102 - Comparative Grade Report**
Displays statistical data related to the performance of each student broken down by selected criteria (i.e. demographics).
- 103 - Class Frequency Distribution Report**
Illustrates the dispersion of students over the selected grade scale.
- 104 - Test Statistics Report**
Displays statistics related to the overall test and each defined learning objective.
- 201 - Detailed Item Analysis Report**
Displays statistics related to each question response.

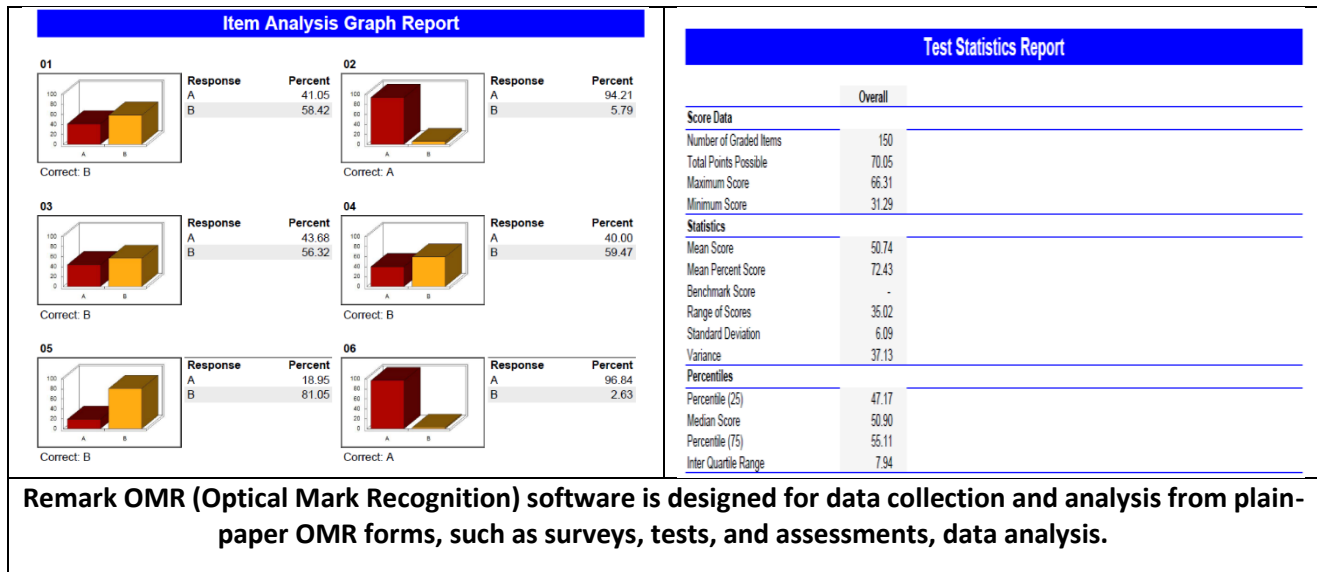
- 203 - Item Analysis Graph Report**
Displays limited response totals and graphs for each question.
- 204 - Condensed Item Analysis Report**
Displays a break down of respondent selections for each item in a condensed format.
- 207 - Test Item Statistics Report**
Displays statistical data related to each graded test question.
- 208 - Crosstabulation Report**
Crosstabulates selected questions by percent or total.
- 301 - Student Grade Report**
Displays individual grade results for each student. (resource intensive)
- 401 - Response Report by Item**
Displays responses from regions, grouped by question.
- 402 - Response Report by Respondent**
Displays responses from regions, grouped by respondent.

Preparing reports to track students' performance

- Evaluation:

Assessment of ICT impact on teaching and learning outcomes





[2] Energy and Climate Change (EC)

Energy Efficient Appliances Usage

Alexandria University intends to realize further energy savings by paying close attention to energy management. All the faculties and institutes of the university realize their own energy-saving potential by means of LED lighting and the deployment of sustainable technology.

Alexandria University Project on using LEDs as Energy-Efficient Bulbs:

Within the framework of the University's keenness to transform into a green, environmentally friendly university that works to enhance its resources and rationalize energy consumption, the Department of Community Service Development has launched a project for the total transformation of the used LED bulbs instead of the fluorescent ones.

The light-emitting diode (LED) bulbs are more efficient, and energy-saving compared to fluorescent bulbs, with a relatively longer life span.

The project has been implemented in phases since 2019 based on the preparation of an inventory of the total numbers needed for all faculties and institutes of the university. The first quarter, the numbers required, which represents the types of 60 cm, 120 cm and 9 watts' bulbs, has been spent and installed, which are almost 30%. In parallel, appropriate measures were taken to dispose of the lost fluorescent lamps through one of the companies concerned with safe disposal. The second step required the purchase and transformation of 37% of the total needs of the faculties and institutes of the university. The third step required the purchase and transformation of 25% of the total needs of the faculties and institutes of the university. During the last phase, the transformation of all remaining LED bulbs was performed (detailed in evidence file 2.1).



Alexandria University Program to reduce Electricity consumption from Air Conditioners and electric devices such as Computers, printers, photocopiers, surveillance cameras.

1. All newly purchased AC are inverter AC to reduce the electricity consumption (attached pdf file).
2. The new electric devices such as Computers, printers, photocopiers, surveillance cameras are energy efficient devices (detailed in evidence file 2.1).
3. All electronic devices must be shut down at night, when not used.
4. Passive Infrared (PIR) Sensors were implemented in some Faculties for motion-activated lighting to detect changes in heat signatures when someone or something moves within the sensor's range. These sensors will be implemented in phases in for all faculties and institutes of the university.
5. Regular Maintenance of all devices.
6. The thermostats of the air conditioner are set at 25°C, and direct sunlight is avoided by using sun protection curtains.

Solar Energy Center at the Faculty of Agriculture (Alexandria University)

Hybrid Renewable Energy Systems to Supply Services in Rural Settlements of Mediterranean Partner Countries.

The services provided by the center:

- 1) **Research and development:** Encouraging applied research on renewable energy at AU and through collaborations with other national and international universities. Development of hybrid systems in renewable energy and its uses in water pumping and water desalination and development of remote and desert areas. Development of research in energy from biomass and waste. Development of thermal uses of solar energy.
- 2) **Consultations:** Various consultations in renewable energy systems, especially hybrid systems, drying and solar heating.
- 3) **Education and Training:** Supporting the renewable energy education at AU. Developing and delivering courses, e-learning, workshops, training courses, and conferences on various renewable energy systems.
- 4) Serving the Egyptian community by providing all renewable energy information to the public.

Equipment at the center:

- 1) The center has many devices for different applications of renewable energy.
- 2) A hybrid system to generate electricity from the sun with a capacity of about 130 kilowatts.
- 3) E-learning courses on the site.

System Application	Solar System power kWp	Air Turbine power	Energy (kWh)
Wadi El-Natroon 1, Photovoltaic cells	7		7000
Wadi El-Natroon 2, Photovoltaic cells	50		50,000
Wadi El-Natroon 1, Air turbines		5	5000
Wadi El-Natroon 2, Air turbines		50	50,000
Abis Campus			130
University Main building			20
	Total Power (kWp)		112,150

Renewable Energy Sources in Campus

The Faculty of Agriculture has 2 renewable energy centers and one center at the main building of the University.

- 1) The renewable Energy Center in Wadi El-Natroon.

There are two units from the network:

- 7 kw hybrid unit for photovoltaic cells and 5 kw for air turbine.
- 50 kw hybrid unit for photovoltaic cells and 50 kw for air turbines (under maintenance).

They are all used in student training and research for graduate students and faculty members.

- 2) The renewable Energy Center at the Agriculture Research and Experiments Station in Abis Campus.
 - The capacity of the center is 130 kw/h connected to the electricity grid.
- 3) The renewable Energy Center at the main building of the University.
 - The capacity of the center is 20 kw/h connected to the electricity grid.



Solar Energy Center at the Faculty of Agriculture (Alexandria University)



Solar Energy Center at the Faculty of Agriculture (Alexandria University)

The Faculty of Science:

Research Project: Development and implementation of decentralized solar-energy-related innovative technologies for public buildings, in the Mediterranean Basin

System Application	Number of modules	Solar System kWp	Power (kWh)
--------------------	-------------------	---------------------	----------------

BIPV façade brise-soleil	120	17.28	26350
BIPV garden pergola	90	8.1	23270
BIPV roof pergola	30	4.1	
Total Power (kWh)			49,620

Environmental Benefits

Life time CO ₂ emission savings	556,935 kg
Life time SO ₂ emission savings	2,004 kg
Life time NO _x emission savings	668.322 kg



The Faculty of Science:

Research Project: Production of Bio-Diesel from Algae in Selected Mediterranean Countries: Med-Algae Project

The project objective is to explore:

- 1- The development of microalgae-based biodiesel production and other valuable products in six Mediterranean countries (Cyprus, Egypt, Greece, Italy, Lebanon and Malta).
- 2- The current level of technology, the relevant market structure, and the governmental and environmental boundaries will be mapped in the participating countries, in order to identify the most promising strategies in each country.

Studied Strains *Chlorella* sp was chosen to be the common examined strain between the partners. In addition, native algal strains from each participant country were isolated and identified.

Both *Chlorella* sp and locally isolated microalgae have been examined under lab and out-door scale.

University administration building

The project of "supplying, installing and operating the photovoltaic solar plant with a capacity of 20.1 kW above the administration building of Alexandria University in Shatby was launched by the Arab Renewable Energy Company, on 2/14/2020. The capacity of the station per month is 20.1 kW, while the capacity consumed from the building is 255 kW / month, meaning that the station provides within 8% of the total monthly consumption. Total Solar energy per year = **241.2 KWh**.

Higher Institute of Public Profession

The Institute has two initiatives to exploit solar energy at the Institute through two units of photovoltaic cells (50 watts each) that are currently installed and are exploited to provide the electrical energy necessary to operate the Ultra-Filtration unit located in one of the laboratories of the Department of Materials Science for educational purpose. Moreover, five units of photovoltaic cells (260 watts each) were installed to operate the discussion room at the Institute

and to provide it with sufficient energy for lighting purposes and to operate its display device. Total Solar energy per year = **360 KWh**.

The Faculty of Engineering

The implantation of the new Solar Station is completed. The implementation of the solar photovoltaic panels was performed in December 2022 with a capacity of **220** kilowatts on the 2000 m² roof top of the building of the Mechanical Engineering Department at the Faculty of Engineering.

Alexandria University have generalized this initiative in some of the faculties of Alexandria University in gradual stages.



Solar photovoltaic with a capacity of 220 kilowatts on the 2000 m² roof top of the building of the Mechanical Engineering Department at the Faculty of Engineering

Renewable energy production per year

No	Renewable Energy	Production (in kWh)
1	Solar panel	$57,150 + 49,620 + 241.2 + 360 + 220 = 107,591.2$
2	Windmill	55,000
	Total	162,591.2

The European Union project to convert several buildings of Alexandria University into green buildings by reducing energy consumption in addition to establishing solar-powered power stations in 2023-2024



- In light of the keenness to rationalize energy consumption in university buildings and the general trend to increase the percentage of reliance on new and renewable sources in electricity production, and in cooperation with the European Union, the European Union funding was accepted for a project to transform some buildings of Alexandria University into green buildings by reducing energy consumption in addition to constructing Electrical power stations powered by solar energy on the roofs of some qualified faculty and institute buildings suitable for this purpose.
- Accordingly, three buildings belonging to the university's faculties were chosen as a first stage to study the feasibility of applying the project to them in terms of the building's ability to bear the weight of solar stations to produce electricity, as well as studying the spaces available for building these stations and the extent of those spaces' exposure to solar radiation throughout the day. The opportunities available to reduce reliance on usual energy sources were also studied in terms of using more efficient lighting, increasing reliance on natural lighting during the day, and reducing the building's air conditioning loads.
- After research and review, the specialized scientific programs will be developed in the Faculty of Engineering, the Faculty of Education building within the Literary faculties Complex, and the Manchester Building in the Faculty of Medicine, which were chosen due to the recent construction of these buildings and their ability to accommodate the

proposed development in terms of the electrical load network and the development of air conditioning systems and water heating systems used in laboratories and bathrooms.

- These buildings were visited and their suitability for the project was evaluated. The current electricity consumption and the possibility of covering these loads with electricity generated from solar energy were studied. The roof areas facing south and suitable for establishing solar stations were inspected and raised. The available roof area in the Specialized Scientific Programs Building at the Faculty of Engineering, Alexandria University, was 2,400 square meters. It can be used to create a solar station with an area of 1,000 square meters with a capacity of **120 kilowatts**, so that the station will be able to generate **360 megawatt hours** of electricity annually. As for the Faculty of Education building, the total area of the building was 4,000 square meters, and the appropriate spaces for building the station accommodate 1,000 square meters of solar cells with a capacity of **120 kilowatts**, so that the station is capable of generating **360 megawatt hours** of electricity annually, and for the Manchester building at the Faculty of Medicine, 1,200 square meters is capable of accommodating a solar power station with an area of 800 square meters. With a capacity of **96 kilowatts**, the station is capable of generating **288 megawatt hours** of electricity annually. These stations also contribute to reducing carbon dioxide emissions by a total of approximately 214 tons annually. The total expected cost of the project is about 300,000 euros.
- The time to recover the capital was estimated through providing the electricity consumed in the three buildings for approximately seven years from the date the stations entered service at full capacity, considering the periodic maintenance necessary to continue the station's operation with the greatest possible efficiency. Detailed reports were also prepared for each building and submitted to the general coordinator of the project, for review and to take the necessary steps to start this vital project, which is an important step in strengthening the efforts of the Egyptian state towards switching to renewable energy and reducing dependence on fossil fuels that have a negative impact on the environment.



The European Union project to convert several buildings of Alexandria University into green buildings by reducing energy consumption in addition to establishing solar-powered power stations: the Specialized Scientific Programs Building at the Faculty of Engineering, the Faculty of Education Building within the Literary Colleges Complex, and the Manchester Building at the Faculty of Medicine.

New European Union Project for Renewable energy production (Solar panels)

No	Location	Production (in kWh)
1	Faculty of Engineering	360,000
2	Faculty of Education	360,000
3	Faculty of Medicine	288,000
	Total	1,008,000

The total Renewable energy production per year in Alexandria University after the implementation of the European Union project to convert several buildings of Alexandria University into green buildings

No	Renewable Energy	Production (in kWh)
1	Solar panel	$57,150 + 49,620 + 241.2 + 360 + 220 = 107,591.2$
2	Windmill	55,000
3	New Solar panels in 2023-2024	$360,000 + 360,000 + 288,000$
	Total	1,170,591.2

Alexandria University new initiative is to use all the roofs of Alexandria University buildings that are suitable for the implantation of the new Solar Station is in progress.

Smart Building Implementation:



Smart Building in Alexandria University



No.	Name	Place	automation		safety				energy		water		Indoor environment				lighting				Building Area (m ²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
1	University Alexandria; Abis Campus, Buildings 1-11	Alexandria, Egypt			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	667,730.988
2	University administration building	Alexandria, Egypt	X		X	X			X	X	X	X	X	X	X	X	X	X	X	X	1940
3	Faculty of Physical Education for Boys	Alexandria, Egypt	X		X	X			X	X	X	X	X	X		X	X	X	X	X	113311.93
4	Faculty of Physical Education for Girls	Alexandria, Egypt	X		X	X			X	X	X	X	X	X		X	X	X	X	X	2891
5	The medical complex	Alexandria, Egypt	X		X	X			X	X	X	X	X	X		X	X	X	X	X	91216
6	Faculty of Science in Horia Street	Alexandria, Egypt	X		X	X			X	X	X	X	X	X		X	X	X	X	X	22197
7	Faculty of Science in Moharram Bek	Alexandria, Egypt	X		X	X			X	X	X	X	X	X		X	X	X	X	X	5485
8	Faculty of Engineering	Alexandria, Egypt	X		X	X			X	X	X	X	X	X		X	X	X	X	X	111034
9	Campus of Humanities and Social Sciences	Alexandria, Egypt	X		X	X			X	X	X	X	X	X		X	X	X	X	X	80707
10	Faculty of fine Arts	Alexandria, Egypt	X		X	X			X	X	X	X	X	X		X	X	X	X	X	2569
11	Faculty of Specific Education	Alexandria, Egypt	X		X	X			X	X	X	X	X	X		X	X	X	X	X	1194
12	Faculty of Early Childhood Education	Alexandria, Egypt	X		X	X			X	X	X	X	X	X		X	X	X	X	X	1407
13	Medical Research Institute (Horia Street - Smouha)	Alexandria, Egypt	X		X	X			X	X	X	X	X	X		X	X	X	X	X	2500

14	Higher Institute of Public Profession	Alexandria, Egypt	X		X	X	X	X	X	X	X	X	X	X	X	700
15	University land in Smouha (College of Nursing - Children's Hospital - Faculty members residences)	Alexandria, Egypt	X		X	X	X	X	X	X	X	X	X	X	X	105218.22
16	Land of Mouwasat Hospital	Alexandria, Egypt	X		X	X	X	X	X	X	X	X	X	X	X	20234.27
17	Institute of Graduate Studies and Research	Alexandria, Egypt	X		X	X	X	X	X	X	X	X	X	X	X	2764
18	Faculty of Agriculture Saba Pasha	Alexandria, Egypt	X		X	X	X	X	X	X	X	X	X	X	X	144200.934
Total																1,377,300.34

————— Please compile one row for each building (or homogeneous part of it) by ticking with a "X" for each requirement —————

Green buildings of Alexandria University are designed to reduce environmental impact through efficient use of resources and sustainable practices. The main elements of green building include:

- Site Selection,
- Landscaping and plantations,
- Water Efficiency (Water Conservation, Rainwater Harvesting, and Greywater Recycling),
- Energy Efficiency (Integrating Renewable Energy, and Lighting systems: Installing energy-efficient lighting systems such as LED)
- Waste Management (waste reduction, and composting).



Applying green building concepts in the Faculty of Engineering - Alexandria University in 2020.

The buildings of the Faculty of Engineering - Alexandria University were chosen to be the nucleus from which to implement green building concepts regarding the general vision for applying environmentally friendly green building requirements to the Faculty of Engineering buildings (Report is attached in evidence file 2.3).

In the report, the faculty buildings were studied, and the summary of the report was as follows:

1. Mechanical Engineering Building: Complies with green building requirements (LEED) with the silver category.
2. Preparatory building: conforms to green building requirements (LEED) with the silver category.
3. Administration building: It does not currently comply with green building requirements (LEED), but it is possible with simple modifications to adopt it.
4. Electrical Engineering Building: It does not currently comply with green building requirements (LEED), but it is possible to adopt it with simple modifications.

After evaluating the Faculty of Engineering buildings, the elements of Green Building Implementation was considered in all building's maintenance activity and in the construction of new buildings.

Elements of Green Building Implementation as Reflected in all new construction and renovation policies:

Green building implementation in new construction and renovation policies focuses on several key elements designed to enhance sustainability, reduce environmental impact, and promote energy efficiency. These elements are typically reflected in guidelines and frameworks, such as LEED (Leadership in Energy and Environmental Design) or other local and international standards.

1. Energy Efficiency

- Integrating solar and wind energy sources into building design reduces reliance on non-renewable resources.
- Installing systems that optimize ventilation with minimal energy consumption.
- Automated lighting systems that respond to occupancy or time of day.
- As for energy, all the buildings have solar energy generation cells to provide part of the building's needs, which are estimated at about 45%, in addition to using energy-saving lamps (LED).
- The public site lighting poles are powered by solar energy.

2. Sustainable Materials: Incorporating materials like recycled steel, concrete, or reclaimed wood.

3. Indoor Environmental Quality

- Maximizing the use of daylight to reduce artificial lighting and improve occupant well-being.
- Ensuring adequate ventilation and using non-toxic building materials to maintain clean indoor air.
- Designing spaces to maintain comfortable temperatures naturally through insulation and proper orientation.

4. Site Selection and Sustainable Landscaping: The area of the project is 160 acres (667,730.988 m²), a general site for educational buildings, and 120 acres are complementary activities. The percentage of green areas and lake is about 52% in addition to 25% streets and lanes.

5. Water Efficiency and Reduction

- Water-saving plots are used, which will reduce water consumption by about 30%. The sewage water will be treated and reused in the irrigation of green areas in the project.
- Rainwater is collected in the main lake and used for irrigation.
- The use of plants with few water rationed plants to reduce irrigation needs in addition to absorbing quantities of rainwater to reduce the severity of rain spells.
- Air conditioning water collection and reuse unit in Faculty of Engineering.
- Wastewater treatment unit at the Faculty of Engineering.
- Reusing wastewater from sinks, showers, and laundry for irrigation or flushing toilets.
- Using drip irrigation and other systems that minimize water use.

6. Sustainable Transportation: Proximity to Public Transport: Locating buildings near public transit hubs to reduce the need for private vehicle use.

Total Building Area

$$\frac{\text{total building area}}{\text{total area}} \times 100\%$$

Total Building Area:

$$\frac{2,385,538.83 \text{ m}^2}{8,083,208.27 \text{ m}^2} \times 100\% = 30\%$$

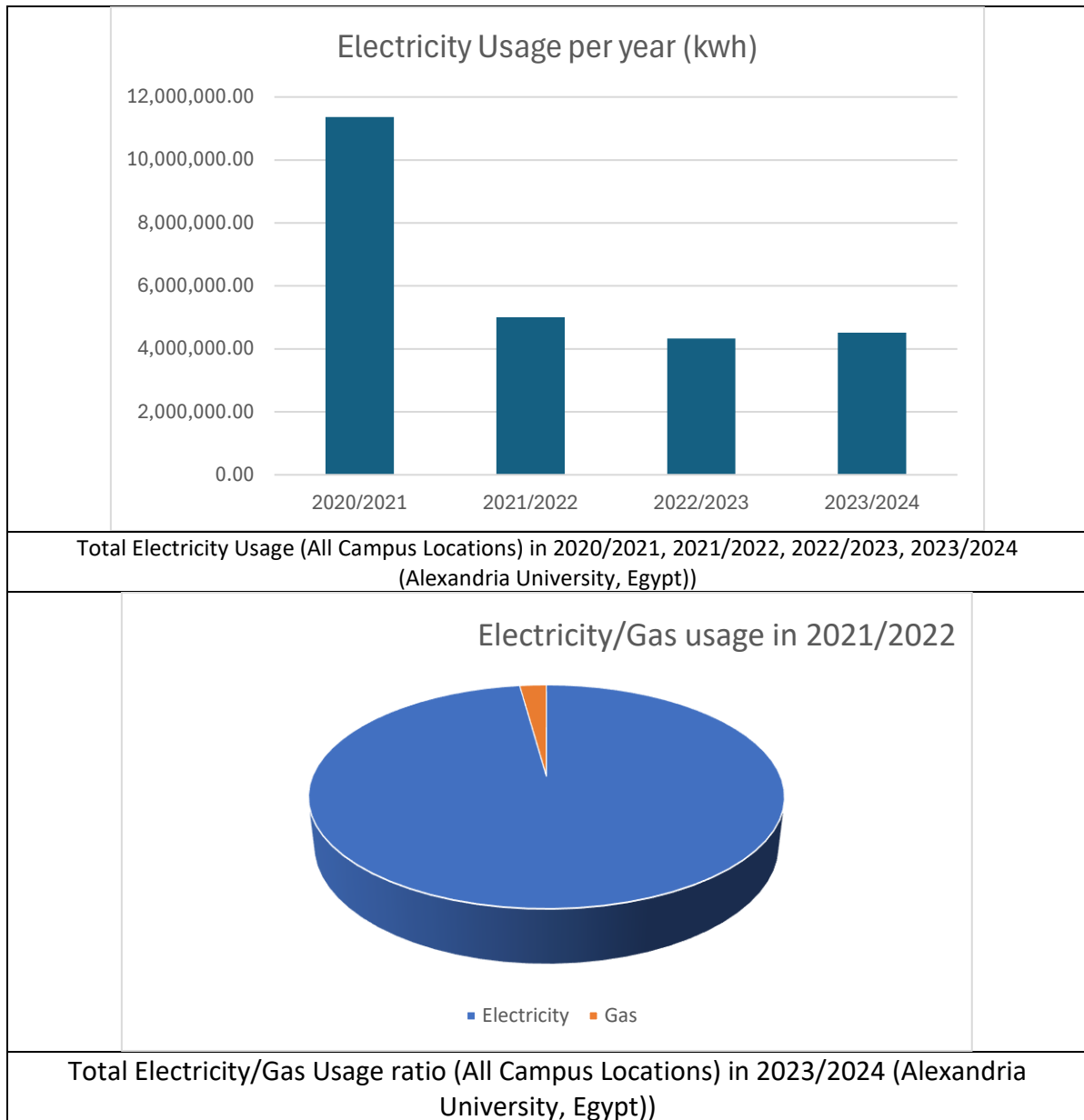
Smart building implementation

$$\frac{\text{total smart building area}}{\text{total building area}} \times 100\%$$

Smart building implementation

$$\frac{1,377,300.34 \text{ m}^2}{2,385,538.83 \text{ m}^2} \times 100\% = 57.7\%$$

Electricity Usage per Year (in Kilowatt hour)



The total electricity consumption of Alexandria University for the academic year 2023/2024 is **4519154.69** kilowatts per hour. Total electricity use increased slightly compared to 2023 (**4329779.781** kilowatts per hour) The total electricity usage increased slightly by 1.0437% compared to year 2022/2023. Which is not a significant increase. The total gas use on the Alexandria University campus in the year 2023/2024 is **8,784 m³** (99,809 KWh), which decreased almost of 35% compared to the academic year 2022/2023, where the total gas used was **13471 m³** (153,066 kWh).

1,170,591.2 kWh / 4,519,154.69 kWh (Electricity usage) = 25.9%

Greenhouse gas emission reduction program

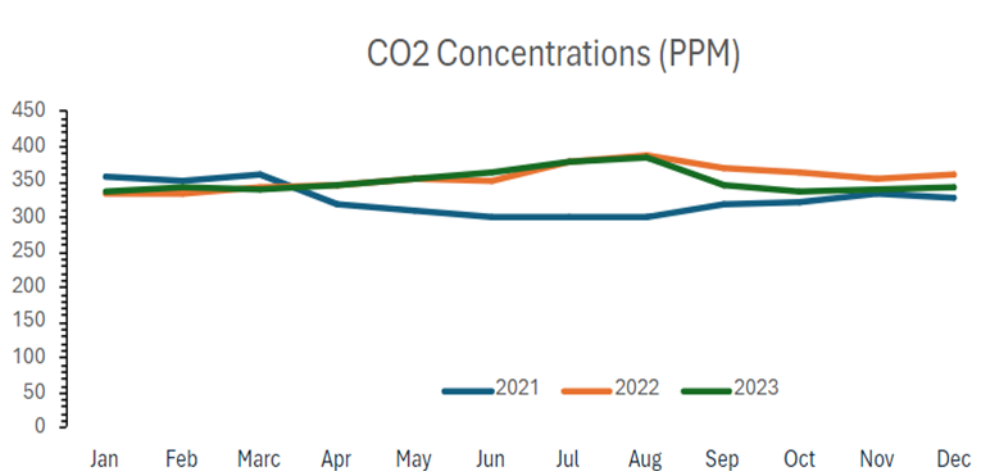
Table: Greenhouse gas emission sources at Alexandria University Campus

	Emission data	Definition
Scope 1	Stationary combustion	Stationary combustion refers to the burning of fuels to produce electricity, steam, and heat in a fixed location, such as boilers, burners, heaters, kilns, and engines.
	Mobile combustion	Burning of fuels by institution-owned transportation devices
	Process emissions	Direct greenhouse gas (GHG) emissions from physical or chemical processes rather than from fuel combustion
	Fugitive emissions	Hydrofluorocarbon releases during the use of refrigeration and air conditioning equipment and methane leakage from natural gas transport
Scope 2	Purchased electricity	Indirect GHG emissions result from the generation of the electricity purchased and used by the institution
	Energy Efficiency	Buildings and Infrastructure:
	Renewable Energy Deployment	Solar and Wind Power: increasing the share of renewable energy in the energy mix.
Scope 3	Waste	Indirect GHG emissions resulting from the incineration or landfill of your institution's solid waste
	Purchased water	Indirect GHG emissions resulting from the generation of water supply purchased and used by the institution
	Commuting	Indirect GHG emissions resulting from regular commuting from and to institutions by students and employees (i.e., reducing regular commuting by using shared vehicles, carpooling)
	Air travel	Indirect GHG emissions resulting from air travels paid by institutions (i.e., reducing the number of staff air travel opportunities)
Scope 4	Innovation and Technology Development	Investment in Green Technologies: Support research and development in innovative technologies like hydrogen fuel cells, battery storage, and artificial photosynthesis to capture and utilize carbon.
Scope 5	Digitalization	Promote digital solutions
Scope 6	Public Awareness and Behavioral Change	Educational Campaigns: Raise awareness about the importance of reducing GHG emissions and the role individuals can play in everyday actions, such as reducing energy use, recycling, and adopting sustainable transport.
Scope 7	International Collaboration and Partnerships	Collaborate with other countries and institutions to share knowledge, technology, and expertise on GHG emission reduction.

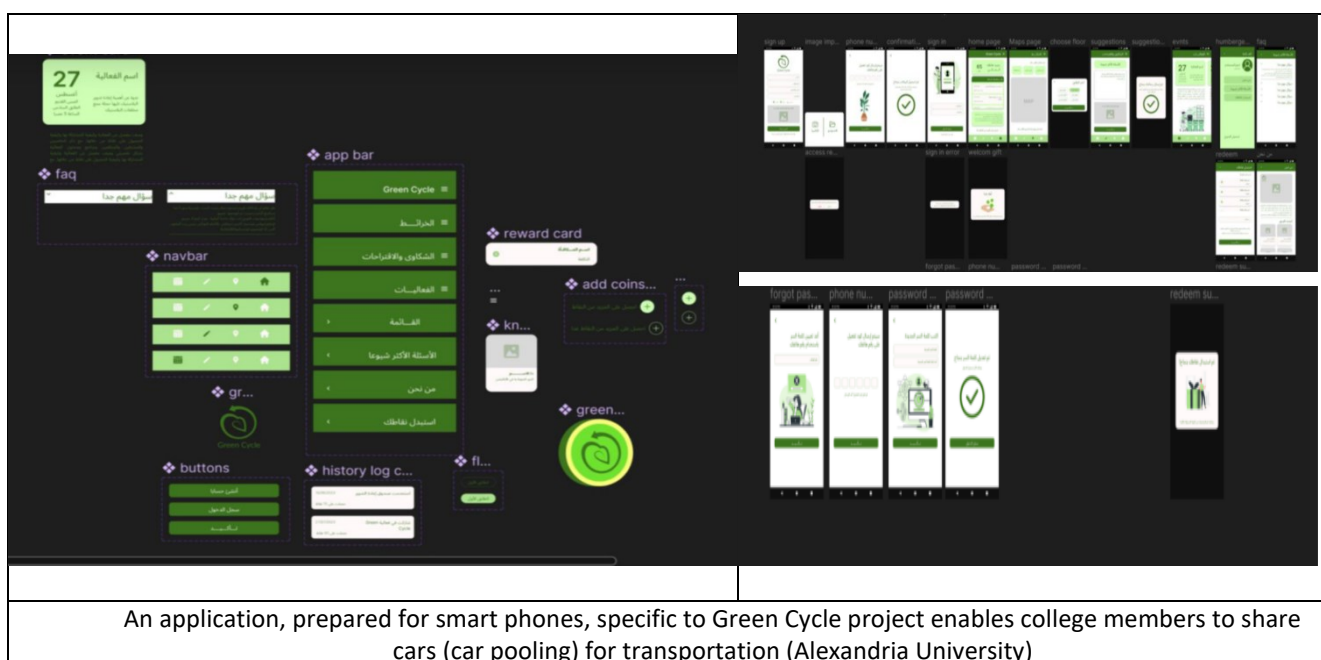
Scope 1, Stationary combustion and Mobile combustion: These GHG sources are reduced by Ride Share using the University Shuttle and Carpool, by the decrease of burning of fuels. Regular vehicle maintenance to reduce greenhouse gas emissions. In addition, the use of bicycles reduces the GHG source. Reducing the individual carbon footprint of students, faculty members and college employees by developing an application, prepared for smart phones. The Green Cycle project was organized by Faculty of Pharmacy- Alexandria University that enables faculty members to share cars for transportation in a safe manner in order to reduce carbon emissions resulting from car exhausts. Is project is a succesful project which was performed as a prototype at the Faculty of Pharmacy. Alexandria University's plan is to establish the Green Cycle project in all Faculties.

Scope 1, Fugitive emissions: All new buildings in Abis campus are designed with large windows to get maximum benefit from daylight and natural ventilation. In addition, all University buildings have good natural ventilation and daylight. This will reduce the use air conditioning equipment and accordingly decrease GHG.

- **Alexandria University** has the lead and leadership in establishing the environmental sector and community service, and it has an effective role in preserving the environment in Alexandria and the neighboring governorates. The university, with its various colleges and institutes, is committed to implementing Law No. 4 of 1994 and its regulations. The university has environmental records for most colleges and institutes, and it also conducts environmental impact assessment studies for all its projects by consultants accredited by the Ministry of Environment.
- The university is also environmentally friendly and disposes of waste in a safe manner, as it has contracts with transportation companies for hazardous, medical, non-hazardous, solid and liquid waste.
- The university also monitors greenhouse gases and suspended and inhaled solid particles. It is committed to preserving the environment from emissions that may lead to environmental pollution and then climate change. The monitoring is carried out by faculty members who hold consultant certificates for self-monitoring of facilities, as well as environmental measurements in laboratories accredited by the Environmental Affairs Agency.
- Carbon dioxide has been monitored in Faculty of Science building over the past three years for 24 hours a day and the monthly averages were presented in the following graph:



This figure shows the monthly average CO₂ concentration over three years (2021-2023). It is noted that CO₂ concentration decreased in the period from March to September 2021, as a result of the closure during the Corona pandemic. It is worth noting that carbon dioxide emissions during 2022 and 2023 were within the threshold limits permitted by Law 4 of 1994 due to the university's efforts to prevent burning and the use of natural gas and solar energy.



Scope 2, Purchased electricity: In light of the keenness to rationalize energy consumption in university buildings and the general trend to increase the percentage of reliance on new and renewable sources in electricity production, and in cooperation with the European Union, the European Union funding was accepted for a project to transform some buildings of Alexandria University into green buildings by reducing energy consumption in addition to constructing Electrical power stations powered by solar energy on the roofs of some qualified faculty and institute buildings suitable for this purpose.

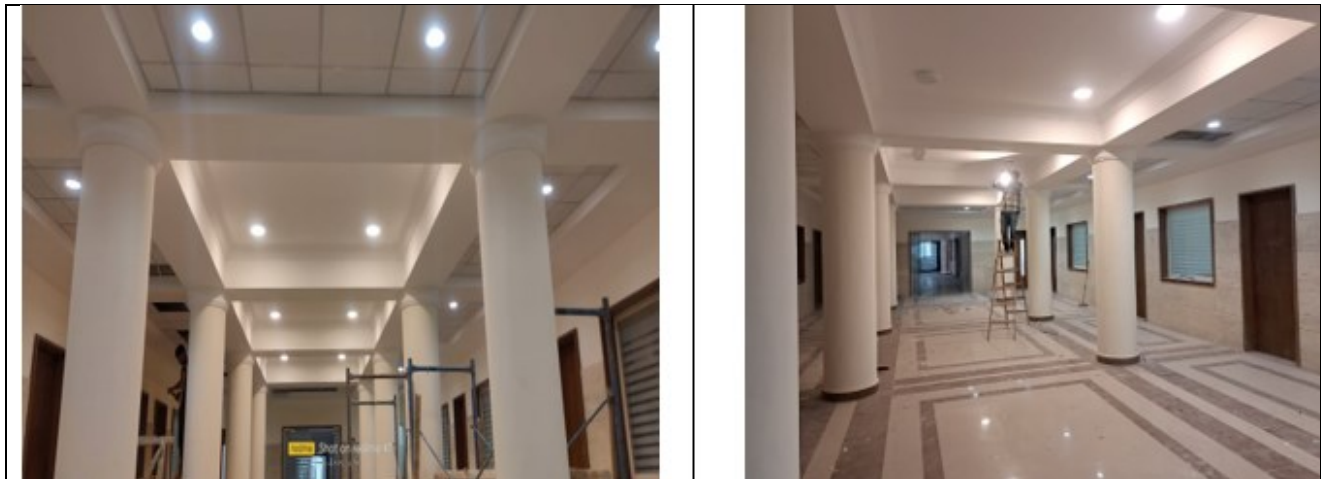
- Accordingly, three buildings belonging to the university's faculties were chosen as a first stage to study the feasibility of applying the project to them in terms of the building's ability to bear the weight of solar stations to produce electricity, as well as studying the spaces available for building these stations and the extent of those spaces' exposure to solar radiation throughout the day. The opportunities available to reduce reliance on usual energy sources were also studied in terms of using more efficient lighting, increasing reliance on natural lighting during the day, and reducing the building's air conditioning loads.
- After research and review, the specialized scientific programs will be developed in the Faculty of Engineering, the Faculty of Education building within the Literary faculties Complex, and the Manchester Building in the Faculty of Medicine, which were chosen due to the recent construction of these buildings and their ability to accommodate the proposed development in terms of the electrical load network and the development of air conditioning systems and water heating systems used in laboratories and bathrooms.
- These buildings were visited and their suitability for the project was evaluated. The current electricity consumption and the possibility of covering these loads with electricity generated from solar energy were studied. The roof areas facing south and suitable for establishing solar stations were inspected and raised. The available roof area in the Specialized Scientific Programs Building at the **Faculty of Engineering**, Alexandria University, was 2,400 square meters. It can be used to create a solar station with an area of 1,000 square meters with a capacity of **120 kilowatts**, so that the station will be able to generate **360 megawatt hours** of electricity annually. As for the **Faculty of Education** building, the total area of the building was 4,000 square meters, and the appropriate spaces for building the station accommodate 1,000 square meters of solar cells with a capacity of **120 kilowatts**, so that the station is capable of generating **360 megawatt hours** of electricity annually, and for the Manchester building at the **Faculty of Medicine**, 1,200 square meters is capable of accommodating a solar power station with an area of 800 square meters. With a capacity of **96 kilowatts**, the station is capable of generating **288 megawatt hours** of electricity annually. These stations also contribute to reducing carbon dioxide emissions by a total of approximately 214 tons annually. The total expected cost of the project is about 300,000 euros.

As for energy, all the new buildings in Abis Campus have solar energy generation cells to provide part of the building's needs, which are estimated at about 45%, in addition to using energy-saving lamps (LED). In addition, the public site lighting poles are powered by solar energy.

All the faculties and institutes of the university realize their own energy-saving potential by means of LED lighting and the deployment of sustainable technology. Alexandria University have generalized this initiative in some of the faculties of Alexandria University in gradual stages.

Alexandria University Program to reduce Electricity consumption from Air Conditioners and electric devices such as Computers, printers, lab apparatus.

1. All newly purchased AC are inverter AC to reduce the electricity consumption.
2. The new electric devices such as Computers, printers, lab apparatus are energy efficient devices.
3. All electronic devices must be shut down at night, when not used.
4. Regular Maintenance of all devices.
5. The thermostats of the air conditioner are set at 25°C, and direct sunlight is avoided by using sun protection curtains



Energy Efficient Appliances Usage: Use of LED lighting and lamps (New Abbas Campus, Alexandria University)

Scope 3, Waste: Implementing environmental awareness programs at the beginning of study on policies that can be followed to reduce waste production on campus, and to reduce the consumption of paper, plastic, and metals on college campuses.

Alexandria university program to reduce the use of paper and plastic in campus.

- 1) Development of electronic archiving system; the university faculties and the main campus are moving toward the electronic archiving system to reduce paper consumption.
- 2) University decree to reduce the use of paper in the campus:
 - 2.1: The president decree to use the e-mails for communications inside the campus and between the university main campus and all the other campuses.
 - 2.2: In the situations, the university or any of its faculties need to print the official documents; this has to be on recycled paper (2 faces copy).
 - 2.3: The University formulated a community for administrative reform to minimize the administrative processes and decrease the use of papers except in who are relevant to financial process.
- 3) Digital transformation toward electronic exams to reduce paper consumption.
- 4) Digital transformation toward electronic course to reduce paper consumption and books printing.
- 5) Electronic administration of student courses by about 50% instead of written administration to reduce paper consumption.

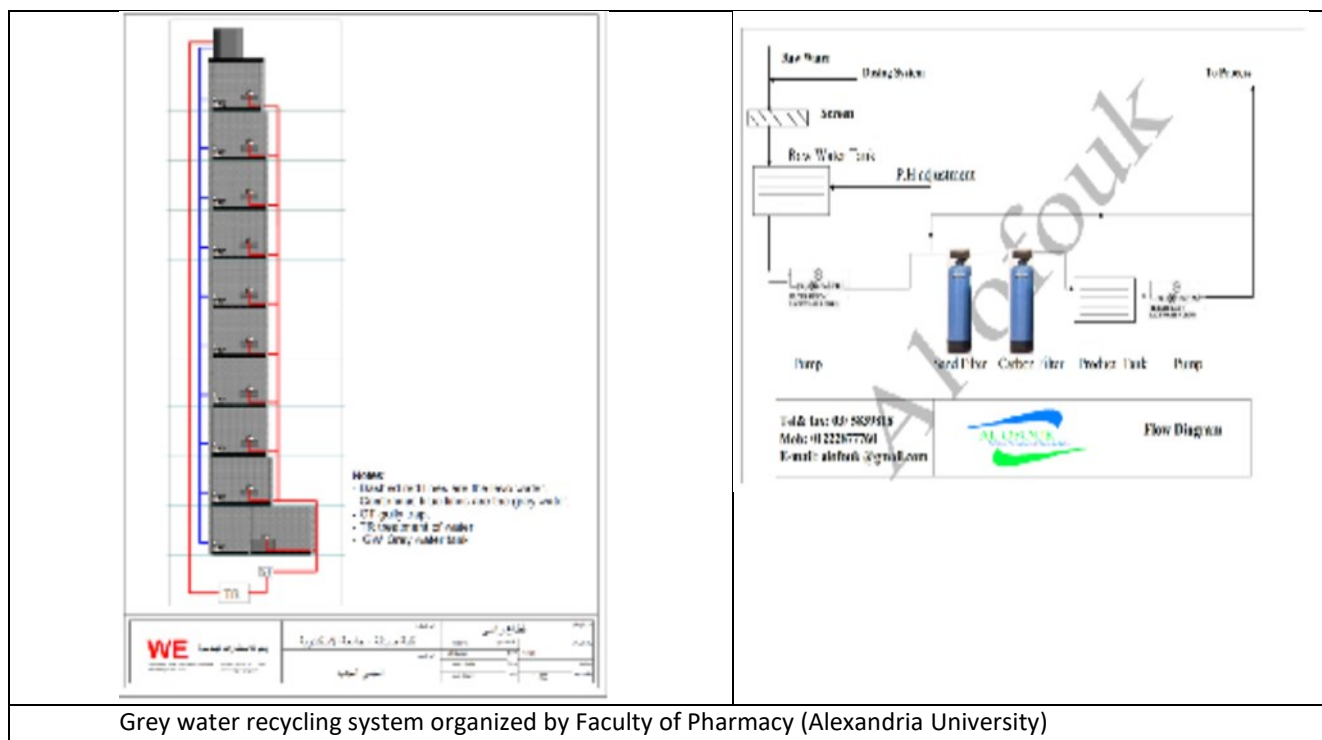


Scope 3, purchased water: The University has applied a strategy in the faculties to decrease water consumption through installation of special parts on water taps, showers, toilette, and bathroom bidet which can conserve about 50% of water consumption. Water saving devices are used instead of traditional devices. For example, the use of a hand-washing faucet

In addition, a policy for the reduction of purchased water was implemented in Abis Campus 1) Water-saving plots are used, which will reduce water consumption by about 30%. The sewage water will be treated and reused in the irrigation of green areas in the project. 2) Rainwater is collected in the main lake and used for irrigation. 3) The use of plants with few water rationed plants to reduce irrigation needs in addition to absorbing quantities of rainwater to reduce the severity of rain spells.

Scope 3, Commuting: These GHG sources are reduced by Ride Share using the University Shuttle and Carpool, by the decrease of burning of fuels. In addition, the use of bicycles reduces the GHG source. An application was developed for smart phones, by the students at the Faculty of Pharmacy- Alexandria University that enables faculty members to share cars for transportation in a safe manner (Green Cycle project). In addition, regular vehicle maintenance is performed to reduce greenhouse gas emissions.

Scope 3, Air travel: The University usually support the travel of Faculty members and student once every two years for attending conferences. Lately, since the covid 19 pandemic, and the increase in air travel Tickets, the support of travel was stopped.



There are also many research projects to reduce greenhouse gas emissions, including, for example:

1. Monitoring pollutants using satellites (a project funded by the Academy of Scientific Research and Technology 2021).
2. Confronting rampant heat waves and climate change (World Bank financing 2023).
3. Confronting severe air pollution and black cloud episodes (World Bank financing 2023-2024).
4. the research project entitled: Utilizing alternative feed materials to maximize milk and meat productivity and reduce methane production in ruminants, funded by the Science and Technology Fund STDF-DDP No. 18575
5. The research project entitled Safe milk and meat production and greenhouse gas emissions from ruminants fed with the addition of nano-silt, funded by the Science and Technology Fund STDF- Innovation in the period from 2020-2023.

A list of 126 projects which have an impact on the reduction of greenhouse emission and climate change are listed in the evidence file “2.14. Impactful university program(s) on climate change”.

Scope 5: Digitalization, by promoting digital solutions.

The General Framework for Digital Transformation at the University and the Center and Units for Measurement, Evaluation, and E-Learning as a Practical Example of Digital Transformation for that Purpose.

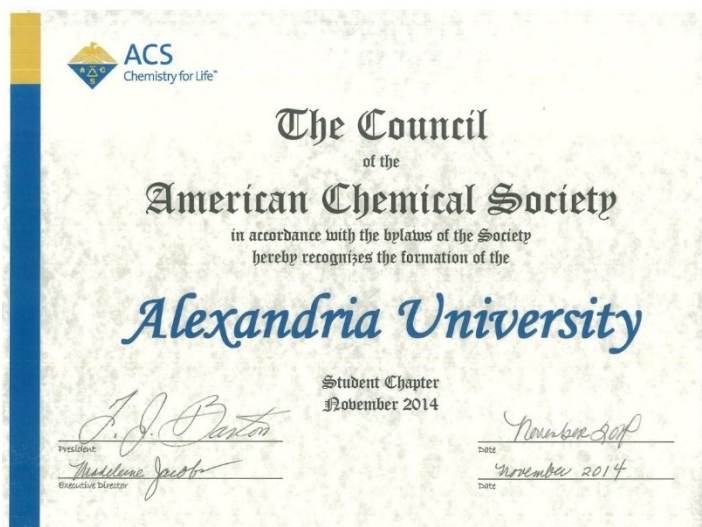
- 1- Alexandria University began its serious efforts to develop processes in preparation for their digitization in 2017, where a committee for development, monitoring, and administrative reform was established to analyze processes, eliminate waste, and conserve university resources. The committee also examined the merging and unification of documents for the various processes at Alexandria University and its faculties. The digital transformation of the measurement and evaluation system at Alexandria University began in 2018.
- 2- The Education Development Projects Management Unit funded four projects before 2018 to establish measurement and evaluation units.
- 3- Three additional projects were funded after 2018 for the digital transformation of evaluation processes in three faculties. The university also completed the digital transformation in the remaining faculties through its own efforts, utilizing resources from the electronic testing project. The total funding for the most recent project was 3,799,519 EGP, and the outcomes have reached an advanced level in areas such as question banks and the use of modern applications in practical exams.



Electronic Exam Halls at the Faculty of Medicine (Alexandria University, EGYPT)

Scope 6: Public Awareness and Behavioral Change through Educational Campaigns. This is accomplished by raising awareness about the importance of reducing GHG emissions and the role individuals can play in everyday actions, such as reducing energy use, recycling, and adopting sustainable transport.

One of the success stories in Alexandria University is the establishment of the International ACS Alexandria University Student Chapter, which contributed significantly since its establishment in November 2014 in the awareness of students and development of skills of the undergraduate and postgraduate students. In addition, to the outreach activity performed for the awareness of school students.



Recognition

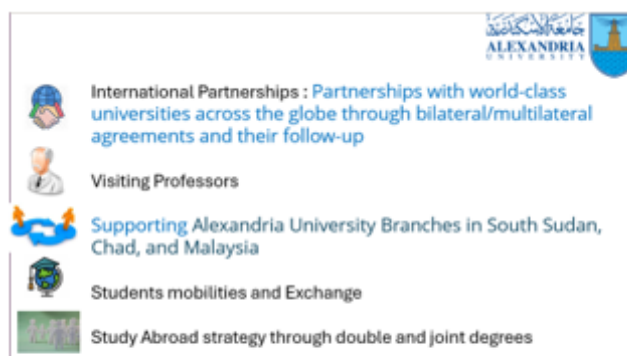
Student chapter awards:

- Commendable Award 2018
- Honorable Award 2019
- Outstanding Award 2023
- Green Chemistry Award 2024
- Outstanding Award 2024



Scope 7: International Collaboration and Partnerships is performed by collaborating with other countries and institutions to share knowledge, technology, and expertise on GHG emission reduction.

DUAL AND JOINT DEGREES IN NUMBERS



DUAL AND JOINT DEGREES IN NUMBERS

Dual Degrees : 49 with 5 countries

• (U.K. / U.S.A./ France/ Italy/ Spain)

Joint Degrees: 3 with 2 countries

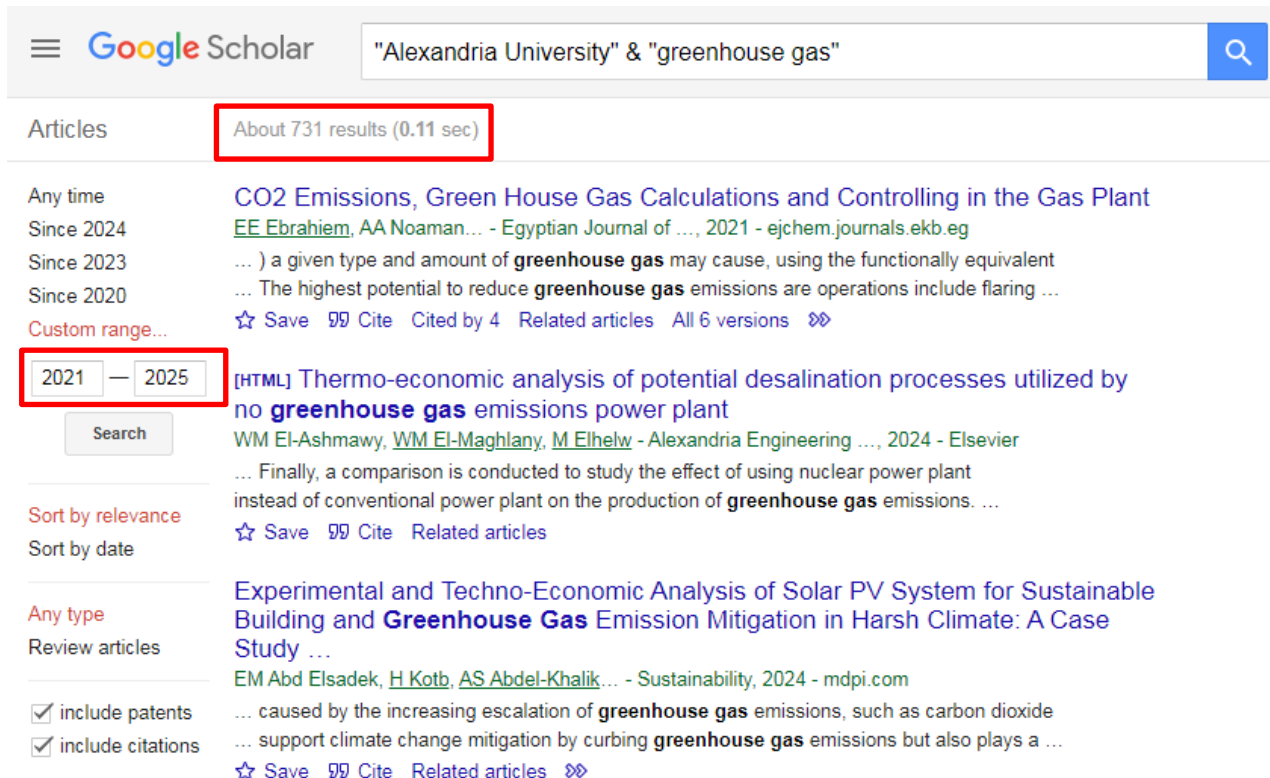
• (U.K. / France)

Potential Programs: 87 with 8 countries

(U.K. / U.S.A./ France/ Italy/ Germany/ Canada/ Austria/ Malaysia)

Alexandria University's Research on Greenhouse Gas Emissions

- Researchers from various faculties at Alexandria University have been conducted 731 research articles and reviews, within 2023-2024, to mitigate the Greenhouse Gas Emissions across different scientific fields.



The screenshot shows a Google Scholar search for "Alexandria University" & "greenhouse gas". The search results are filtered to show articles from 2021 to 2025. The first article is "CO2 Emissions, Green House Gas Calculations and Controlling in the Gas Plant" by EE Ebrahiem, AA Noaman, et al. (2021). The second article is "[HTML] Thermo-economic analysis of potential desalination processes utilized by no greenhouse gas emissions power plant" by WM El-Ashmawy, WM El-Maghlany, M Elhelw (2024). The third article is "Experimental and Techno-Economic Analysis of Solar PV System for Sustainable Building and Greenhouse Gas Emission Mitigation in Harsh Climate: A Case Study ..." by EM Abd Elsadek, H Kotb, AS Abdel-Khalik (2024). The search results are sorted by relevance.

Alexandria University's Carbon Footprint (2023/2024)



During the very few past years, the climate change and the global warming facing the entire universe have gained much more attention due to their direct effects on the human life on earth. As a result, countries, organizations, and people have noticed that it is now the time to face these challenges and as an initial step, we must first determine or calculate the amount of pollution that we cause to our planet, then we shall work on ourselves to minimize this pollution. One of the most famous methods to monitor the climate change is to determine what is known by Carbon Footprint.

The term "Carbon Footprint" is usually used as shorthand for the amount of emitted carbon (in tons) by an organization or country. This footprint is also an important component of the Ecological Footprint, since it is one competing demand for biologically productive space. Carbon emissions from burning fossil fuel usually accumulate in the atmosphere if there is not enough biocapacity dedicated to absorb these emissions. Therefore, when the carbon footprint is reported within the context of the total Ecological Footprint, the tons of carbon dioxide emissions are expressed as the amount of productive land area required to sequester those CO₂ emissions, which tells us how much biocapacity is necessary to neutralize these emissions.

Measuring Carbon Footprint in a certain area just shows us how much biocapacity is needed to take care of our untreated carbon waste and to prevent carbon accumulation in the atmosphere, which as a consequent can enable us to address the climate change challenge in a clearer way. In fact, the climate problem emerges because the planet does not have enough biocapacity to neutralize all these emissions. Humanity's carbon Footprint has increased 11-fold since 1961. Reducing humanity's carbon Footprint is the most essential step we can take to end overshoot and live within the means of our planet.

The climate pact approved in Paris in December 2015 represented an important step in re-imagining a fossil-free future for our planet. Nearly 200 countries around the world, including Egypt, agreed to keep global temperature rise well below 2°C. According to the known data from (Intergovernmental Panel on Climate Change) IPCC's 2014 report that a concentration of greenhouse gases in the atmosphere of 450 ppm CO₂ equivalent gives us a 66% chance to comply with the Paris Agreement's (2°C) goal. In contrast, the National Oceanic and Atmospheric Administration of the United States Department of Commerce (or NOAA) reports that in 2020 we were already at 504 ppm CO₂ equivalent. This confirms that the problem is increasing and there is a critical demand to rapidly solve it. Although Egypt contributes with a small portion in the global emissions of greenhouse gases, but this small portion is growing with time. In addition, Egypt is also expected to suffer from shortage of water, decrease in agricultural crops, rising sea levels due to increase in temperature and change in rainfall patterns.

In the light of the above mentioned information and according to the "Sustainable Development Strategy: Egypt's Vision 2030", Alexandria University, as a very important educational institution, has taken the first steps to work on reducing carbon emissions as one of the most important sources of greenhouse gases and has implemented a plan to monitor and calculate the "Carbon Footprint since the academic year 2018 / 2019" for all its faculties, institutes and its administrative buildings in order to aid in decision-making.

When calculating the Carbon Footprint for all Alexandria University buildings for the Academic year (2023/2024), the approximate amount of emitted CO₂ was **4,284.13765 CO₂e**.

The total carbon footprint of the Faculties and Institutes of Alexandria University (Ton CO₂e)

Faculty/Institute	2020/2021	2021/2022	2022/2023	2023/2024
University Administration Building	NA	186.330	257.8696	235.6893
Faculty of Arts	235.887	179.299	126.5596	174.3114
Faculty of Commerce	412.128	29.3102	134.991	128.3933
Faculty of Education	21.807	9.264	28.61872	12.7546
Faculty of Medicine	1817.232	433.984	528.7561	442.4181
Faculty of Dentistry	705.702	29.379	301.0882	250.8576
Faculty of Engineering	693.748	675.702	530.7443	543.4759
Faculty of Agriculture	1326.267	1066.346	743.709	739.2388
Faculty of Pharmacy	318.059	306.118	273.1078	205.75421
Faculty of Science	317.362	218.947	222.71091	148.0105
Faculty of Nursing	122.79	161.580	140.3059	169.1397
Faculty of Veterinary Medicine	186.221	172.431	144.0973	157.2076
Higher Institute of Public Health	12.646	59.204	51.1156	48.2525
Medical Research Institute	555.478	186.894	144.438	186.7957
Institute of Graduate Studies and Research	10.92	7.246	16.0455	14.9636
Faculty of Physical Education for girls	277.671	380.872	306.9452	309.61494
Faculty of Physical Education for boys	214.835	319.100	235.999	192.7736
Faculty of Specific Education	12.069	3.613	11.8411	11.8663
Saba Pasha Faculty of Agriculture	92.785	109.632	98.6493	80.0543
Faculty of Education for Early Childhood	33.4747	4.745	19.0013	24.3051
Faculty of Fine Arts	22.654	19.541	20.6138	20.8157
Faculty of Tourism and Hotels	9.924	4.525	6.5065	3.9269
Faculty of Law	141.668	151.137	147.9066	183.5180
Total	7,541.33 CO₂e	4,715.1992 CO₂e	4,491.62033 CO₂e	4,284.13765 CO₂e

This report came out as a result of the concerted efforts of the academic community of Alexandria University during the academic year 2023/2024 in collecting, analyzing and editing this report in accordance with international standards and controls for carbon footprint calculations.

In order to allocate the specific position of Alexandria University regarding the extent of its contribution to carbon emissions among similar institutions, it was necessary to compare these emissions with other universities around the world.

University	Last Carbon Footprint Report	Carbon Footprint Total value (metric tons)
American University in Cairo (AUC)	2019/2020	34,391.3 CO _{2e}
Cape Town University (Republic of South Africa)	2018	75,187 CO _{2e}
Arizona University (USA)	2017	258,088 CO _{2e}
Alexandria University (Egypt)	2022/2023	4,491.62033 CO _{2e}
Alexandria University (Egypt)	2023/2024	4,284.13765 CO _{2e}

Conclusion:

According to the Carbon Footprint for all Alexandria University buildings for the Academic year (2023/2024), which is approximately 4,284.13765 CO_{2e}, one can conclude that the sustainability program of Alexandria University was successful. The total electricity consumption of Alexandria University for the academic year 2023/2024 is **4519154.69** kilowatts per hour. Total electricity use increased slightly compared to 2023 (**4329779.781** kilowatts per hour) The total electricity usage increased slightly compared to year 2022/2023. Which is not a significant increase. The total gas use on the Alexandria University campus in the year 2023/2024 is **8,784 m³** (99,809 KWh), which decreased almost of 35% compared to the academic year 2022/2023, where the total gas used was **13471 m³** (153,066 kWh). On the main campus area of Alexandria University electricity is used for lighting, cooling, heating and laboratory appliances.

On the other hand, a significant decrease in the consumption of paper packages is observed. The paper packages used in all Alexandria University buildings for the Academic year (2020/2021) was 84689 paper packages. While in the year (2021/2022) it was reduced to 47911 packages. In the academic year (2022/2023), the consumed paper packages slightly increased to reach 55712 packages. In the academic year (2023/2024), the consumed paper packages reached **46876 packages**.

Number of innovative program(s) in energy and climate change & Impactful university program(s) on climate change

- 1- The Faculty of Agriculture has 2 renewable energy centers and one center at the main building of the University. (Previously presented)
- 2- Solar Energy Center at the Faculty of Agriculture (Alexandria University): (Previously presented)



3- The Faculty of Science: (Previously presented)

Research Project: Development and implementation of decentralised solar-energy-related innovative technologies for public buildings, in the Mediterranean Basin

4- The Faculty of Science: (Previously presented)

Research Project: Production of Bio-Diesel from Algae in Selected Mediterranean Countries: Med-Algae Project



5- Smart Environmental Management of Climate Change in collaboration with Catania University, Italy

2 year Postgraduate Master program (4 semesters).

AdapTm-Erasmus project: The participating countries and Universities: Italy, Greece, Lithuania, Slovenia, Egypt (Alexandria University, Suez Canal University, South Valley University, Arab Academy for Science and Technology and Maritime Transport).

Program start date: year 2019

Link: <https://emuni.si> › ADAPTM-handout_2_Mod

5	
	Smart Environmental Management of Climate Change Master Program (Alexandria University, Egypt)
6	
	Sustainable Management of Fisheries and Aquaculture Science Master Program (Alexandria University, Egypt)

7	<div> </div> <div> <p>Co-funded by the Erasmus+ Programme of the European Union</p> </div> <div> </div> <p style="text-align: center;">M.Sc. in: Natural Resources Sustainability for Land Development (NRSLED) <i>Under the framework of SuReMap project (Sustainable Resource Management Programme to solve Deserted Challenges)</i></p> <p>SuReMap Project: Aims to establish interdisciplinary programs that train students to address water, energy & food-related challenges in "Egypt's 2030 strategy".</p> <p>NRSLED is an outcome of the SureMap Erasmus+ project that includes a consortium of 8 Egyptian and European universities. The program is cooperatively designed by the consortium, therefore; it has the advantage of the international and interdisciplinary perspective, European framework of recognition, and benefits from a wide network of participating professors from the following universities: RWTH Aachen, Heliopolis University, Alexandria University, CITY College – Sheffield University, The American University in Cairo, University of Palermo, Aswan University, and Technical University of Madrid.</p> <p>Program Vision: NRSLED program aims to prepare students with the knowledge and experience for the management and sustainable development of drylands' natural resources in the local, regional, and international related sectors.</p> <div> </div> <p>Program Mission: The Faculty of Science through NRSLED program seeks to qualify the graduates to be competitive at local, regional, and international levels, by creating an appropriate educational environment and fostering ethically, scientifically, and professionally sound approaches that enable graduates to serve the community and the institutions closely related to sustainable development plans.</p> <div> </div>
	<p style="text-align: center;">Natural Resources Sustainability for Land Development Master Program (Alexandria University, Egypt)</p>

6- Sustainable Management of Fisheries and Aquaculture Science, in collaboration with University of Aveiro, Portugal.

2 year Postgraduate Master program (4 semesters).

(Erasmus+ Project, European Union): The participating countries and Universities: Portugal (University of Aveiro), Italy, Croatia, Slovenia, Egypt (Alexandria University, Aswan University, Matrouh University, Arab Academy for Science and Technology and Maritime Transport).

Program start date: year 2021

Link: <http://fishaqu.eu>

7- Natural Resources Sustainability for Land Development in collaboration with Aachen University, Germany

2 year Postgraduate Master program (4 semesters).

Erasmus+ Project, European Union: The participating countries and Universities: Germany (RWTH Aachen), Egypt (Alexandria University, Heliopolis University, the American University in Cairo, Aswan University), Cyprus (CITY College – Sheffield University), Italy (University of Palermo), Spain (Technical University of Madrid).

Program start date: year 2022

Link:

YouTube: <https://suremap.eu>

facebook: <https://www.facebook.com/suremapproject>

LinkedIn: <https://www.linkedin.com/company/suremap-project>

8- The Faculty of Engineering - Alexandria University

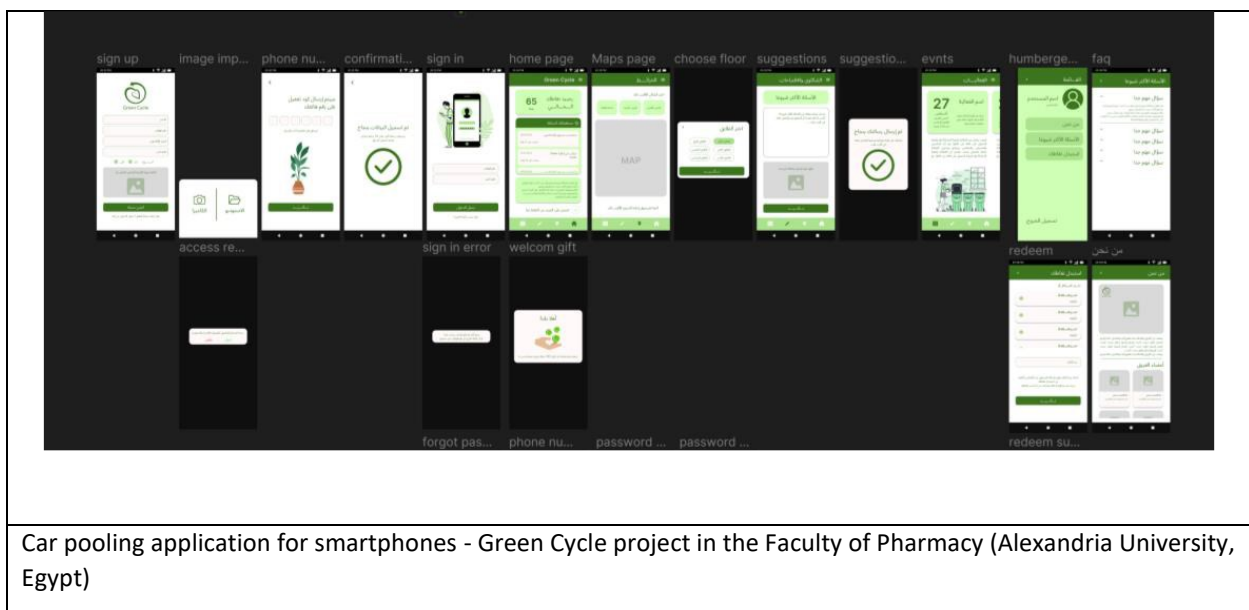
The implantation of the new Solar Station is completed. The implementation of the solar photovoltaic panels was performed in December 2022 with a capacity of **220** kilowatts on the 2000 m² roof top of the building of the Mechanical Engineering Department at the Faculty of Engineering.

Alexandria University have generalized this initiative in some of the faculties of Alexandria University in gradual stages.

9- Green Cycle project in the Faculty of Pharmacy - Alexandria University

Within the framework of the Faculty of Pharmacy's tireless endeavour to meet the needs of the community inside and outside the university and to contribute to solving contemporary health, social and economic problems, in line with the vision of Alexandria University, which is based on the principles of comprehensive quality and continuous and sustainable development, in harmony with the state's development plan "Sustainable Development Strategy: Egypt Vision 2030":

The college is advancing the "Green Circle" project, which is a non-profit project that seeks to keep the environment clean and green in a sustainable way by growing plants to increase green spaces, as well as separating waste for recycling and establishing charitable markets to benefit from used clothes and use electricity-saving alternatives such as energy saving lamps.



The project began in October 2022 by organizing a number of events in cooperation between the Community Service and Environmental Development Committee, ASPSA, and the Alexandria Rotary Clubs, under the supervision and organization of Faculty of Pharmacy - Alexandria University.

Also, the faculty is seriously seeking in the next stage to implement a grey water (wastewater) recycling system that depends on reusing wastewater from sewage basins only (without using wastewater from laboratory basins) by re-pumping it into the flushing bins in the toilets after work. Filtration and primary treatment.

Project goals:

1. Spreading awareness of the need to maintain the cleanliness of the Faculty of Pharmacy campus.
2. Spreading green spaces and landscaping on the campus of the Faculty of Pharmacy.
3. Reuse of wastewater from septic tanks only by pumping it back into the flushing bins of the toilets after primary treatment.
4. Taking advantage of rainwater for use in irrigation and regulatory operations.
5. Reducing the individual carbon footprint of students, faculty members and college employees by developing an application, prepared for smart phones, specific to the project that enables college members to share cars for transportation in a safe manner in order to reduce carbon emissions resulting from car exhausts.
6. Waste recycling, the most important of which is paper collection, as it has one of the highest recycling rates more than any other waste at the University.

The Green Circle Project is an integrated system that has many positive and direct impacts on the environment at the Faculty of Pharmacy, and provides a model that can be emulated in the colleges and institutes of Alexandria University, as providing a clean, sustainable environment has good effects on the mental and physical health of students, faculty members, and college workers, which makes them feel its value. They like to be there and keep it clean. Therefore, this project will lead to indirect results on the productivity of college employees, as well as transferring them to a culture of sustainability in preserving the environment outside the college walls.

The grey water recycling initiative has a significant impact on rationalizing water use and thus saving the college's monthly water bills, which constitute a burden on the budget.

Introducing the concept of car sharing among university students will reduce the costs of going to college.

Also, the presence of students and workers in a clean environment will improve overall performance.

What has been implemented of the project so far

- The trees around the college campus were trimmed, cut, sprayed, and maintained, and the plants spread at the college entrance were taken care of.
- Attention was paid to recycling wood waste from exam tables and chairs and converting them inside the college workshops with carpenters from the college into boxes for flowers and plants.
- A partnership contract was signed with some parties to dispose of hazardous waste.
- Awareness seminars were held for college members about the importance of preserving the environment and educating young people about climate change.
- 23 waste collection points have been distributed for recycling.
- 75 seedlings of ornamental plants were planted to create an aesthetic appearance and work to increase the green area. These plants are being cared for and increased in number.
- A running and walking marathon was held to encourage reduced use of strollers.
- Many charity markets have been set up to recycle clothes.
- The faculty lighting has been changed to use energy saving lamps.
- A complete design for grey water recycling has been developed and is awaiting university approvals.
- A team of faculty students developed an application, prepared for smartphones, to serve the project ideas and encourage active participation in it. The first phase has been completed and will be launched simultaneously with the study.
- A preliminary concept for rooftop farming has been developed.
- Planning to plant the faculty wall has been completed and is awaiting university approvals.

Future plan of the project:

- Increasing the rates of afforestation within the college and increasing the green area in the college through two main axes:
- Cultivation of the college's surfaces.
- Constructing a wall parallel to the college wall, 55 meters long and 40 centimetres deep. This wall contains 40 fruit trees, including lemon, olive, and orange trees. This phase will begin in September 2023.
- Launching the application for smartphones.
- Implementing environmental awareness programs at the beginning of study on policies that can be followed to reduce waste production on campus, and to reduce the consumption of paper, plastic, and metals on college campuses.
- Preparing an integrated file about the initiative in the universities and schools and communicating with the Governor of Alexandria to activate the idea. In various government facilities in Alexandria, which brings financial and environmental benefits to the bride of the Mediterranean.
- Generalizing the initiative to the rest of the governorates of the Arab Republic of Egypt, ensuring a cleaner environment and a less polluted and brighter future for future generations.

Green circle supplement:

Medicinal plant extraction unit (Environmentally friendly unit):

The medicinal plant extraction unit is a model unit for preserving the environment and its resources greatly because it contains devices that help reduce the use of organic solvents that are harmful to the environment and reduce water waste in general.

10- Renewable sources in electricity production project in cooperation with the European Union in Alexandria University buildings in 2023-2024

- In light of the keenness to rationalize energy consumption in university buildings and the general trend to increase the percentage of reliance on new and renewable sources in electricity production, and in cooperation with the European Union, the European Union funding was accepted for a project to transform some buildings of Alexandria University into green buildings by reducing energy consumption in addition to constructing Electrical power stations powered by solar energy on the roofs of some qualified faculty and institute buildings suitable for this purpose.
- Accordingly, three buildings belonging to the university's faculties were chosen as a first stage to study the feasibility of applying the project to them in terms of the building's ability to bear the weight of solar stations to produce electricity, as well as studying the spaces available for building these stations and the extent of those spaces'

exposure to solar radiation throughout the day. The opportunities available to reduce reliance on usual energy sources were also studied in terms of using more efficient lighting, increasing reliance on natural lighting during the day, and reducing the building's air conditioning loads.

- After research and review, the specialized scientific programs will be developed in the Faculty of Engineering, the Faculty of Education building within the Literary faculties Complex, and the Manchester Building in the Faculty of Medicine, which were chosen due to the recent construction of these buildings and their ability to accommodate the proposed development in terms of the electrical load network and the development of air conditioning systems and water heating systems used in laboratories and bathrooms.
- These buildings were visited and their suitability for the project was evaluated. The current electricity consumption and the possibility of covering these loads with electricity generated from solar energy were studied. The roof areas facing south and suitable for establishing solar stations were inspected and raised. The available roof area in the Specialized Scientific Programs Building at the **Faculty of Engineering**, Alexandria University, was 2,400 square meters. It can be used to create a solar station with an area of 1,000 square meters with a capacity of **120 kilowatts**, so that the station will be able to generate **360 megawatt hours** of electricity annually. As for the **Faculty of Education** building, the total area of the building was 4,000 square meters, and the appropriate spaces for building the station accommodate 1,000 square meters of solar cells with a capacity of **120 kilowatts**, so that the station is capable of generating **360 megawatt hours** of electricity annually, and for the Manchester building at the **Faculty of Medicine**, 1,200 square meters is capable of accommodating a solar power station with an area of 800 square meters. With a capacity of **96 kilowatts**, the station is capable of generating **288 megawatt hours** of electricity annually. These stations also contribute to reducing carbon dioxide emissions by a total of approximately 214 tons annually. The total expected cost of the project is about 300,000 euros.
- The time to recover the capital was estimated through providing the electricity consumed in the three buildings for approximately seven years from the date the stations entered service at full capacity, considering the periodic maintenance necessary to continue the station's operation with the greatest possible efficiency. Detailed reports were also prepared for each building and submitted to the general coordinator of the project, for review and to take the necessary steps to start this vital project, which is an important step in strengthening the efforts of the Egyptian state towards switching to renewable energy and reducing dependence on fossil fuels that have a negative impact on the environment.

New European Union Project for Renewable energy production (Solar panels)

No	Location	Production (in kWh)
1	Faculty of Engineering	360,000
2	Faculty of Education	360,000
3	Faculty of Medicine	288,000
	Total	1,008,000



The European Union project to convert several buildings of Alexandria University into green buildings by reducing energy consumption in addition to establishing solar-powered power stations: the Specialized Scientific Programs Building at the Faculty of Engineering, the Faculty of Education Building within the Literary Colleges Complex, and the Manchester Building at the Faculty of Medicine.

11- Fab Lab Project in the Faculty of Engineering - Alexandria University

The overall goal of the project is to develop the circular and creative economy model by creating an innovation place equipped with machines Low Tech in Alexandria is hosted by Alexandria University. This place will play a role in creating local dynamism Transversal to become a crossroads between different audiences and actors from different backgrounds. To connect waste collection Plastic and its evaluation. Horizons Solidarités and the University of Corsica, in partnership with their peers in Alexandria, based on their experience in Fab Lab Corte, conduct experiments on recreating value for plastic in Alexandria. The goal is to connect all actors from assembly through training to development and dissemination (Discussed in detail in page 23, 24).

The scope of work in the project

- **Environment, climate, and energy**
- **Education, social aspect, and research**

These goals will be implemented through the establishment of a FabLab within Alexandria University, which is a space for innovation. Derives place this innovation is energized by a generation that has innovative ideas in the fields of environment, citizenship, and culture. This revival is embodied in women and the men who are partners in the project. The high skills of Alexandria University and Senghor University, Francophone operator in Alexandria, ensures the long-term commitment of their students and the sustainability of the local dynamism. Implementation benefits from facilities Headquarters provided by Alexandria University Project Engine. VSI contributes to the unification of links between regions. Project depends on the Alexandria Business Association (ABA), a trade organization that invests in creating startups in the circular economy and selling finished products. A multi-representative consortium from both sides of the Mediterranean could be formed from these dynamics that will support the project over time.

The French side confirmed that the Fab Lab at the University of Corsica in France has become a very successful experiment on the economic and environmental levels, and is considered one of the most important strategic projects in France and receives the attention of the French Presidency and the Mediterranean region. The French side explained that it seeks to benefit from the expertise of Alexandria University, and that they are fully prepared. To provide full support for the project and coordinate with the relevant authorities in France for the success of this experiment, which will benefit both sides on the environmental, economic and environmental levels.

Led by the South Region and its partner Alexandria Governorate, this project aims to be part of an inter-regional dynamic with the participation of the **Corsican community**. This project is part of the “Zero Plastic Waste” regional strategy in the Mediterranean. It is also part of the dynamics of the memorandum signed on September 5, 2022 between the region and IUCN Med on the occasion of the World Nature Congress in Marseille, which aims to develop joint actions for the benefit of a Mediterranean region without plastic. On the other hand, this project is part of the context of the twenty-seventh session of the Conference of the Parties held in Egypt. It joins the global effort undertaken by the Egyptian state in order to effectively combat the effects of climate change. Its realization in Alexandria makes it possible to structure a permanent cooperation with the governorate around a symbolic project that will, in the long term, enhance the social impact of research and university cooperation. In addition, this project promotes decentralized cooperation between the three regions.

Indeed, supporting this project will highlight the role of the region, Alexandria Governorate, and Corsica in supporting innovative solutions to adapt regions to changing Climate. The strategy is based on four pillars: **digital communication in three languages, the production of digital communication media intended for the general public, organizing competitions for artists and architects from the two countries to enhance the innovative role Fab Lab, and discussions of ideas supported by all partners as a regional facilitator**. In addition, a dedication ceremony for the Fab Lab will be held in the presence of elected officials, governors, university presidents, and will be followed by the symposium in Alexandria is a continuation of COP 27, which was held in November 2022.

A system for monitoring and evaluating the project will be developed by members of the steering committee with the support of specialists. The monitoring and evaluation system will include the quantitative, qualitative, and financial components of the project. It will make it possible to measure the effectiveness of this place of innovation as a driver of sustainable and inclusive development at the local and Mediterranean levels. Indicators for this monitoring and evaluation system will be identified and validated by the Steering Committee at the beginning of the project to verify throughout the



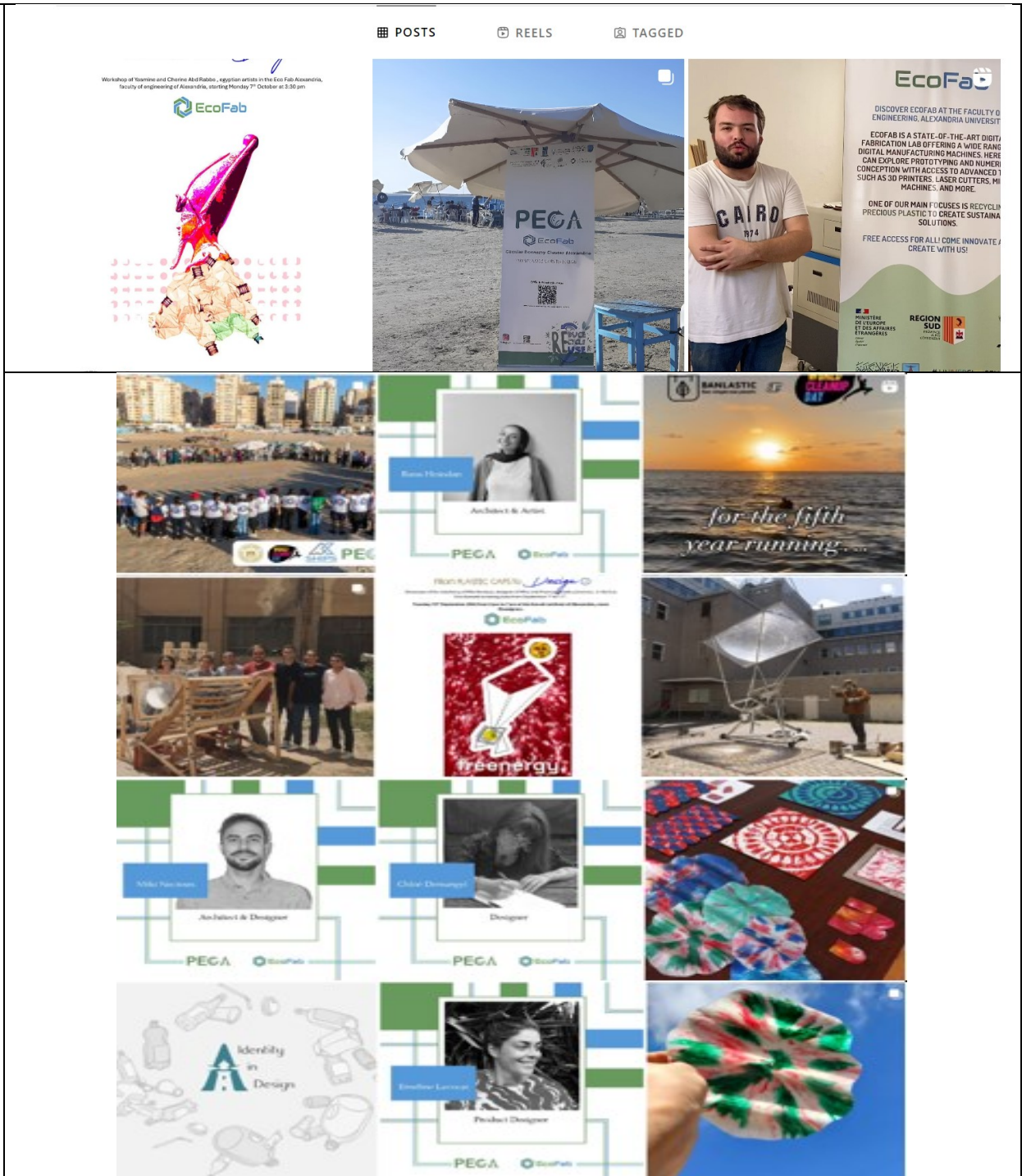
implementation period whether the results are consistent expected meets set goals. Answers will need to be provided to the items specified in the reference system approved by the Steering Committee.

Link for Fab Lab Project

https://www.instagram.com/ecofab_alexandria/

<https://alexu.edu.eg/index.php/en/important-news/9096-president-of-alexandria-university-inaugurates-the-fab-lab-for-reusing-plastic-peca>

11



	
	<p>Eco Fab Alexandria</p> <p>The Eco Fab is a fab lab dedicated to plastic recycling in Alexandria, Egypt and part of PECA project (Circular economy hub in alexandria).</p>

- Awareness program toward energy and Climate Change was implemented by Alexandria university through initiatives, symposia, conferences, workshops, and activities.
- Researchers from various faculties at Alexandria University have conducted 2080 research articles and reviews, within 2023-2024, to investigate the phenomenon of climate change across different scientific fields.



Articles

About 2,080 results (0.15 sec)

Any time

Since 2024

Since 2023

Since 2020

Custom range...

2021 — 2025

Search

Sort by relevance

Sort by date

Any type

Review articles

☒ include patents

☒ include citations

☒ Create alert

[PDF] Neighborhoods at Risk of Drowning in Alexandria in Light of **Climate Change**, Coastal Threat Sources and Means of Protection

KAK Ouda - Published in International Journal of Trend in ..., 2022 - researchgate.net

... that the city of Alexandria is facing a new existential threat resulting from **climate change**, and that it will be drowned due to **climate change**. In this article, I would like to clarify that the ...

☆ Save Cite Cited by 2 Related articles

... Green Economy Concepts in Light of Climate Changes (Applied to Students of the Faculty of Tourism and Hotels-Department of Tourism Studies-Alexandria University ...

NE Elhattab - Journal of Association of Arab Universities for Tourism ..., 2022 - journals.ekb.eg

... the Faculty of Tourism and Hotels at **Alexandria University** in light of climate changes.Design... of the Faculty of Tourism and Hotels at **Alexandria University**.Findings –The study found an ...

☆ Save Cite Related articles All 4 versions

[HTML] A study of strategic plans of sustainable urban development for Alexandria, Egypt to mitigate the **climate change** phenomena

AFA Mohamed - Future Cities and Environment, 2023 - futurecitiesandenvironment.com

... **Climate change** is one of the most critical environmental concerns confronting cities. A ... **Climate change** and an oil-based economy are inextricably linked: car emissions considerably ...

☆ Save Cite Cited by 2 Related articles All 4 versions

Planning, implementation, monitoring and/or evaluation of all programs related to Energy and Climate Change through the utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Assess potential for renewable energy installations	IoT-Based Agroecological Farming Project, Motion-Activated Lighting with PIR Sensors, Automated Lighting Systems, and Renewable Energy Installation Plan	Feasibility studies, website links	Nov 2023- Dec 2023	Energy Management, ICT Dept
Implementation	Install solar panels, wind turbines and Biodiesel production unit	Project installation tools	Installation logs, energy generation data	Jan 2024 - June 2024	Facility Management
Monitoring	Track renewable energy production	Renewable energy monitoring systems	Energy production reports, performance analytics	Ongoing	Information and Documentation Center for Decision Support at Alexandria University

Description:

Number of renewable energy sources on campus

- **Planning:**

1) Motion-Activated Lighting with PIR Sensors

PIR sensors have been installed in select faculties to enable motion-activated lighting by detecting changes in heat signatures. Gradual implementation of PIR sensors across all faculties and institutes of the university, as a future phase.

2) Automated Lighting Systems

Install lighting systems that automatically adjust based on occupancy or time of day to enhance energy efficiency.

3) IoT-Based Agroecological Farming Project

- **Location:** Alexandria University Farm
- **Implementation Partner:** Shanghai Water Saving Irrigation Corp.
- **Project Overview:** Develop and implement an automated irrigation system using IoT technology to support modern irrigation practices.
- **Goals:** Efficient irrigation of economically important crops, and enhancement of irrigation systems to mitigate the freshwater scarcity in Egypt.

4) Renewable Energy Installation Plan

a) Solar Photovoltaic (PV) Systems

Install solar PV systems to harness solar energy for electricity generation.

- **Steps:**

- Conduct site assessments to determine optimal locations.

- Install solar panels and connect them to the electrical grid.
- Implement ongoing maintenance to ensure system efficiency.

b) Wind Energy Systems

- Utilize wind turbines to generate electricity from wind energy.

➤ Steps:

- Identify suitable sites with adequate wind resources.
- Install wind turbines and integrate them with the power grid.
- Perform regular maintenance to maximize performance.

C) Biodiesel Production

- Utilize algae to generate efficiently and sustainably produce high-quality biodiesel.

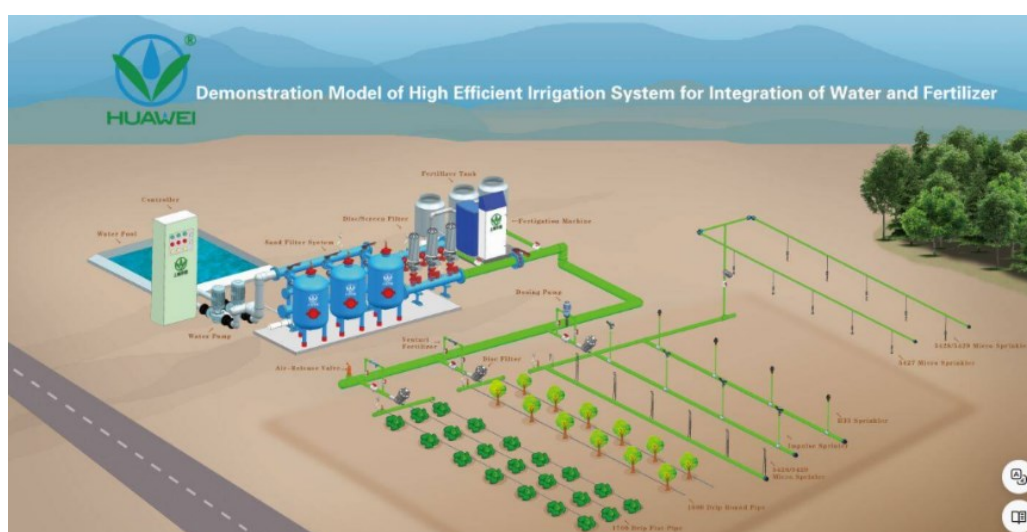
➤ Steps:

- Identify algal strains.
- Mass production and transesterification process.
- purifying the biodiesel, testing quality of the final product.

• Implementation:

setting up renewable energy sources: solar panels, wind turbines, and Biodiesel production.

- **The Faculty of Agriculture has 2 renewable energy centers and on center at the main building of the University.**
- **Solar Energy Center at the Faculty of Agriculture (Alexandria University)**
- **Renewable sources in electricity production project in cooperation with the European Union in Alexandria University buildings in 2023-2024**
- **Alexandria University new initiative is to use all the roofs of Alexandria University buildings that are suitable for the implantation of the new Solar Station is completed.**
- **IoT-based agroecological farming project has been launched at Alexandria University Farm, spearheaded by Shanghai Water Saving Irrigation Corp.**



An innovative IoT-based agroecological farming project has been launched at Alexandria University Farm, spearheaded by Shanghai Water Saving Irrigation Corp.

Solar Panels and Wind Turbines



Example of Windmill and Solar Panels (Solar Energy Center at the Faculty of Agriculture - Alexandria University)



Solar Energy Center at the Faculty of Agriculture (Alexandria University)



Solar Panels (Solar Energy Center at the Faculty of Agriculture - Alexandria University)



Solar Energy Center at the Faculty of Science (Alexandria University)



BIPV Roof Pergola, Faculty of Science in Moharram Bek (Alexandria University)



BIPV Garden Pergola, Faculty of Science in Moharram Bek (Alexandria University)



Solar photovoltaic with a capacity of 220 kilowatts on the 2000 m² roof top of the building of the Mechanical Engineering Department at the Faculty of Engineering



The European Union project to convert several buildings of Alexandria University into green buildings by reducing energy consumption in addition to establishing solar-powered power stations: the Specialized Scientific Programs Building at the Faculty of Engineering, the Faculty of Education Building within the Literary Colleges Complex, and the Manchester Building at the Faculty of Medicine.



Green building implementation through the use of sun breakers in the SSP building at the Faculty of Engineering

Bio-Diesel Production



Production of Biodiesel from Algae





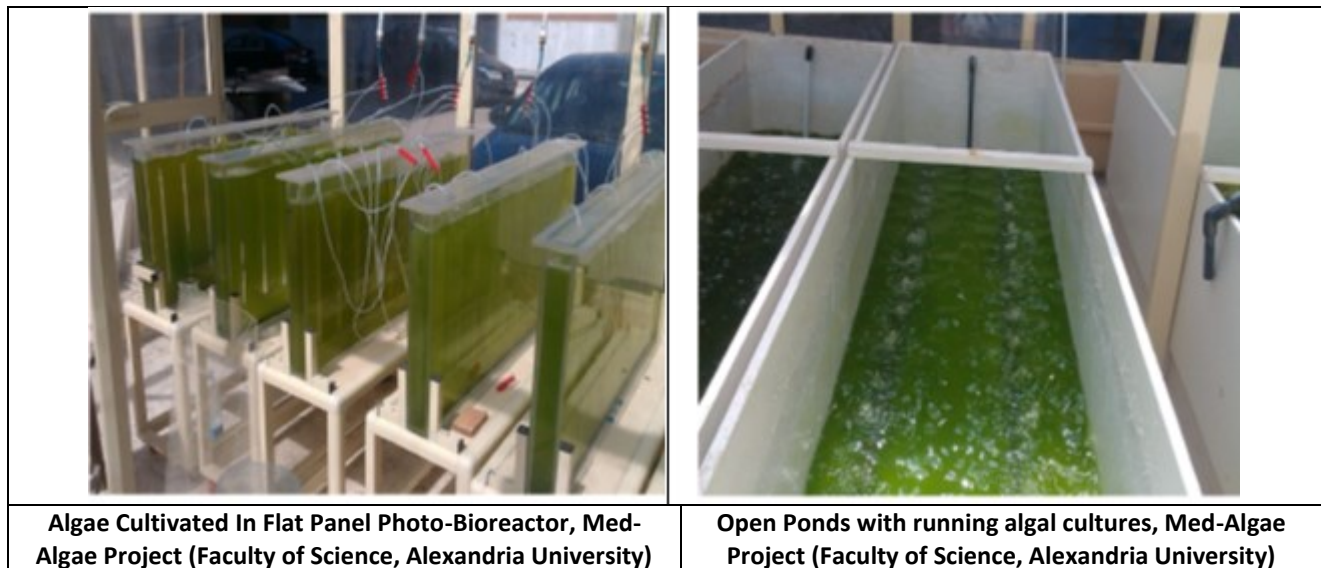
Visitors,
Stakeholders &
Media
 29 March 2014



Project funded by the
EUROPEAN UNION



Production of Bio-Diesel from Algae in Selected Mediterranean Countries: Med-Algae Project (Faculty of Science, Alexandria University)



Algae Cultivated In Flat Panel Photo-Bioreactor, Med-Algae Project (Faculty of Science, Alexandria University)

Open Ponds with running algal cultures, Med-Algae Project (Faculty of Science, Alexandria University)

- **Monitoring:** Use renewable energy monitoring systems to track energy production, generating performance reports and analytics.
- **Alexandria University campus generates 1,170,591.2 kilowatt-hours (kWh) of renewable energy annually.** When compared to the campus's total annual electricity consumption of 4,519,154.69 kWh, this renewable energy production accounts for 25.9% of the total energy used. More than a quarter of the campus's electricity needs are met by renewable energy sources. This indicates a significant contribution of renewable energy to the campus's overall energy consumption, reducing reliance on non-renewable energy sources.

No	Renewable Energy	Production (in kWh)
1	Solar panel	1,115,591
2	Windmill	55,000
Total		1,170,591.2

[3] Waste (WS)

3R (Reduce, Reuse and Recycle) Program for University Waste

Alexandria University developed the initiative of "separating and recycling waste", which aims to protect the environment, maintain the cleanliness of colleges and develop environmental awareness within the framework of the concepts of green economy and sustainable development to achieve the vision of Egypt 2030.



Alexandria University Program for Waste Recycling

1. The University applied a strategy in all its faculties to segregate the waste into special containers for plastic, papers, glass, and metal objects.
2. The University set an initiative for waste recycling in all faculties with a set of labeled containers for waste segregation distributes in each faculty.

3. The University set initiative for increasing the awareness about Purchase Recycled Products: It is important to buy products made from recycled materials to strengthen the market for recyclables.
4. The University developed an initiative with the governorate (Alexandria Youth alliance) to participate with us in waste management initiative.
5. The University has a contract with Nahdet-Misir Company (the official company in the governorate for waste disposal) for collection and recycling.
6. The University is trying to develop an initiative as a student project with Titan® Company for manufacturing of MDF sectors using university collected waste for maximal benefit from this waste.
7. University students at the Faculty of Science initiated a student project for plastic recycling.
8. The Community Service and Environmental Development Council of Alexandria University reviewed the report submitted by Prof. Dr. Sherine Khattab, Vice Dean of Postgraduate Studies and Research, and the University's Coordinator for the Best Environmentally Friendly University Competition and GreenMetric, addressing various environmental issues at the university. She developed a program for waste separation and recycling and identified the specific needs of each faculty for garbage bins designated for waste sorting (February 2024).
9. The EFFCT team from Alexandria University won second place in the prestigious Hult Prize International Competition held in Paris, France. competing against over 10,000 teams from 110 countries. The team developed a startup focused on recycling textile industry waste. They previously won first place in the "Egypt Summit for Social Investment Projects" and received support and training from the Innovators and Talents Fund. Minister of Higher Education Dr. Ayman Ashour praised the team's achievement, highlighting the importance of student participation in international competitions. The president of Alexandria University, Dr. Abdelaziz Konsowa, emphasized the university's commitment to fostering innovation and creativity among students (November 2023).
<https://www.facebook.com/MOHESREGYPT/posts/pfbid02FFPJ7jCP6DpGtM6HnA5v5QXwVgj4S97BK5sRWGE47USahrLciBRsR5NfjbM75nl>
10. A workshop titled "Chitosan Egypt: Redefining Waste2resource Innovation" was delivered as part of The 23rd Conference on Materials Science Materials Science and Entrepreneurship: A road for sustainable development", held by the Institute of Graduate Studies and Research, Alexandria University (14-16 October 2023).
11. Researchers at Alexandria University are focused on turning waste into a useful material in road construction, contributing to more environmentally friendly infrastructure. They investigating the use of municipal solid waste incineration fly ash as an alternative aggregate replacement in hot mix asphalt as part of efforts to recycle waste materials and develop more sustainable construction practices.
12. Raising awareness among Alexandria University students from various faculties—including Science, Engineering (Civil, Mechanical, and Mechatronics), Commerce, Arts (Surveying, mapping, and GIS), and Fine Arts (Architecture)—about wastewater treatment was achieved through summer training and periodic visits to the laboratories of the Alexandria Sewerage Company. This effort supports the achievement of the Sustainable Development Goals by enhancing partnerships for sustainable development and fostering collaborations that mobilize and share knowledge, expertise, and technology. The training aimed to provide students with essential scientific skills and practical experience to prepare them for the job market (September 2024).
 - **Faculty of Science:** Theoretical training introduced the role of the Sewerage Company, while practical training involved visits to treatment plants, central laboratories, and lectures on occupational safety and industrial sewage.
 - **Faculty of Arts (Surveying, mapping, and GIS):** Training included surveying applications, urban planning, and the practical use of leveling instruments, total stations, and GPS devices, concluding with lessons on ArcGIS and sewage system design.
 - **Engineering Colleges:** Civil Engineering students trained in network renewal and design, while Mechanical and Mechatronics students learned about pump components, welding, and electrical generators, with visits to various workshops.
 - **Fine Arts (Architecture):** Students received training on project design drawings and estimating costs.
https://www.facebook.com/profile/100068944998517/search?q=%D8%A7%D9%84%D8%B9%D9%84%D9%88%D9%85&locale=ar_AR
13. A cooperation protocol was signed between Alexandria University and Alexandria Sewerage Company to employ outstanding graduates from the faculties of Engineering, Commerce, Law, Science, and Arts over the past five years, based on the actual needs and annual workforce plan of the sewerage company. Additionally, the protocol aims to prepare a new generation of skilled professionals in modern technologies. It includes agreements for employees to access master's and doctoral programs at reduced fees and to conduct workshops and training courses with professors from Alexandria University to enhance partnerships for sector performance and achieve sustainable development goals.
14. The Industrial Microbiology and Applied Chemistry Program (IMAC) at Faculty Science of Alexandria University organized a scientific visit to El-Shafei Leather Tannery in the Al-Max area of Alexandria on March 26 and April 30, 2024.

This visit was part of the program's applied teaching and learning methods and was included in the practical component of the 'Bioremediation of Pollutants' course (Code: Micb 472). During the visit, the students toured all departments of the company and received a comprehensive scientific explanation of the stages of natural leather production, as well as how to protect the leather from mold during manufacturing and how to manage leather industry waste.

15. Students from the Faculty of Science at Alexandria University have innovated a way to recycle used cooking oil to create an eco-friendly plasticizer, and how can we reuse cooking oil in plastic production.

<https://www.youtube.com/watch?v=LIB1QJ04fqs>

16. A team from the Faculty of Engineering at Alexandria University has developed a robot designed to clean seas of waste and oil. Their innovative project earned them second place in the National Initiative for Smart Green Projects. The robot aims to contribute to environmental conservation by efficiently removing pollutants from water, offering a sustainable solution to marine pollution.
17. Students from the Faculty of Fine Arts at Alexandria University are using environmental waste to create distinctive artistic murals. As part of Alexandria University's community service initiative, the Faculty of Fine Arts contributed to the creation of a sports mural on the wall of the university's stadium. Dr. Nevin Gharib, acting dean of the faculty, stated that the project involved 16 students from the mural photography department as part of their graduation project. The project was supervised by Dr. Mona Rajab and Dr. Donia Medhat, faculty members of the department. The goal of the project is to recycle materials discarded in nature and repurpose them for aesthetic public works, aligning with the principle of sustainability. Mosaics were used to complete the entire mural. Additionally, second-year students from the decoration department implemented other projects that transform environmental waste, such as wood and scrap, into creative models. These models are intended to beautify fields in Alexandria, helping to restore the coastal city's charm through the work of its young artists (April, 2024).
18. The Center of Excellence for Water is organizing a training program for scholarship students. This training is conducted in collaboration between the Water Excellence Center at Alexandria University and EPROM Company to provide a course for a group of students from the Water Excellence Center. This initiative reflects Alexandria University's commitment to equipping its students with practical skills related to water management, ensuring they possess the competencies needed by the business sector while aligning their studies with labor market requirements. The Center of Excellence for Water at Alexandria University has organized a training program for students in the Water Excellence Center Scholarship and the Civil and Environmental Engineering Program. Alexandria University, EPROM Company, and the students are participating in the following two training programs:
 - **Water Treatment for Industrial Applications**
 - **Wastewater Plant Operations and Troubleshooting.**
19. On July 8, 2024, the students from the Faculty of Sport Education, Abu Qir, participate in Initiative to Clean the Eastern Harbour of Alexandria. In line with Alexandria University's commitment to community service and under the auspices of Professor Dr. Abdelaziz Konsowa, President of Alexandria University, and Dr. Yasmine Fouad, Minister of Environment, students from the Faculty of Sport Education in Abu Qir participated in a week-long initiative to clean the eastern harbour of Alexandria. The initiative includes the participation of the El-Raml Rotary Club and the Egyptian Diving and Rescue Federation. The initiative aims to promote sustainable tourism and improve beach enjoyment while supporting local communities in enhancing their waste disposal practices. It also encourages citizens to reduce their use of single-use plastic products and increase recycling efforts. Additionally, the project seeks to educate the public on the importance of maintaining clean and healthy beaches, raising awareness about the threats that plastic and chemical waste pose to marine life, as well as focusing on collecting, classifying, and recycling waste to improve the quality of the coastal environment.
20. Alexandria University hosted the 21st International Scientific Conference of the Faculty of Business on July 13, 2024, titled "Global Challenges and Achieving Business Sustainability." Business sustainability includes three pillars: economic prosperity, social justice, and environmental protection. Alexandria University is establishing business incubators and opening waste recycling plants to support sustainability.
21. On May 27, 2024, Professor Dr. Abdelaziz Konsowa, President of Alexandria University, inaugurated the Fab Lab for Reusing Recycled Plastic (PECA) as part of Egypt's Sustainable Development Strategy (Vision 2030). The event was attended by several dignitaries, including the Consul General of France in Alexandria and representatives from various educational and environmental organizations. The PECA project aims to utilize plastic waste that ends up in the Mediterranean Sea by establishing a digital manufacturing laboratory. This facility will allow for the collection, sorting, and recycling of plastic waste to create prototypes and new products, contributing to the reduction of plastic pollution in Alexandria. The lab spans 100 square meters and prioritizes the safety of waste collectors and workers. The total budget for the project amounts to 496,800 euros, with support from the French Ministry of European and Foreign Affairs, the Provence-Alpes-Côte d'Azur region, the Corsican community in France, the Alexandria Governorate, and Alexandria University in Egypt.

22. On June 18, 2024, Students from various schools in Alexandria, along with students from the French Institute in Alexandria, collaborated with Alexandria University to participate in a large-scale cleanup campaign titled **"Our Sea is Clean Without Trash 🌿🗑️."** for Anfouchi beach. After cleaning the beach, the students discovered the process of transforming plastic waste through 3D printing at the Fab Lab at Alexandria University. This initiative is part of the "Circular Economy: From the Beach to the Lab" project, led by the French Consulate and the French Institute in Alexandria, with financial support from the European Union and in cooperation with the Alexandria Governorate and Alexandria University. The project aims to achieve partnerships for sustainability goals and to engage the local community in these efforts.

<https://www.facebook.com/ifealexandrie/videos/445679398217899>

23. The Center for Educational Innovations and Distance Learning organized the fifth edition of the conference titled "Alexandria University for Educational Innovations and Technology-Enhanced Learning," under the theme: Developing Learner Autonomy: Undergraduate Research and Flipped Classrooms as Two Proposed Means. The scientific committee of the conference evaluated the student research presented, which totaled 31 studies (15 in the field of humanities and 16 in natural sciences and life sciences). The judging committee announced that the Faculty of Science won second place for their research titled "Potential Microbial Degradation of PET from Alexandria Solid Waste Landfill." The research was conducted by students Mustafa Abdel Gawad Muhammad Suleiman Abdullah, Ali Muhammad Ibrahim Abdel Moneim, Muhammad Lotfy Ibrahim Muhammad Ibrahim, Maryam Ali Hafez Ibrahim Youssef, Wissam Sabry Abdel Fattah Hasballah, and Yasmine Abdel Aziz Al-Sayed Hasballah, under the supervision of Professor Dr. Hanan Ghozlan.

24. The Faculty of Pharmacy won the third place in the Alexandria Governorate for the National Initiative for Green Smart Projects in its third edition (2024) with its 'Green Cycle' project, competing in the category of non-profit community initiatives and participations. Notably, this project has now won for the second consecutive year, having previously achieved first place in the Alexandria Governorate last year.

25. An initiative of the Infection Control Unit at the Faculty of Medicine, Alexandria University.

- Waste sharp tools, which include syringes, needles, scalpels, and similar tools that have the ability to penetrate the skin or body tissues, are disposed of by throwing them in the designated yellow safety box.
- When there was a shortage in the amount of safety boxes, communication was made between members of the infection control teams to use empty soap jars from our homes.
- By referring to the National Guide to Infection Control and the Guide to the Supreme Council of Universities, we found that the jerry cans that we will compile meet the specifications in these two guides.
- We have contacted hospital workers who wish to donate these jerry cans to cover the shortage.

This allows as much waste as possible to be recycled and exploited instead of disposing of it in landfills, which will ultimately lead to its burning and the resulting environmental pollution and increased greenhouse gas emissions. Our university promotes maintaining the campus environment in a clean condition using high-quality, non-toxic detergents and cleaning materials.

Our recycling program aims to recycle waste by separating it from the source into:

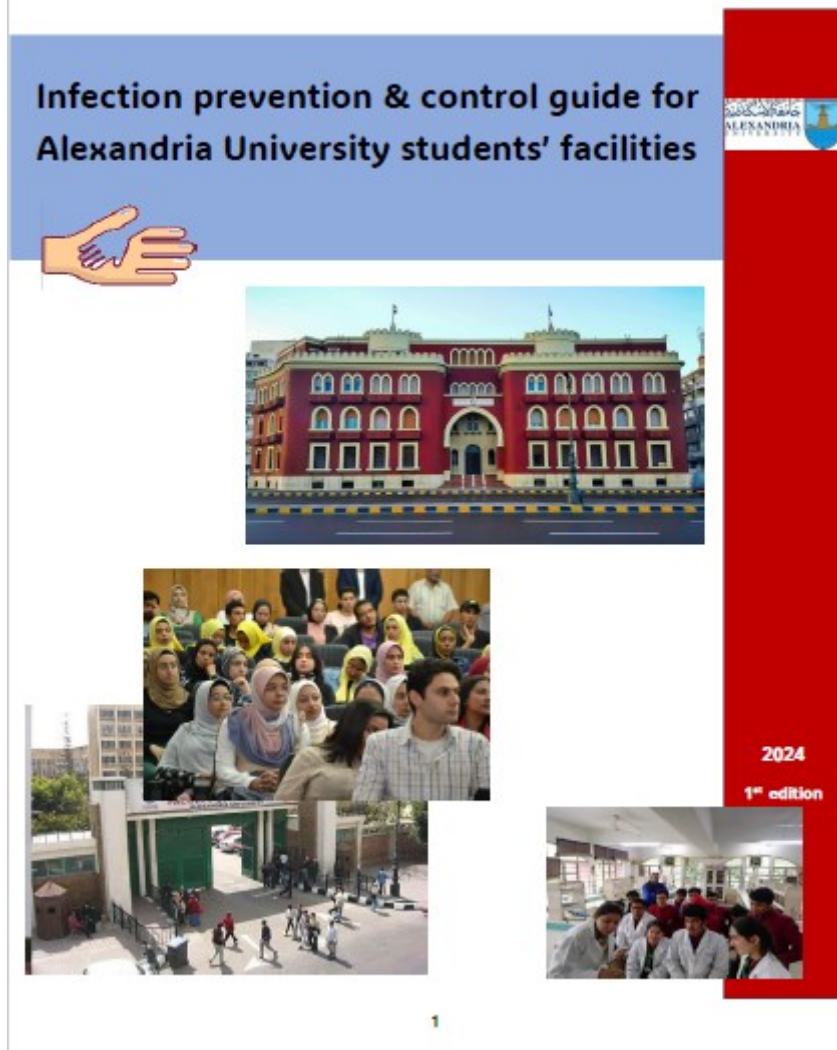
- Organic waste and food residues.
- Plastic waste and plastic bags.
- Mineral waste and carbonated water cans.
- Paper waste

Guideline for Infection Control in Student Facilities at Alexandria University

As part of its commitment to sustainable development for improving environmental affairs and serving the community, Alexandria University has taken a pioneering role, being the first among Egyptian universities to adopt the idea of creating a comprehensive guide for correct procedures and practices that meet infection control recommendations within its facilities that serve students. This extends not only to the clinics in the colleges and institutes of the university but also to student residences, lecture halls, classrooms, laboratories, sports fields, and various other facilities frequented by students at Alexandria University.

The vision behind the university's initiative to develop this guide is to establish a framework for practices, behaviors, and requirements for all students and staff at Alexandria University, based on the principles and guidelines of infection control. This guide will serve as a reference for safeguarding the health and safety of students and staff, ensuring

sustainability, and positively impacting the community in Alexandria. It will also serve as a model in this regard, with the guide being made easily accessible to the target audience both in printed format and electronically for ease of use and review when needed by all students and staff.



The goal of making this guide available to those interacting with Alexandria University, regardless of their roles, is to promote proper health practices among students and staff to ensure infection control and reduce its risks. This will improve working conditions, reduce the spread of contagious diseases, and raise health awareness within the university's facilities. It also encourages the adoption of proper procedures for environmental cleanliness and personal hygiene within the university's campuses, faculties, and institutes.

This initiative was accomplished through a team formed to represent all academics specializing in infection control at Alexandria University, including faculty members from the Faculty of Medicine, the Medical Research Institute, the High Institute of Public Health, and the Faculty of Nursing. This guide highlights the university's supportive role in all pioneering and innovative ideas that have a positive impact in various fields: socially, by enhancing individual daily practices; health-wise, by promoting sustainable health culture; and economically, by reducing infection rates among students and staff, thus relieving the economic burden on the university and the state in terms of medical treatment costs.

The guide presents, in a simplified yet scientifically accurate manner, the essential recommendations that must be followed and the correct procedures to minimize the risk of exposure to infections in various university facilities. It also includes instructions on dealing with incidents such as spills (vomit, bleeding, etc.) and primary guidelines for unexpected situations like bites or injuries. The team behind the guide hopes that its dissemination will lead to maximum benefit, earn the approval of its readers, and contribute effectively to the development of our beloved country. We also hope that we have fulfilled the mission entrusted to us by the university leadership, achieving their satisfaction and meeting their expectations in supporting this pioneering initiative.

Alexandria University also has a large number of research projects in the field of waste recycling, treatment and reuse of sewage and industrial wastewater.

- Evaluation of the performance of an innovative microbial fuel cell and its applications in Water and industrial WasteWater desalination, (2019-2020).
- Enhancing Resource Recovery and Improving Wastewater Reuse Through Synergistic Cooperation between Bioelectrochemical Systems and Forward Osmosis, (2019-2024).
- River and Wastewater Treatment Using Microbial Flocculants, (2020-2022).
- A novel combined approach for Poultry slaughterhouse wastewater treatment: prototype design and development, (2021-2024).
- Agricultural sustainability and water reuse in Egypt: innovative wastewater treatment and soil health, (2021-2024).
- Towards a green Economy Farm: Innovative Solar Collector for Biochar Production from Agricultural & Food Industry Wastes, Power Generation, and Crops Drying, (2021-2023).
- Wastewater Treatment by Integrated Green Coagulation and Membrane Technology for Reuse, (2021-2024).
- Construction of a Self-Charging Unit for Collecting Wasted Mechanical Energy from Basic Human Motion, (2023-2025).
- Production, modification and new prospects of biochar derived from biomass waste, (2023-2026).
- Microbial technology as a bioremediation tool for heavy metals removal from industrial wastewater through proteomic and nanotechnological approaches, (2023-2025).

Alexandria University Program for Treatment of Organic Waste

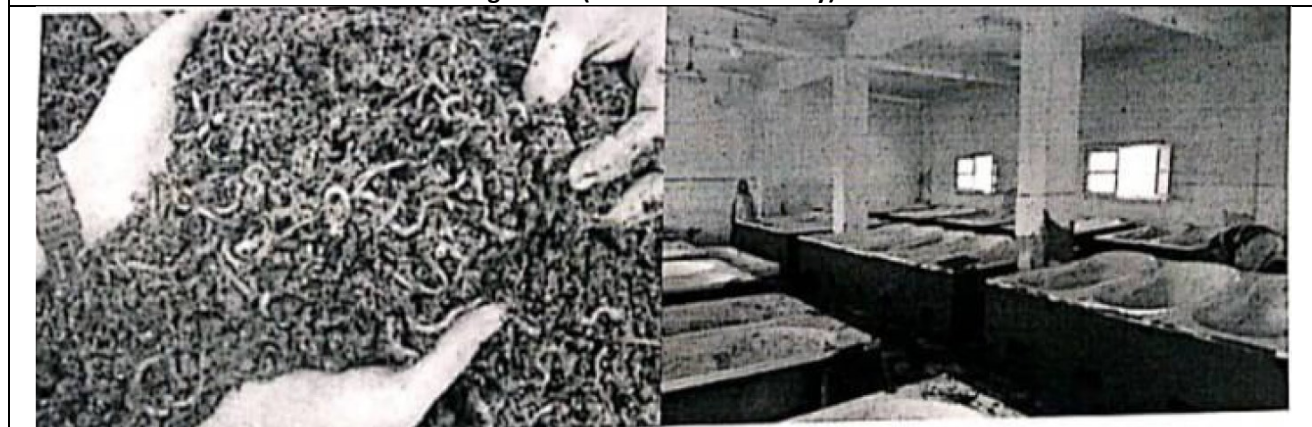
- Organic waste management includes a set of activities aimed at reducing its negative impact on the environment while extracting its potential value for converting organic waste into nutrient-rich soil. The process involves piling organic waste and allowing it to decompose under controlled conditions. The preparation process takes place within 45 to 60 days through stirring, purification, fumigation and filtration to obtain 58 tons (25%) of organic fertilizer.
- Separation of Paper in blue containers, Plastic in yellow containers, aluminum cans and glass in green containers and organic waste in red containers in Campus (Alexandria University, Egypt).
- The separated organic waste is mainly food waste, manure, green waste arises from landscaping consists of leaves green plants garden trimmings and others, biodegradable plastic and non hazardous wood waste.
- The Faculty of Agriculture recycles 100% of its organic waste.
 - Utilizing treated agricultural waste to feed farm animals.
 - Utilizing agricultural waste treated with vermi-compost in the production of organic fertilizers.
 - Utilizing agricultural waste treated with a special insect (the black soldier) to produce organic fertilizers and protein sources.
 - Producing large quantities of active biochar from agricultural waste to remove any water impurities or pesticide residues.
- 1- The organic waste in Alexandria University is handled according to the contract with Nahdet Misr company. All organic waste is collected in organic waste containers. Then the company collects these waste bags and deliver it to a waste treatment facility for processing.
- 2- In addition, the University students at the Faculty of Science initiated a student project for organic waste recycling. Leaves and organic waste were treated for the vermi-compost to produce organic fertilizers to use in the Campus gardens (Alexandria University).
- Approximately in year 2024, **235 tons of waste per year** were collected at the level of university buildings with Nahdet Misr company and separated into organic waste and inorganic waste. **Organic waste constitutes about 55% of the total waste** collected from the campus where 100% were recycled to produce organic compost.
- Types of fertilizers produced after treating organic waste at Nahdet Misr Company:
 - 14 mm fine organic fertilizer for vegetables.
 - 25 mm organic fertilizer is used as tree fertilizer.
 - 40 mm organic fertilizer is used as fertilizer for new planted areas.
 - All previous types are suitable for desert lands.

Total volume organic waste produced

Total Volume Organic Waste Produced					
Type of waste	amount (ton) per Year (2023-2024)				
	total		reduced		reused
	2023	2024	2023	2024	
organic	229 tons	235	22 tons	23.8 tons	58 tons organic fertilizers 8 tons animals feeding and biochar



Leaves and organic waste were treated for the vermi-compost to produce organic fertilizers to use in the Campus gardens (Alexandria University).



The Faculty of Agriculture recycles 100% of its organic waste (Alexandria University).

The University Strategy for Treatment of Inorganic Waste

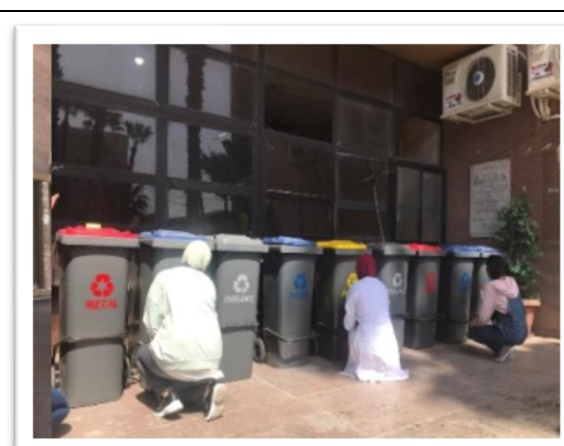
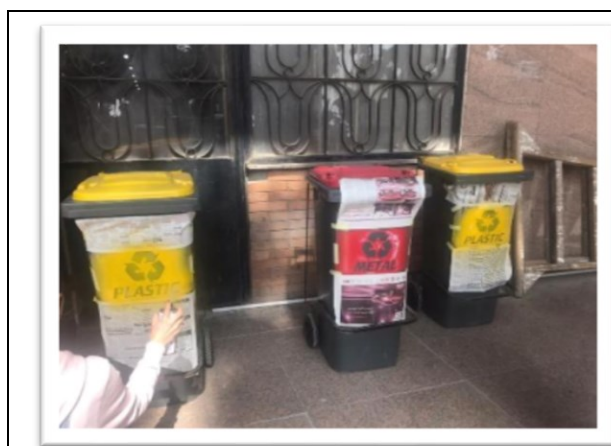
- 1- In general, the inorganic waste in the University is divided into two types including:
 - **Non-medical waste:**
Products which are collected and stored in a far place in the faculties which are then removed to a general dump for recycling, examples: papers, plastics, aluminium and glasses.
Heavy metal: Heavy metal waste consists of both materials and equipment with metals and derivatives, examples: Batteries, amalgam, broken mercury thermometers.
 - **Medical waste:**
Medical waste consists of several different subcategories that should all be dealt with in the same way:
Potential infectious waste includes all waste items that are contaminated with or suspected of being contaminated with body fluids.

Examples include: Blood and blood products, used catheters and gloves.

2. Inorganic Wastes are collected in separate containers labelled for inorganic waste. The garbage bags are collected daily by Nahdet Misr company for processing.
3. Approximately **185 tons of waste per year** were collected at the level of university buildings with Nahdet Misr company and separated into organic waste and inorganic waste. **Inorganic waste constitutes about 45% of the total waste** collected from the campus where 70% were recycled while the rest 30% were transported to Alexandria Governorate Hazardous Waste Management (NASERIA) for their disposal.
4. Batteries and other E-wastes are collected separately inside Alexandria University Campus and are delivered for special treatment by Nahdet Misr company. The E-Material are never trashed into a regular trash.
5. The University follows the Egyptian laws associated with disposal of hard materials waste No. (6) for the year 2009 and No. (9) for the year 1982 concerning with environment protection. Alexandria University has a yearly contract with Alexandria Governorate Hazardous Waste Management (NASERIA) for the disposal of Inorganic Waste.
6. By Nahdet Misr company, 10% of the sorted items in the form of paper, plastic, aluminium and glass are recycled, 60% of the collected inorganic waste are recycled in the form of alternative fuel (RDF), which is used in cement factories instead of diesel while the rest 30% are transported to Alexandria Governorate Hazardous Waste Management (NASERIA) to be buried in landfills.

Total volume inorganic waste produced

Type of waste	amuount (ton) per Year (2023-2024)					
	total		reduced		reused	
	2023	2024	2023	2024	2023	2024
Inorganic non-toxic	187 tons	185 tons	15 tons	17 tons	131 tons	133 tons



Recycling Program for University Waste (Alexandria University, Egypt)



Program for separation of Plastic (blue), Paper (green), Aluminum Cans (red) and General (black) in the Faculty of Medicine and Pharmacy (Alexandria University, Egypt)



Recycling of plastic waste at the Faculty of Science (Alexandria University, Egypt)





On May 27, 2024, Alexandria University Inaugurates Fab Lab for Reusing Recycled Plastic, for Reusing Recycled Plastic (PECA) as part of Egypt's Sustainable Development Strategy (Vision 2030). The event was attended by dignitaries, including the Consul General of France in Alexandria and representatives from various educational and environmental organizations. The PECA project aims to address plastic waste in the Mediterranean Sea by establishing a digital manufacturing laboratory that will facilitate the collection, sorting, and recycling of plastic waste to create prototypes and new products, thereby reducing plastic pollution in Alexandria.





Students from various schools in Alexandria, alongside those from the French Institute, participated in a large-scale cleanup campaign at Anfouchi beach titled "Our Sea is Clean Without Trash 🌿♻️." Following the cleanup, participants explored the process of transforming plastic waste into usable materials through 3D printing at the Fab Lab at Alexandria University. This initiative is part of the "Circular Economy: From the Beach to the Lab" project, led by the French Consulate and the French Institute, with financial backing from the European Union and collaboration with the Alexandria Governorate. The project aims to foster partnerships for sustainability and actively engage the local community in environmental efforts.

Alexandria University program to reduce the use of paper and plastic in campus

Program 1: Development of electronic archiving system; the university faculties and the main campus are moving toward the electronic archiving system to reduce paper consumption.

Program 2: University decrees to reduce the use of paper in the campus:

2.1: The president decree to use the e-mails for communications inside the campus and between the university main campus and all the other campuses.

2.2: In the situations, the university or any of its faculties need to print the official documents; this has to be on recycled paper (2 faces copy).

2.3: The University formulated a community for administrative reform to minimize the administrative processes and decrease the use of papers except in who are relevant to financial process.

Program 3: Digital transformation toward electronic exams to reduce paper consumption.

Program 4: Digital transformation toward electronic course to reduce paper consumption and books printing.

Program 5: Electronic administration of student courses by about 50% instead of written administration to reduce paper consumption.

Alexandria University Strategy for Disposal of Toxic Waste

1. The biohazards, medical hazards, and toxic chemical compounds are handled by a **special contract** with **Alexandria Governorate Hazardous Waste Management (NASERIA)**, which process these wastes according to the Egyptian law number 6 for year 2009 and low number 9 for year 1982. (attached Contract copy).
 - Medical waste:
Medical waste consists of several different subcategories that should all be dealt with in the same way: Potential infectious waste includes all waste items that are contaminated with or suspected of being contaminated with body fluids.
Examples include: Blood and its derivatives, catheters, and used gloves.
2. Batteries and other E-wastes are collected separately inside Alexandria University Campus and are delivered for special treatment by Nahdet Misr company. The E-Material are never trashed into a regular trash.
3. Approximately **3.09 tons of toxic waste in year 2024**, which consist of 100% toxic waste such as biohazards, medical hazards, and toxic chemical compounds of the university buildings are transported to Alexandria Governorate Hazardous Waste Management (NASERIA) to be buried in landfills.

Total volume toxic waste produced

Type of waste	Amount (ton) / year			
	Total (2022)	Total (2023)	Reduced (2022)	Reduced (2023)
Total Toxic wastes	2.69	3.09	0.1	0.3
- Biohazard	1.190	0.24	0.05	0.01
- Electronics	0.5	1.55	0.01	0.19
- Lab. Chemicals	1.0	1.30	0.04	0.10



Recycling of Solid and Electronic Waste in the Faculties and Institutes of Alexandria University

According to the decision of Alexandria University to transfer all solid waste to institutes, colleges, hospitals and university cities of the University at the Agricultural Research and Experiments Station in Abis as a central storehouse for the collection of iron priests (Wood - Iron - Alumetal - Computers - Projectors - Photocopiers - Printers - Fire Extinguishers - Doors - windows - wires, lighting poles, electric panels.....etc.), which are considered valuable solid waste worth recycling.

Recycling of solid waste is a good investment project, and with the increase of environmental awareness worldwide, the demand of recycled materials will rise. Alexandria University can save production and energy costs and reduce the negative impacts that the extraction and processing of virgin materials has on the environment.

Recycling old devices saves energy. It also means that fewer raw materials need to be drawn from nature to create new devices. Reusing old devices prevents e-waste by keeping it out of landfills.

The environmental aspect: The process of recycling solid and electronic waste mainly contributes to reducing the percentage of pollution of all kinds, by reducing the accumulation of waste, which contribute greatly in pollution of the environment due to the release of polluting gases and toxic elements in the air, water, and land. The process of recycling solid and electronic waste contributes in reducing the impact of human activity on the planet Earth.

Economic aspect: The process of recycling solid and electronic waste plays an important role in the reduction of economic expenditures, helping countries to meet the challenges related to the high prices of raw materials such as oil and coal. Recycling reduces the reliance on the export of the primary resources of many industries, thus reducing the cost of production. Which result in lower bill of taxes, customs duties, insurance premiums, transportation. On the other hand, the recycling process helps in reducing the consumption of natural raw materials used in different industries. Accordingly, the Energy consumption for manufacturing and production processes will be reduced.

The treatment Program

- A specialized committee is selected including a member from the Engineering Department, according to the devices or tools under investigation.
- In case the devices are not useful, the committee recommends that the items will be transferred to the Agricultural Research and Experiments Station in Abis.
- Recycling warehouses are divided into sections according to the type of materials being recycled, for example: Calculators, printers, wood, Aluminum, etc.
- Working teams are selected from the university faculties' maintenance units to benefit from these solid and electronic waste.



Recycling Program for both materials and equipment with metals and derivatives (Alexandria University, Egypt)



Students from the Faculty of Fine Arts at Alexandria University are transforming environmental waste into distinctive artistic murals. As part of a community service initiative, they created a sports mural on the university stadium wall, involving 16 students from the mural photography department. The project aims to recycle discarded materials for aesthetic public works, promoting sustainability. Mosaics were used in the mural's completion, while second-year decoration students also created models from waste wood and scrap to enhance the beauty of Alexandria, revitalizing the coastal city through their artistic efforts.

Alexandria University program for Sewage Disposal

- Providing a sewage treatment plant at the university to make it suitable for irrigating green areas and gardens inside the university campus.
- The irrigated water supplied to the fish farm at the Agriculture Experimental Research Station of the Faculty of Agriculture is recycled to irrigate the crops, vegetables, and fruits of the land farm. The recycled water is rich with natural fertilizers and enhances the crops production.
- In addition, the water recycling in Fish Aquaculture of the Faculty of Agriculture, Alexandria University: The water sewage of the Aquaculture of the Faculty of Agriculture, Alexandria University which consist of eight ponds (one

acre and quarter/each) in Abis region. Alexandria University used the recycled water for crops culturing in the adjacent agriculture research center in Abis.

- The use of biochar produced from Agricultural waste and waste Forests in residual removal chlorpyrifos pesticide Imidacloprid is from water agricultural drainage. Cooperation project between the Egyptian Academy of Research Science and Technology and the Czech Academy of Sciences.
- The sewage water will be treated and reused in the irrigation of green areas in Alexandria National University.
- Faculty of Pharmacy is seeking to implement a grey water (wastewater) recycling system that depends on reusing wastewater from sewage basins only (without using wastewater from laboratory basins) by repumping it into the flushing bins in the toilets after work. Filtration and primary treatment. The grey water recycling initiative has a significant impact on rationalizing water use.



**The water sewage of the Aquaculture of the Faculty of Agriculture (Alexandria University, Egypt)
The irrigated water supplied to the fish farm at the Agriculture Experimental Research Station of the Faculty of
Agriculture is recycled to irrigate the crops, vegetables, and fruits of the land farm.**



Wastewater treatment unit at Faculty of Engineering



The sewage water will be treated and reused in the irrigation of green areas in the project (Alexandria University)

Treatment of Alexandria University Sewage by Alexandria Sanitation Company

An amount of water of **1,240,575.5 m³** is consumed by all faculties and institutes affiliated with the Alexandria University, of which the amount of sewage is **1,116,625.26 m³**, which is lifted through a group of lifting stations to be treated through treatment stations affiliated with the Alexandria Sanitation Company.

1. Secondary biological treatment, where solid waste is separated from liquid waste.
2. **Treated water:** As for the water resulting from first treatment, it is reused within the New Delta Project (the value of the reused water for Alexandria University represents **1,116,625.26 m³**).
3. The Tertiary treatment for use in land reclamation with a design capacity of 7.3 million m³, include 1.7 million cubic meters of treated wastewater form the secondary treatment.



Second treatment of Alexandria University Sewage by Alexandria Sanitation Company




Green Cycle Project in Faculty of Pharmacy – Alexandria University

The Faculty is advancing the “Green Circle” project, which is a non-profit project that seeks to keep the environment clean and green in a sustainable way by separating waste for recycling and establishing charitable markets to benefit from used clothes. Also, the faculty is seriously seeking to implement a grey water (wastewater) recycling system that depends on reusing wastewater from sewage basins only (without using wastewater from laboratory basins) by re-pumping it into the flushing bins in the toilets after work. Filtration and primary treatment.


Planning, implementation, monitoring and/or evaluation of all programs related to Waste Management through the utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Campus-Wide Awareness and Education about 3R strategy, Smart Waste Monitoring Systems in the campus	Digital Signage Mobile, Applications for Waste Management	Strategic plan documents	Jan 2024 - May 2024	GreenMetric Team of Alexandria University
Implementation	Use Digital Signage, Train students, Install recycling bins, initiate waste segregation	Waste management software	Waste segregation reports	Ongoing	Administrative Office, ICT Dept, + Students of the computer science, AI, Programming
Monitoring	Track waste collection and recycling rates	Smart waste bins	Recycling rate reports, efficiency analytics	Ongoing	Administrative Office, GreenMetric Team of Alexandria University
Evaluation	Assess effectiveness of 3R program	Data Collection	Program evaluation reports	Annually	Information and Documentation Center for Decision Support at Alexandria University



WASTE MANAGEMENT

RECYCLABLE WASTE ONLY




ORGANIC PAPER E-WASTE PLASTIC GLASS METAL MIXED WASTE

Waste Recycling Digital Signage




Install recycling bins and initiate waste segregation



Green Cycle App Features:

- Personal Profile Green Coins
- Environmental events and activities
- Map to recycling points
- Reporting environmental issue




Maps of Recycling Points:

- الدور الثالث مبنى جديد
- الدور السادس مبنى جديد
- الدور الرابع مبنى القديم
- الدور الخامس مبنى القديم



Green Points Gain:

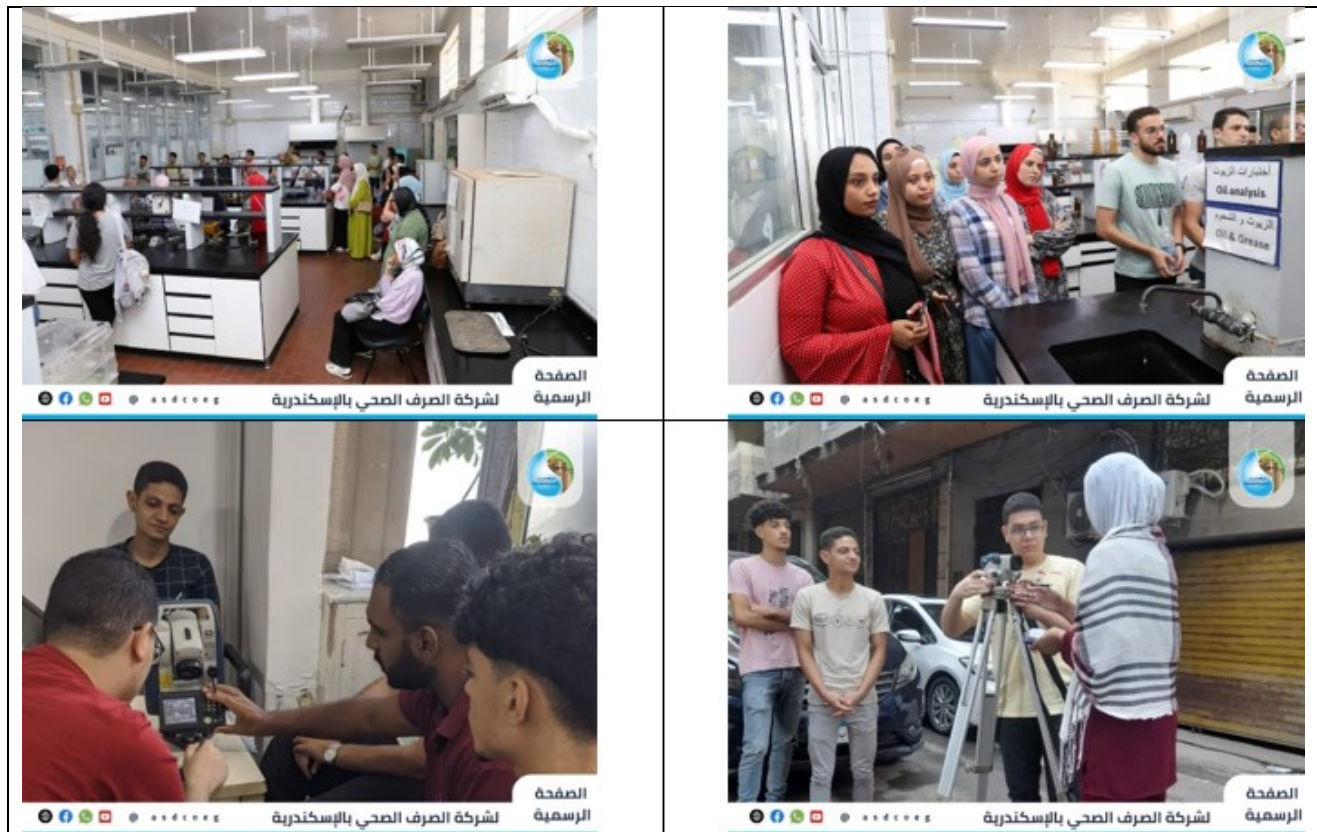
Event	Points	Material
registration	At 50	
action	Every 5	
Organizer	200	
Participant	For 10	each Kilo of recyclable materials



Redeem Rewards:

Rank	Reward
1st-5th	Free PHS Registration
6th-10th	50% Discount on a Workshop of Choice
11th-15th	30% Discount on a Workshop of Choice

The GreenCycle application allows users to create a profile and earn green points with every contribution they make to the system. The app sends notifications for upcoming events and includes comprehensive maps of recycling stations. It also enables users to share ideas or report environmental violations. Additionally, the app features a points collection and redemption system, allowing students to exchange their points for rewards such as conference registrations or discounts on workshops.



Raising awareness among Alexandria University students about wastewater treatment was achieved through summer training activities conducted at Alexandria Sewerage for students from various faculties, including Science, Engineering, Commerce, Arts, and Fine Arts (Architecture)

Description:

- Planning:** Utilize digital signage by installing interactive digital boards across the campus to display real-time data on waste management, recycling statistics, and environmental impact. Implement initiatives through Alexandria university portals to educate students about the impact of proper waste management, the importance of reducing waste, and how technology aids sustainability.
- Implementation:** Install recycling bins throughout the campus and initiate waste segregation programs. Develop a mobile app to engage students and staff in recycling efforts. The app can provide information on waste segregation, locate recycling stations, and offer sustainability tips. In addition, the app introduces reward-based systems where students and faculty can earn points or rewards for recycling properly or participating in clean-up initiatives.
 - Raising awareness among Alexandria University students about wastewater treatment was accomplished through summer training activities conducted at Alexandria Sewerage for students from various faculties, including Science, Engineering, Commerce, Arts, and Fine Arts (Architecture). In September 2024, the summer training for students from the Faculty of Arts (Department of Surveying, Mapping, and Geographic Information Systems) began with theoretical sessions covering surveying applications, urban planning and infrastructure, marine surveying, geographic and Cartesian coordinate systems and their uses, types of errors in surveying measurements, and methods for reducing them. The practical training included working with leveling instruments, using the total station "Sokkia FX," and training on GPS devices and their principles of operation. The training concluded with an introduction to the ArcGIS program, instructions on how to create maps, and a general overview of sewage systems, sources of waste, design criteria for sewage networks, and methods for draining wastewater.
- Monitoring:** Track the collection and recycling rates of waste. Use smart waste bins equipped with real-time tracking software to monitor waste collection.

- **Evaluation:** Assess the effectiveness of the 3R program. Utilize data analysis tools and feedback systems to evaluate the program. Employ ICT tools to gather data on waste generation across different campus zones, and track patterns based on time, events, or academic sessions to optimize collection routes and frequency.

[4] Water (WR)

Water Conservation Program Implementation

Alexandria University program to decrease the water consumption in its faculties and buildings:

Campus water use is an important indicator in the sustainability scale. The aim is to urge universities to reduce water use, increase water conservation programs, and protect the environment. Among these criteria:

- The water conservation program,
- The water recycling program
- The use of water-saving equipment
- The treatment of wastewater
- The rainwater collection program



1. The University has applied a strategy in the faculties to decrease water consumption through installation of special parts on water taps, showers, toilette and bathroom bidet which can conserve about 50% of water consumption.
2. Water saving devices are used instead of traditional devices. For example, the use of a hand-washing faucet with automatic control via a sensor, and high-efficiency bathroom devices. Supplying water taps with water conservation units.
3. Adopting a mechanism to maintain water pipes to prevent waste resulting from leaks.
4. Adopting plans and mechanisms for maintaining the taps and internal supply networks of the university to prevent water wastage.
5. Air conditioning water collection and reuse unit in Faculty of Engineering.
6. Wastewater treatment unit at the Faculty of Engineering
7. Providing a sewage treatment plant at the university to make it suitable for irrigating green areas and gardens inside the university campus.
8. Innovative Renewable Energy RE-Multi-stage flash system (MSF) with salt precipitator and nanofiltration (NF-MSF) to pre-treat feedwater (RE-NF-MSF) by Faculty of Agriculture, Alexandria University
9. A 100 m³ desalination unit in Wadi Natroun (Faculty of Agriculture, Alexandria University)
10. The irrigated water supplied to the fish farm at the Agriculture Experimental Research Station of the Faculty of Agriculture is recycled to irrigate the crops, vegetables, and fruits of the land farm. The recycled water is rich with natural fertilizers and enhances the crops production.
11. In addition, the water recycling in Fish Aquaculture of the Faculty of Agriculture, Alexandria University: The water sewage of the Aquaculture of the Faculty of Agriculture, Alexandria University which consist of eight ponds (one acre and quarter/each) in Abis region. Alexandria University used the recycled water for crops culturing in the adjacent agriculture research center in Abis.
12. The use of biochar produced from Agricultural waste and waste Forests in residual removal chlorpyrifos pesticide Imidacloprid is from water agricultural drainage. Cooperation project between the Egyptian Academy of Research Science and Technology and the Czech Academy of Sciences.
13. IOT Pilot Project in Egypt by Shanghai Water Saving Irrigation Corp. Etd performed an automatic controlled irrigation systems IOT project for modern irrigation technology. The company implanted the IOT platform project to irrigate economic crops and facilitate irrigation systems to overcome the water shortage problems in Egypt. This project will be performed in Alexandria University Farm for agroecological farming in Egypt.
14. Raising awareness among university staff and students about water conservation through seminars and workshops organized in collaboration with the Alexandria Drinking Water Company, in order to Strengthen the means of implementation and revitalize the global partnership for sustainable development.

15. The faculty members from the Faculty of Engineering are offering their expertise and advice on the construction of the Mahmoudiyah axis. These engineering consultations may include technical guidance, design recommendations, structural assessments, and other professional input to ensure the project's success, safety, and efficiency throughout the construction process.
16. The Faculty of Pharmacy won the third place in the Alexandria Governorate for the National Initiative for Green Smart Projects in its third edition (2024) with its 'Green Cycle' project, competing in the category of non-profit community initiatives and participations. Notably, this project has now won for the second consecutive year, having previously achieved first place in the Alexandria Governorate last year.
17. Raising awareness among Alexandria University students from various faculties—including Science, Engineering (Civil, Mechanical, and Mechatronics), Commerce, Arts (Surveying, mapping, and GIS), and Fine Arts (Architecture)—about wastewater treatment was achieved through summer training and periodic visits to the laboratories of the Alexandria Sewerage Company. This effort supports the achievement of the Sustainable Development Goals by enhancing partnerships for sustainable development and fostering collaborations that mobilize and share knowledge, expertise, and technology. The training aimed to provide students with essential scientific skills and practical experience to prepare them for the job market (September 2024).
 - **Faculty of Science:** Theoretical training introduced the role of the Sewerage Company, while practical training involved visits to treatment plants, central laboratories, and lectures on occupational safety and industrial sewage.
 - **Faculty of Arts (Surveying, mapping, and GIS):** Training included surveying applications, urban planning, and the practical use of leveling instruments, total stations, and GPS devices, concluding with lessons on ArcGIS and sewage system design.
 - **Engineering Colleges:** Civil Engineering students trained in network renewal and design, while Mechanical and Mechatronics students learned about pump components, welding, and electrical generators, with visits to various workshops.
 - **Fine Arts (Architecture):** Students received training on project design drawings and estimating costs.

https://www.facebook.com/profile/100068944998517/search?q=%D8%A7%D9%84%D8%B9%D9%84%D9%88%D9%85&locale=ar_AR

18. The Center of Excellence for Water is organizing a training program for scholarship students. This training is conducted in collaboration between the Water Excellence Center at Alexandria University and EPROM Company to provide a course for a group of students from the Water Excellence Center. This initiative reflects Alexandria University's commitment to equipping its students with practical skills related to water management, ensuring they possess the competencies needed by the business sector while aligning their studies with labor market requirements. The Center of Excellence for Water at Alexandria University has organized a training program for students in the Water Excellence Center Scholarship and the Civil and Environmental Engineering Program. Alexandria University, EPROM Company, and the students are participating in the following two training programs:

- **Water Treatment for Industrial Applications**
- **Wastewater Plant Operations and Troubleshooting.**

19. **Green Cycle project in the Faculty of Pharmacy - Alexandria University**

The project began in October 2022 by organizing a number of events in cooperation between the Community Service and Environmental Development Committee, ASPSA, and the Alexandria Rotary Clubs, under the supervision and organization of Faculty of Pharmacy - Alexandria University.

Also, the faculty is seriously seeking to implement a grey water (wastewater) recycling system that depends on reusing wastewater from sewage basins only (without using wastewater from laboratory basins) by re-pumping it into the flushing bins in the toilets after work. Filtration and primary treatment. The grey water recycling initiative has a significant impact on rationalizing water use.

Also, taking advantage of rainwater for use in irrigation and regulatory operations.

Alexandria University have generalized this initiative in some of the faculties of Alexandria University in gradual stages.

20. **Integrated strategy Project for rainwater management in Alexandria Governorate in cooperation with Alexandria University**

Remote sensing technology was used to know the current values of Rain and assess the current situation with the help of satellites. This is done with the help of the following artificial satellites:

-TRMM and GPM are two of the NASA satellites. (Administration National Aeronautics and Space Administration, United States of America)

- NOAA (National Oceanic, Atmospheric, and Space Administration, United States of America)
- NCEI (National Center for Environmental Information in the United States of America)

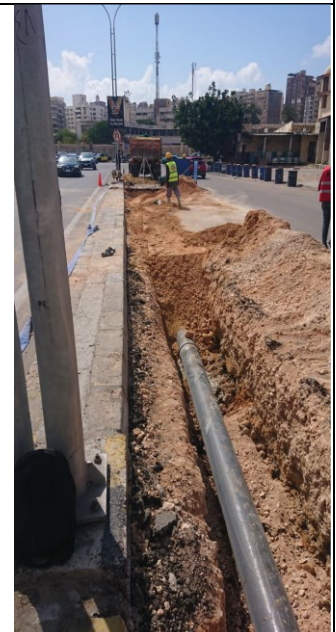
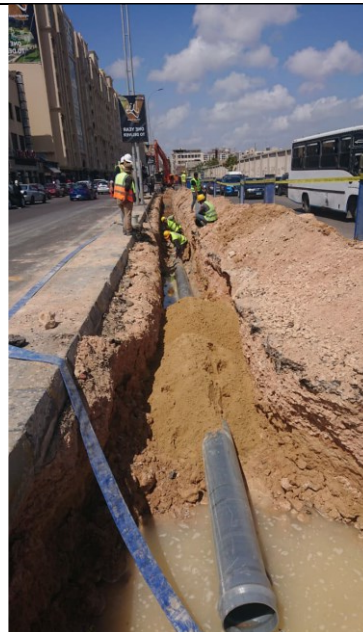
Proposed rain management strategy

A separate network will be created to drain rainwater for the nearest body of water for areas close to the body of water. The first area is the Corniche, where rainwater is collected and discharging it into marine estuaries. The second area is on both sides of the Mahmoudiyah and Beheira axis near the airport. The rainwater is collected and part of it is drained on the canal and the other part on the airport lake. In the third stage of the project, the two projects on the airport lake to exploit rainwater will be linked to the New Delta project. The rainwater will be used to irrigate the crops, vegetables, and fruits in the New Delta.





Integrated strategy project for rainwater management in Alexandria Governorate in cooperation with Alexandria University



Integrated strategy project for rainwater management in Alexandria Governorate in cooperation with Alexandria University



Before performing the integrated strategy project



After performing the integrated strategy project
Mahmoudiyah Axis Project before and after performing the project

21. Elements of Green Building Implementation as Reflected in all new construction and renovation policies in the new buildings in Abis campus:

- The area of the project is 160 acres, a general site for educational buildings, and 120 acres are complementary activities. The percentage of green areas and lake is about 52% in addition to 25% streets and lanes.
- Water-saving plots are used, which will reduce water consumption by about 30%. The sewage water will be treated and reused in the irrigation of green areas in the project.
- Wastewater will be treated and reused to irrigate green areas in the project.
- Rainwater is collected in the main lake and used for irrigation.
- The use of plants with few water rationed plants to reduce irrigation needs in addition to absorbing quantities of rainwater to reduce the severity of rain spells.



Supplying water taps with water conservation units
(Alexandria University, Egypt)



Adopting a mechanism to maintain water pipes to prevent waste resulting from leaks (Alexandria University, Egypt)



Air conditioning water collection and reuse unit - Faculty of Engineering



Wastewater treatment unit at the Faculty of Engineering



Green Cycle

Rooftop Cultivation



Grey water recycling system organized by Faculty of Pharmacy (Alexandria University, Egypt), and reused in rooftop cultivation

Renewable Energy and Water Desalination Activities at Alexandria University

Renewable Energy Center site is a host of different RE technologies and different RE-Desalination technologies. The site “East of EL-Gaar Village” at Wadi El-Natroon has both predictable wind energy as well as an abundance of sunlight. Thus, this is a natural application for a hybrid system. The modular hybrid power supply concept proposes the coupling of all sources of energy, storage media and loads on the AC-side.



Advantages of the Modular Hybrid RE systems:

- Simplicity in System Design
- Expandable, can be run autonomously or be connected to a larger grid
- Offer higher reliability and supply security
- Lower power cost for the consumers
- Production of AC single phase or three phase
- The AC-side structure provides standardization, quality assurance and serial production
- The coupling on the generation technologies on the AC side offers the possibility of placing the generators far apart from each other (distributed generation).

REC site is planned to be a host of different RE technologies and different RE-Desalination technologies such as:

- Hybrid RE technologies (solar, wind, biomass, Hydrogen and fuel cell)
- Hybrid Desalination technologies (RO, MSF, NF,... Etc)
- Different types of solar cell technologies (thin film, Mono crystalline, Polycrystalline cells)
- Different solar energy technology (PV, CSP, Solar water heating systems, solar dryers)
- Solar Greenhouses.

Activity: Innovative Renewable Energy (RE) Driven - Multi Stage Flash (MSF) System with Salts Precipitator and Nano Filtration (NF) Feed Water pre Treatment (RE-NF-MSF)-, contract # RDI - C2/S1/148.



100 m3 Desalination Unit, Wadi El-Natroon (Faculty of Agriculture, Alexandria University)



Innovative Renewable Energy (RE) Driven - Multi Stage Flash (MSF) System with Salts Precipitator and Nano Filtration (NF) Feed Water pre Treatment (RE-NF-MSF). (Faculty of Agriculture, Alexandria University)

Water Excellence Center - Alexandria University

The Center of Excellence for Water is a USAID- funded program, managed by the American University in Cairo.

Its goal is to catalyze long-term improvement in Egyptian water resources management by improving its innovative applied research and educated enterprise.

Located at Alexandria University, and in cooperation with four Egyptian Universities (Ain Shams University – Aswan University – Beni Suf University – Zagazig University) and four U.S. Universities (University of California, Santa Cruz, Temple University, Utah State University, and Washington State University).

The Center of Excellence for Water is designed to be a state-of-the-art center that raises the quality of all aspects of higher education, including curriculum, teaching, and applied research to international standards.

The Center supports the Egyptian government, academia, and industry to address water challenges, and prepare a new generation of graduates and entrepreneurs to be change agents that stimulate economic growth.

Leveraging on the public-private partnerships established, the Center of Excellence for Water will be the hub for research and a vibrant network of Egyptian industries, research centers, and ministries.



Water Excellence Center - Alexandria University

Training for civil and environmental engineering students at the Eastern Wastewater Treatment Plant in Alexandria

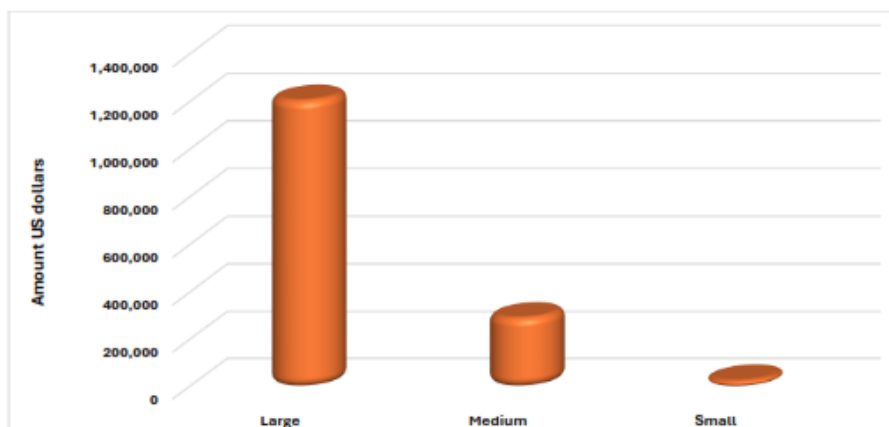
Link: <https://www.coew-grantportal.info/#/landing>

The following tables illustrate the projects funded through the Water Excellence Center – Alexandria University.

Center of Excellence for Water

First Call Projects

Type	No.	Amount in US dollars	Amount in Egyptian pound
Large Size Projects	5	1,209,183	37,275,726
Medium Size Projects	6	296,245	9,132,404
Small Size Projects	3	29,500	909,402.4
Total	14	1,534,928	47,317,532



Center of Excellence for Water

No.	Name of Egyptian PI	Name of US PI	Project Title	Budget	Size
Large size projects					
1	(Ain Shams University)	(American University in Cairo)	Sustainable Low-cost Solution for Decentralized Sanitation System in Rural Egypt	215,000	Large
2	(Ain Shams University)	(American University in Cairo)	Using AI Tools to Optimize the Development of Novel Nano-enhanced Membranes for Water Desalination	250,000	Large
3	(Ain Shams University)	(Washington State University)	SMART Irrigation for Maximizing Water Use Efficiency (SIMWUE)	250,000	Large
4	(Beni Suef University)	(American University in Cairo)	Tailored enzymatic and nano-based treatment of wastewater to detoxify heavy metals and degrade antibiotics	250,000	Large
5	(Zagazig University)	(American University in Cairo)	Reducing pollution intensity in Egyptian drains using innovative techniques of electric coagulation using Direct Current by solar cell	244,183	Large
Medium size projects					
6	(Ain Shams University)		Low Cost Technology for Treating Industrial Wastewater for Irrigation Purposes	50,000	Medium
7	(Ain Shams University)		Optimizing Crop-Water Productivity Using Remote Sensing and Multi-Sources Data (WatSens)	46,400	Medium

Center of Excellence for Water

8	(Ain Shams University)		Solar Driven, Low Cost, Water Desalination Unit with Minimum Environmental Impact SLoW ME	50,000	Medium
9	(Alexandria University)		Domestic Greywater Treatment and Reuse Prototype	49,845	Medium
10	(Beni Suef University)		Fabrication of hybrid treatment and desalination system for oily wastewater treatment using MOFs composites - Experimental and computational studies	50,000	Medium
11	(Beni Suef University)		For an Integrated Brackish Water Desalination System - The Application of Water Incompatibility in Siwa Oasis as an Innovative strategy for the Production of Low-Cost Irrigation Water using Eco-Friendly Nano-Filtration Self-Cleaning System	50,000	Medium
Small size projects					
12	(Beni Suef University)		Large-scale and sustainable synthesis of commercially feasible TiO ₂ /GO nanostructured thin-film composite-based forward osmosis membranes for water desalination (TG-PES-Memb)	9,500	Small
13	(Beni Suef University)		Sensing heavy metals in drinking water using nanophotonic structure	10,000	Small
14	(Beni Suef University)		Salinity sensor for desalination method using photonic crystals	10,000	Small

Center of Excellence for Water

Alexandria University Project (Accepted but didn't get administration approval)					
1	(Alexandria University)		Continuous Membrane Fabrication Module via Solvent or Emersion Casting technique for Desalination system by the application of Pervaporaton (PV) or Membrane Distillation(MD) techniques. (CMFM)	47,000	Medium
2	(Alexandria University)		Treatment of refinery waste by a novel supported solar photocatalyst system enabling zero liquid discharge	37,100	Medium
3	(Alexandria University)		Design of thermally-localized successive evaporation-condensation desalination unit (TSEC)	10,000	Small

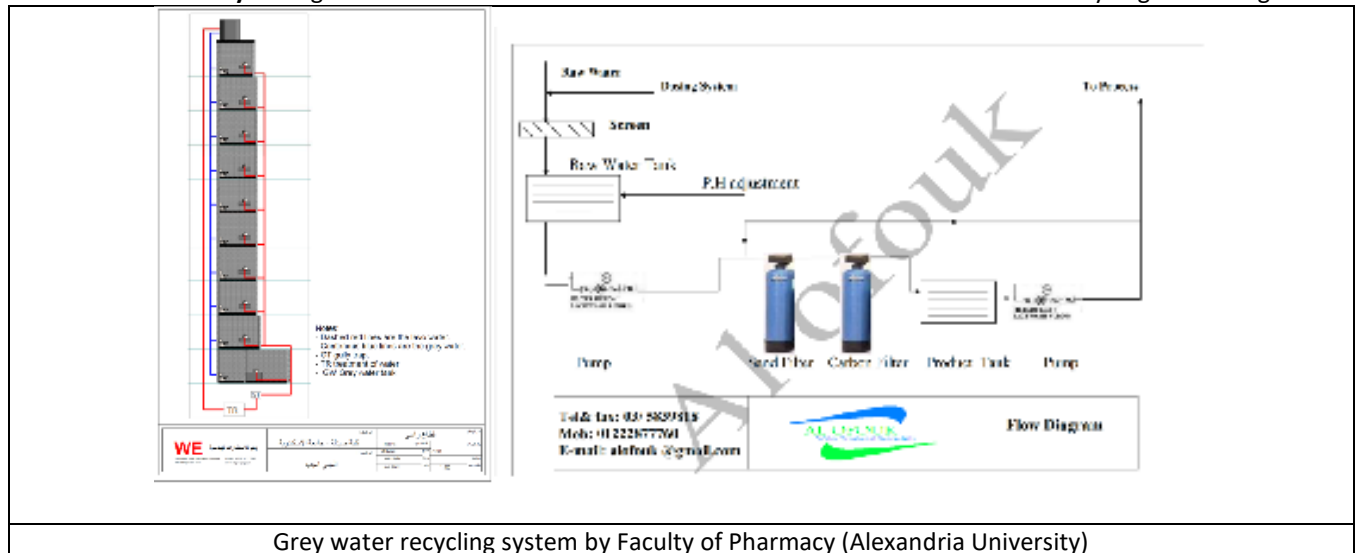
Green Cycle project in the Faculty of Pharmacy - Alexandria University

The project began in October 2022 by organizing a number of events in cooperation between the Community Service and Environmental Development Committee, ASPSA, and the Alexandria Rotary Clubs, under the supervision and organization of Faculty of Pharmacy - Alexandria University.

Also, the faculty is seriously seeking to implement a grey water (wastewater) recycling system that depends on reusing wastewater from sewage basins only (without using wastewater from laboratory basins) by re-pumping it into the flushing bins in the toilets after work. Filtration and primary treatment. The grey water recycling initiative has a significant impact on rationalizing water use.

Also, taking advantage of rainwater for use in irrigation and regulatory operations.

Alexandria University have generalized this initiative in some of the faculties of Alexandria University in gradual stages.



Grey water recycling system by Faculty of Pharmacy (Alexandria University)

Reused water at Alexandria University

An amount of water of 967,694.74 is consumed by all colleges and institutes affiliated with the Alexandria University, of which the amount of sewage is 870,925,266 m³, which is lifted through a group of lifting stations to be treated through treatment stations affiliated with the Alexandria Sanitation Company.

1. Secondary biological treatment, where solid waste is separated from liquid waste.
2. **Treated water:** As for the water resulting from first treatment, it is reused within the New Delta Project (the value of the reused water for Alexandria University represents 870,925.266 m³).
3. The Tertiary treatment for use in land reclamation with a design capacity of 7.3 million m³, include 1.7 million cubic meters of treated wastewater form the secondary treatment.



Reused water at Alexandria University

An amount of water of **1,240,575.5 m³** is consumed by all colleges and institutes affiliated with the Alexandria University, of which the amount of sewage is **1,116,625.26 m³**, which is lifted through a group of lifting stations to be treated through treatment stations affiliated with the Alexandria Sanitation Company. Secondary biological treatment, where solid waste is separated from liquid waste.

Water Efficient Appliances Usage

Some examples of water conservation measures include, low flow of urinal flushing, low flow of toilet flushing and low flow taps.

Appliance	Total Number	Total number water Efficient appliances	Percentage
Urinal	208	100	48%
Toilet	416	180	43%
bathroom faucets (Water taps)	1605	1090	68%
Showers	30	20	67%
		Average Percentage	56.5%

Water pollution control in campus area

The campus water pollution control to prevent polluted water from entering the water system is performed. Alexandria University has two accredited laboratories for the regular check water quality (Physical, Chemical parameters) on your campus. In addition, the biological parameters are analyzed by the Microbiology Professor and staff members regularly.

Water quality analysis and monitoring at Alexandria University.

- Accreditation Certificate of Central Laboratory – Faculty of Science (Alexandria University).
- Scope of accreditation of Central Laboratory – Faculty of Science (Alexandria University).

Link: <https://egac.gov.eg/en/entity-details/?tc=zDpiq4iYvXxjCBxe9Mex3BDnqYZUXluCsMUxJeFd>

- Scope of Accreditation of Institute of Graduate Studies and Research (Alexandria University)

Wastewater Treatment

Alexandria University has a system to prevent polluted water to enter the water system through Water quality analysis and monitoring.

The recycled irrigated water supplied to the fish farm at the Agriculture Experimental Research Station of the Faculty of Agriculture, is analyzed before using it to irrigate the crops, vegetables, and fruits of the land farm. In addition, the recycled water is used for crops culturing in the adjacent agriculture research center in Abis.

Guideline standard

Standard Methods for the Examination of Water and wastewater 22 edition (APHA).



Water quality analysis and monitoring at Alexandria University Accreditation Certificate of Central Laboratory – Faculty of Science (Alexandria University)

Ministry of
Trade and Industry
Egyptian Accreditation Council
EGAC



وزارة التجارة والصناعة
المجلس الوطني للإقتصاد
إيجاك

Schedule of Accreditation for Testing Laboratory According to ISO/IEC 17025 Issued to

ICP-OES Laboratory
Institute of Graduate Studies and Research Alexandria University
(163) Horryia Avenue Shatby
Alexandria Governorate – Egypt

Schedule No.:0222210B 1st Accreditation date: July 29, 2022 Issue No. (1): July 29, 2022 Revision No. (-): Valid to: July 28, 2026

Materials / Products Tested		Types of Tests / Properties Measured / Range of Measurements		Standard Specifications / Techniques Used	
Water	Element	LOQ (ppb)		EPA method 200.7:2001 EPA method 6010 C:2007	Inductivity Coupled Plasma Optical Emission Spectrometer (ICP-OES) Model 5100 ICP-OES VDV S.N AU16020119
	Al	26.6			
	As	73.4			
	Ag	4.00			
	Ba	4.32			
	Co	7.13			
	Cr	4.40			
	Cu	6.94			
	Fe	24.0			
	Mo	19.0			
	Ni	22.5			
	Pb	28.2			
	Zn	104			
	Sb	42.9			
	Se	101			
	Sr	7.93			
	K	25.9			
Na	66.6				
Cd	4.00				
Mn	2.97				
Mg	18.9				

Kornish El-Muadi, Riad El-Muadi Tower 1 - Cairo - Egypt
Tel.: (202) 25275220/5/6/7
Fax: (202) 25275224

F4W4TCL
1/ Dec 2018

كورنيش المعادي - برج رياض المعادي - القاهرة - مصر
تيلفون : ٢٥٢٧٥٢٢٠ / ٥ / ٦ / ٧ (٢٠٢)
فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

Page 1 of 2

Industrial Investment Map: <http://investgypt.com> الصفحة الرسمية خريطة الاستثمار الصناعي في مصر

Scope of Accreditation of Institute of Graduate Studies and Research (Alexandria University)

Ministry of
Trade and Industry
Egyptian Accreditation Council
EGAC



وزارة التجارة والصناعة
المجلس الوطني للاعتماد
إيجاك

Schedule of Accreditation
for Testing Laboratory According to ISO/IEC 17025
Issued to

ICP-OES Laboratory
Institute of Graduate Studies and Research Alexandria University
(163) Horryia Avenue Shatby
Alexandria Governorate - Egypt

Schedule No.: 0222210B 1st Accreditation date: July 29, 2022 Issue No. (1): July 29, 2022 Revision No. (-): Valid to: July 28, 2026

Materials / Products Tested		Types of Tests / Properties Measured / Range of Measurements		Standard Specifications / Techniques Used	
Soil	Element	LOQ (ppb)	EPA method 200.7:2001	Inductivity Coupled Plasma Optical Emission Spectrometer (ICP-OES) Model 5100 ICP-OES VDV S.N AU16020119	
	Ag	43.2	EPA Method 3051 A:2007		
	As	52.8	EPA Method 6010 C:2007		
	Ba	11.1			
	Cd	12.3			
	Co	8.78			
	Cr	42.8			
	Cu	12.7			
	Mg	48.5			
	Mn	12.6			
	Mo	18.5			
	Ni	46.5			
	Pb	29.1			
	Zn	30.5			
	Se	21.8			
	Sr	2.31			
	Sb	46.5			
	Ti	15.6			
Na	228				
Fe	202				

Kornish El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt
Tel.: (202) 25275220/5/6/7
Fax: (202) 25275224

F4W14TCL
1 / Dec 2018

كورنيش المعادي - برج رياض المعادي - القاهرة - مصر
تليفون : ٢٥٢٧٥٢٢٠ / ٥ / ٦ / ٧ (٢٠٢)
فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

Page 2 of 2

الصفحة الرسمية لخريطة الاستثمار الصناعي في مصر: <http://investegypt.com>

Scope of Accreditation of Institute of Graduate Studies and Research (Alexandria University)

- Researchers at Alexandria University are working on studies aimed at protecting and preserving the marine environment located close to the university's campus. Their research likely involves efforts to prevent pollution, protect marine biodiversity, and maintain the health of the coastal ecosystem. The focus is on ensuring that the nearby marine environment remains sustainable and unharmed by human activities or other environmental threats.

Home > SN Applied Sciences > Article

Water quality indices as tools for assessment of the Eastern Harbor's water status (Alexandria, Egypt)

Research Article
Volume 5, article

Alaa A. El-Dahhar

Faculty of Agriculture (Saba Basha), Alexandria University, Alexandria, Egypt

Download

[View author publications](#)

You can also search for this author in

[PubMed](#) | [Google Scholar](#)

Wagdy Labib, **Alaa A. El-Dahhar**, Shima A. Shatin, Mona M. Ismail, Shima Hosny & Mohamed H. Diab

Egyptian Journal of Aquatic Biology & Fisheries
 Zoology Department, Faculty of Science,
 Ain Shams University, Cairo, Egypt.
 ISSN 1110 – 6131
 Vol. 28(4): 221 – 242 (2024)
 www.ejabf.journals.ekb.eg



Monitoring of Microplastics in the Marine Environment and Their Ecological Risks; the Coastline of Alexandria, Egypt as a Case study

Nourhan Hamdy, Amany M. Osman, Hassan Awad, Nashwa A. Shaaban*

Oceanography Department, Faculty of Science, Alexandria University, Egypt

*Corresponding Author: Nashwa.shaaban@alexu.edu.eg

Researchers at Alexandria University are conducting studies to conserve the marine environment near the University Campus

- On July 8, 2024, the students from the Faculty of Sport Education, Abu Qir, participate in Initiative to Clean the Eastern Harbour of Alexandria. In line with Alexandria University's commitment to community service and under the auspices of Professor Dr. Abdelaziz Konsowa, President of Alexandria University, and Dr. Yasmine Fouad, Minister of Environment, students from the Faculty of Sport Education in Abu Qir participated in a week-long initiative to clean the eastern harbour of Alexandria. The initiative includes the participation of the El-Raml Rotary Club and the Egyptian Diving and Rescue Federation. The initiative aims to promote sustainable tourism and improve beach enjoyment while supporting local communities in enhancing their waste disposal practices. It also encourages citizens to reduce their use of single-use plastic products and increase recycling efforts. Additionally, the project seeks to educate the public on the importance of maintaining clean and healthy beaches, raising awareness about the threats that plastic and chemical waste pose to marine life, as well as focusing on collecting, classifying, and recycling waste to improve the quality of the coastal environment.



Students from the Faculty of Sport Education at Abu Qir took part in a week-long initiative to clean the eastern harbour of Alexandria, starting on July 8, 2024. The initiative aims to promote sustainable tourism, improve waste disposal practices, and raise awareness about the dangers of plastic waste to marine life, while encouraging recycling

efforts and maintaining clean beaches. The project included the Alexandria university, El-Raml Rotary Club, and the Egyptian Diving and Rescue Federation.


- On June 18, 2024, Students from various schools in Alexandria, along with students from the French Institute in Alexandria, collaborated with Alexandria University to participate in a large-scale cleanup campaign titled **"Our Sea is Clean Without Trash 🌿🗑️."** for Anfouchi beach. After cleaning the beach, the students discovered the process of transforming plastic waste through 3D printing at the Fab Lab at Alexandria University. This initiative is part of the "Circular Economy: From the Beach to the Lab" project, led by the French Consulate and the French Institute in Alexandria, with financial support from the European Union and in cooperation with the Alexandria Governorate and Alexandria University. The project aims to achieve partnerships for sustainability goals and to engage the local community in these efforts. <https://www.facebook.com/ifealexandrie/videos/445679398217899>




Students from various schools in Alexandria, alongside those from the French Institute, participated in a large-scale cleanup campaign at Anfouchi beach titled **"Our Sea is Clean Without Trash 🌿🗑️."** Following the cleanup, participants explored the process of transforming plastic waste into usable materials through 3D printing at the Fab Lab at Alexandria University. This initiative is part of the "Circular Economy: From the Beach to the Lab" project, led by the French Consulate and the French Institute, with financial backing from the European Union and collaboration with the Alexandria Governorate. The project aims to foster partnerships for sustainability and actively engage the local community in environmental efforts.

Planning, implementation, monitoring and/or evaluation of all programs related to Water Management through the utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Smart Water Monitoring Systems in the campus	Water Conservation Digital Signage, ICT-based sensors in collection tanks, IoT Sensors for Water Usage, Leak Detection sensors, and Soil Moisture	Strategic plan documents	Jan 2024 - April 2024	GreenMetric Team of Alexandria University
Implementation	Install water-saving fixtures, promote awareness	Smart meters, water-saving app	Installation logs, awareness reports	Ongoing	Facility Management, ICT Dept, + Students of the computer science, AI, Programming
Monitoring	water consumption in real-time	Real-time monitoring software	Water usage reports, reducing repair costs	Jan 2025-July 2025	Water Excellence Center – Alexandria University, ICT Dept
Evaluation	Assess effectiveness of conservation programs	Data analysis tools, feedback systems	Savings analytics	Annually	Water Excellence Center – Alexandria University, ICT Dept

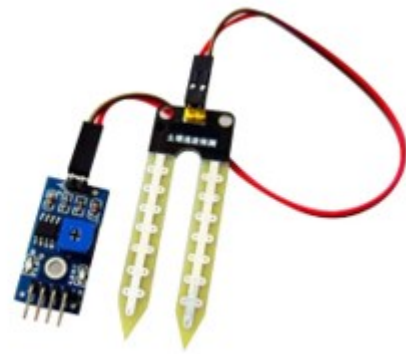
Water Conservation Digital Signage




In a remarkable demonstration of innovation and environmental responsibility, a student team from the Faculty of Engineering has developed a sea-cleaning robot that was showcased during the COP27 Climate Summit. The robot is designed to address critical environmental challenges and promote sustainable practices for preserving our oceans



Rainwater collection tank sensors



Soil Moisture Sensors



Smart Water Monitoring Systems

Description:

- **Planning:**
 - 1) Promote **awareness** to encourage the campus community to actively participate in water-saving programs through **Water Conservation Digital Signage**. Use digital displays across campus to showcase water usage statistics, water-saving tips, and the impact of conservation efforts.
 - 2) Apply **Rainwater Harvesting Systems** by installing ICT-based sensors in rainwater collection tanks to monitor water levels and usage in real-time. This data will help optimize the use of harvested rainwater for campus needs such as irrigation, toilet flushing, and cleaning.
 - 3) Implement **Smart Water Monitoring Systems** in campus gardens using IoT sensors to track water usage and detect leaks.
 - 4) Utilize **Soil Moisture Sensors** by employing ICT-based sensors to measure soil moisture content, ensuring efficient irrigation practices, especially in the botanic garden of Faculty of Science.
- **Implementation:**
 - 1) Promote water conservation awareness by displaying smart screens across the campus.

- 2) Install ICT-based sensors in rainwater harvesting tanks to monitor water levels and usage in real time.
- 3) Install smart water meters and sensors across the campus to track water consumption in real time, monitor usage patterns, and identify areas of inefficiency.
- 4) Install ICT sensors to detect water leaks in real time by monitoring pressure changes in pipes. This helps quickly identify leaks, preventing water wastage and reducing repair costs.
- 5) Install ICT-based moisture sensors in the soil to measure moisture content, If the moisture level drops below a certain threshold, the system can automatically activate the irrigation system.

- **Monitoring:**

- Track water usage in buildings, laboratories, and irrigation systems.
- Calculate savings from conservation efforts by comparing this year's water usage to last year's consumption.
- Identify leaks and reducing repair costs.

- **Evaluation:**

Evaluate the effectiveness of water conservation programs by leveraging data analysis tools and feedback systems to assess performance and outcomes.

By integrating ICT into water management, university campus can promote sustainability, reduce water waste, and ensure the reliable supply of high-quality water. These systems not only improve efficiency but also support long-term environmental and financial goals.

[5] Transportation (TR)



The total number of vehicles (cars, buses and motorcycles) divided by total campus' population

No.	Vehicle	Total Number
1	Vehicles managed by the university including Buses, Minibuses and cars.	53 (35 Buses + Minibuses) and 18 cars
2	AU administration Cars entering the university	40
3	Motorcycles entering the university	15
4	Staff Cars entering the university	820
	Total	875

875 (vehicles) / 217097 (population) = 0.004

- The University sites are mainly in the city. These sites are very well served by local buses run by the Country Councils or and private minibuses.
- The university provides employees in administrative departments with public transportation buses with regular routes and schedules, with the aim of encouraging the shift from using private cars to public transportation in order to reduce problems resulting from the impact of increased traffic density on the local environment, such as deteriorating air quality and traffic congestion. Most of these buses do not enter the university campus, but rather wait in designated stops outside the university walls.
- Alexandria University provides a **shuttle service** for employees, administrators, and university workers.
- The number of buses at Alexandria University is 35 buses. 35 new shuttle Buses were purchased, with the average number of passengers per shuttle of 51 passengers. The buses make approximately two trips per day (30 x 2) on fixed time and fixed line routes to provide convenience for passengers and at the same time to reduce problems caused by the impact of increased traffic density on the local environment such as air pollution and traffic congestion.
- In addition, the number of vehicles operated by the university has increased. Maintenance was carried out on a large number of cars that were out of service. Greenhouse gas sources are reduced by ride sharing on university buses.
- The university also allows other community shuttle services to offer their services with reasonable price for the employees, staff members and students.
- The Faculty of Commerce at Alexandria University has arranged a public transport bus service for students living outside Alexandria, offering transportation from the faculty to the Borg El Arab area. This service is intended to save time and ease the commute to student housing, particularly during late hours, as lectures conclude at 8:30 PM. The bus route includes a stop at Misr Station to accommodate students from other governorates who use the train, followed by the Desert Road to Al-Amriya, and then Kafoury Road to Borg El Arab. The bus departs daily from the college campus at 8:30 PM. The new service reflects the university's commitment to improving student welfare and ensuring safe, convenient transportation options for those living in areas distant from the main campus.
- The university has adopted the initiative of group participation in riding the same vehicle (Carpool) among the faculty members, especially all the academic administrators, which accordingly could reduce the number of cars entering the university. In addition, students and employees are encouraged to use bicycles. Using bicycles reduces the source of greenhouse gases.



Zero Emission Vehicles (ZEV) Policy on Campus

Alexandria University encourages zero emission vehicle policy through

1. A cooperation protocol was concluded between Alexandria University and ETHYDCO with the aim of converting 10 university vehicles into environmentally friendly grey cars. The protocol includes converting these vehicles to run on natural gas associated with fuel, with the aim of reducing harmful emissions to the environment and enhancing environmental sustainability in the region. The agreement also includes joint efforts to implement this

technological transformation and provide the necessary technical and financial support to ensure the success of the project and achieve the desired results.

2. Cars and buses owned by Alexandria University are periodically subjected to maintenance to ensure vehicle engine efficiency and reduce emissions.
3. Providing bike parking for students and allowing the bicycles to enter the campus.
4. The University council approved a bicycle initiative for each student, with initial strategy with 2000 bicycles in the first year and 500 bicycles per year, in addition to 100 bicycles to move inside campus. An agreement has been signed with some national banks to offer it for monthly fees for long term so that the student does not bear a large amount monthly.
5. The University provided an information desk in every Faculty to register the students in this initiative and help them during the contracting process.
6. Some awareness seminars about the benefits of using bicycles as transportation method were held, the first seminar was held in November 2019 in the higher institute of public health delivered by the president of the federation of cycling, and the participation of the CSR team.
7. Cycling marathons per month in cooperation with the fund of "You are stronger than drugs" and commissioned to the Faculty of Physical Education. All the faculties held a cycling festival in November each year, the first cycling marathon was held in November 2019.
8. The "running and cycling" marathon was launched from the Camp Shizar area to the Department of Marine Sciences - Faculty of Science, Alexandria University in Anfushi. This comes within the activities of the Scientific Conference on Climate Change and Sports, which was held from 27 to 29 October 2022 in cooperation between the Faculty of Science and the Faculty of Physical Education for Boys. Alexandria University
9. The university is working to encourage car sharing among faculty and students to reduce the number of cars entering campus, limit parking spaces, and adopt healthy and sustainable transportation options.
10. Students are made aware of the benefits of using bicycles for transportation and benefit from the university's initiative to own bicycles and the university's permission for them to bring bicycles onto the campus and leave them in designated places, with a monthly marathon being conducted to increase awareness, entertainment, and encourage use.
11. Encourage students, staff, and faculty who move around campus to walk instead of using a car.
12. Increasing the university's green space.
13. Students park their cars and scooters outside the campus and walk around the campus.
14. A competition was organized between the university's faculties entitled "Towards an Environmental College." This competition encourages all different faculties to use their resources in a way that achieves the idea of a green Faculty and a green environment.
15. **Green Cycle project in the Faculty of Pharmacy - Alexandria University**

The project began in October 2022 by organizing a number of events in cooperation between the Community Service and Environmental Development Committee, ASPSA, and the Alexandria Rotary Clubs, under the supervision and organization of Faculty of Pharmacy - Alexandria University.

Faculty members and college employees by developing an application, prepared for smart phones, specific to the project that enables college members to share cars for transportation in a safe manner in order to reduce carbon emissions resulting from car exhausts.

Related activities and initiatives

- The Student Sports Committee of Alexandria National University organized the "First Sports Marathon for University Students," titled "Run for Your Health," on May 24, 2024. The marathon started at the end of Sidi Gaber Bridge and concluded at Selisla Tower. At the end of the event, both winners and participants were honored.
- In an effort to raise environmental awareness among students and the local community in Alexandria, the Faculty of Sport Education Abo Qir organized an event titled 'Our Health is in Our Planet' in collaboration with the Ministry of Environment and Sanofi on May 4, 2024. The marathon started in front of Stanley Bridge and ended at the University Administration Building in Shatby. The top 20 (male and female) student winners were awarded 20 bicycles.
- The Faculty of Pharmacy organizes a sports marathon for walking and cycling entitled "Running for Green" in cooperation with ASPSA "Alexandria Scientific Pharmaceutical Students Association", as part of the preparations of the Faculty of Pharmacy and the University of Alexandria for the COP27 Climate Change Conference, which was held in Sharm El-Sheikh in November 2022. The marathon started in front of the Library of Alexandria to Qaitbay Citadel, with the participation of about 150 individuals, an elite group of faculty members, faculty members, and students. The marathon was organized with the aim of uniting students and faculty members as one family and

encouraging students to practice sports to improve their physical and mental health, which will reflect positively on their academic performance.

- The cycling race and marathon activities were launched, within the activities of the Global Conference on Climate Change and Sports, organized by the Faculty of Science and Faculty of Sport Education Abu Qir in the period from October 27-29, 2022, with the participation, support, encouragement and sponsorship of the Ministry of Youth and Sports, the Universities Sports Federation, the Ministry of the Environment, and the Egyptian General Authority. For tourism development, and a number of sponsors. More than 1,500 male and female students participated in the marathon, as part of the forum's activities. The marathon started from the Camp Caesar area to Qaitbay Citadel, west of the city.



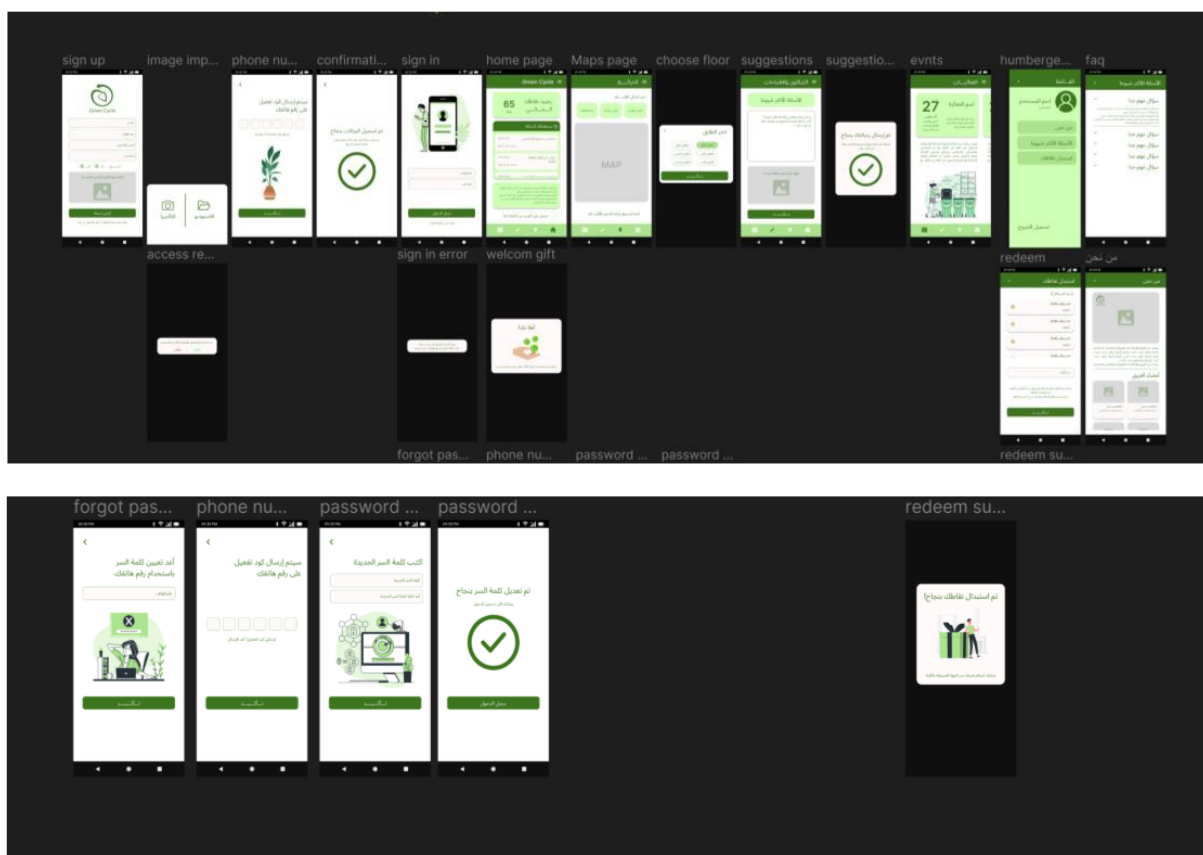
Campus Bikes parking at the Faculty of Engineering (Alexandria University, Egypt)



Ride Share (Carpool) (Faculty of Pharmacy, Alexandria University, Egypt)



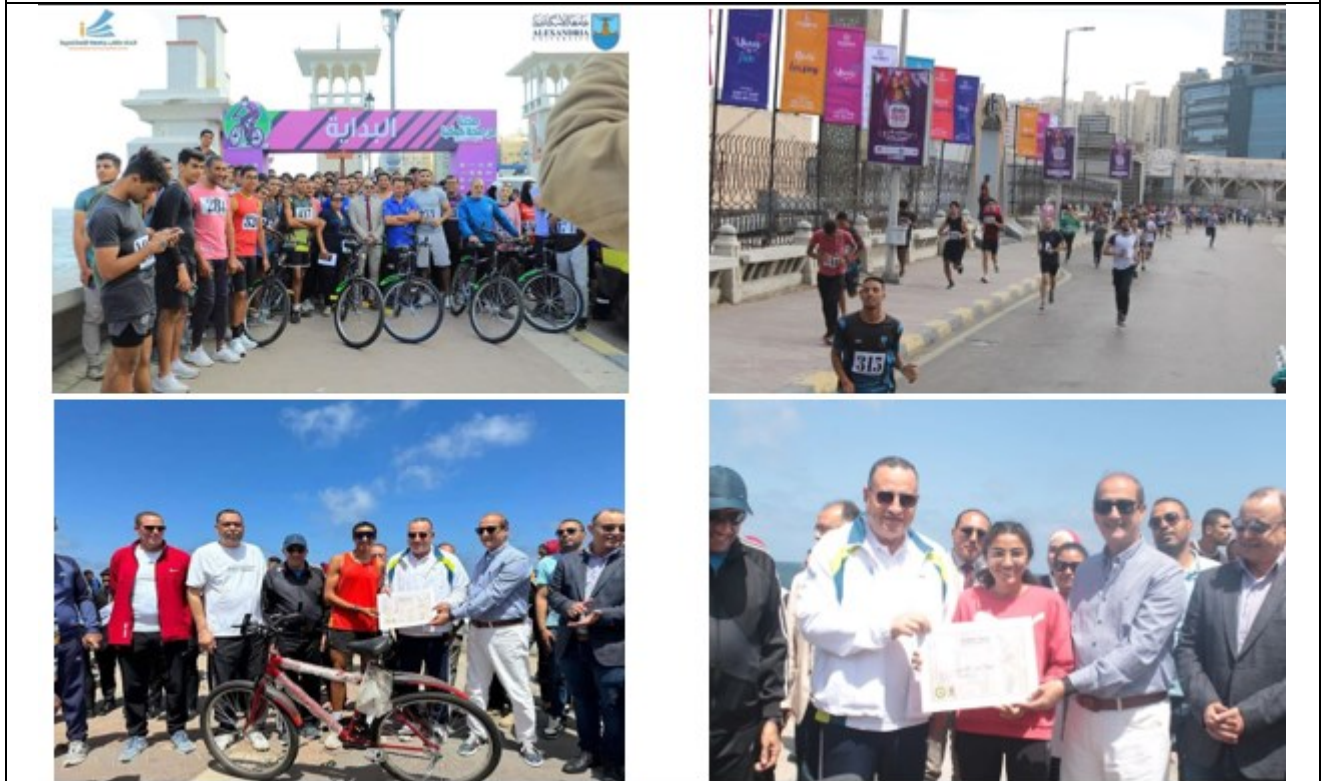
The Alexandria University council bicycle initiative to provide a bicycle for each student



Carpooling application for smartphones - Green Cycle project in the Faculty of Pharmacy (Alexandria University, Egypt)



The cycling race and marathon activities launched within the activities of the Global Conference on Climate Change and Sports, organized by the Faculty of Science and Faculty of Physical Education in Abu Qir in the period from October 27-29, 2022



Faculty of Sport Education Abo Qir Hosts Environmental Awareness Marathon entitled "Our Health is in Our Planet" in collaboration with the Ministry of Environment and Sanofi on May 4, 2024. The marathon began in front of Stanley Bridge and concluded at the University Administration Building in Shatby.



The "First Sports Marathon for University Students," titled *"Run for Your Health,"* was organized by the Student Sports Committee of Alexandria National University on May 24, 2024. The marathon was started at Sidi Gaber Bridge and concluded at Selisla Tower.

Ratio of Parking Area to Total Campus Area

- According to documented information received from the University's "Information, Documentation and Decision Support Center," the university's parking lots occupy approximately **3.85%** of the university's total area and are designated for faculty members and administrators. Students park their cars and motorcycles outside the university walls and move inside on foot.
- On the other hand, in order to facilitate transportation to and from the university, save energy, reduce pollution resulting from emissions, and provide parking spaces, routes have been allocated for university buses (the capacity of each bus is 30-50 passengers) to cover areas far from the scope of the university administration and faculties and most of these buses waiting outside the university walls.

Total main campus area: 8083208.274 m²

Total parking area = 310,892.62 m² (24,871.41 spaces*12.5m² per space).

Ratio = 8083208.274 m² : 310,892.62 m² = **26 : 1**

Parking area: **3.85%** of total campus area

- Researchers at Alexandria University are working on improving the efficiency of smart parking systems in urban areas by developing a paging technique, which aims to optimize the use of parking spaces by reducing idle time between vehicles using the same parking slot. It reallocates unused parking time, allowing for more efficient utilization of slots.



Journals & Magazines > IEEE Transactions on Intellig... > Volume: 25 Issue: 5

Improved Utilization for "Smart Parking Systems" Based on Paging Technique

Publisher: IEEE [Cite This](#) [PDF](#)

Mohamed Ahmed ; Mostafa S. Hamad ; Ayman S. Abdel-Khalik ; Eman Hamdan ; Shehab Ahm... All /

1
Cites in
Paper

270
Full
Text Views

Mohamed Ahmed is with Engineering Mathematics and Physics Department, Faculty of Engineering, Alexandria University, 21544, Alexandria, Egypt, and is with department of Electronic and Electrical Engineering, Strathclyde University, Glasgow, G1 1XQ, UK (e-mail: mohamed.abuyehia@alexu.edu.eg, mohamed.abuyehia@strath.ac.uk)

Mostafa S. Hamad is with Research and Development Center, Arab Academy for Science, Technology and Maritime Transport, Al Alamein - Egypt, (e-mail: mostafa.hamad@staff.aast.edu).

Ayman S. Abdel-Khalik and Noha A. Elmalhy are with Electrical Engineering Department, Faculty of Engineering, Alexandria University, Alexandria, 21544, Egypt (e-mail: ayman.abdel-khalik@alexu.edu.eg, noha.elmalhy@alexu.edu.eg).

Eman Hamdan is with Marine Engineering Technology Department, Arab Academy for Science, Technology and Maritime Transport, Alexandria 1029, Egypt, (e-mail: eman.youssef@aast.edu)

Shehab Ahmed is with the CEMSE Division at King Abdullah University of Science and Technology, Saudi Arabia (email: shehab.ahmed@kaust.edu.sa)

Researchers at Alexandria University are addressing the economic benefits of smart parking systems in urban areas by proposing a 'paging technique' that optimizes parking slot utilization.

Program to decrease the parking area on campus for the last 3 years (2022 - 2024)

- According to the documented information received from the University's "Information, Documentation and Decision Support Center", the University Car Parking area occupy **3.85%** from the total area of the Campus, and are allocated for Faculty members and administrators.
- The University provides mass transportation (shuttle buses) for employees and faculty members to drive to and from the University instead of using their private cars. These buses park mostly outside the University Campus.
- The University provides the opportunity to contract with some private transportation companies to facilitate the movement of Faculty members and students, and these buses park temporarily outside the University Campus.
- The students park their cars outside the University Campus and walk inside the Campus.
- The University encourage car sharing (carpooling) among the faculty members and students, to reduce the number of cars entering the University Campus and limit the parking area, and adopt healthy and sustainable transportation options
- The university provides bike parking for students and allow the bicycles to enter the campus.

- Encouraging students, employees and faculty members who live around the University Campus to go by walking instead of using a Car.
- Increasing the University green area.
- A competition between the faculties in the University was set titled “Towards an Eco Faculty” was set. This competition encourages all the different faculties to use their resources in a way that fulfils the idea of green faculty and green environment.
- Promoting student involvement in initiatives that educate and motivate them to adopt environmentally sustainable transportation methods on campus. These initiatives may include awareness campaigns, workshops, or events that highlight the benefits of using eco-friendly transportation options such as walking, cycling, carpooling, or electric vehicles, rather than relying on fossil fuel-based cars or buses. The goal is to cultivate a culture of sustainability among students by informing them about the positive environmental impact of reducing emissions, conserving energy, and minimizing the campus carbon footprint. Encouraging this behavior helps foster a greener campus environment and raises awareness of broader environmental issues.
- **Green Cycle project in the Faculty of Pharmacy - Alexandria University**
 - The project began in October 2022 by organizing a number of events in cooperation between the Community Service and Environmental Development Committee, ASPSA, and the Alexandria Rotary Clubs, under the supervision and organization of Faculty of Pharmacy - Alexandria University.
The students at the Faculty of Pharmacy developed an application, prepared for smart phones, which enables Faculty members and college employees to share cars for transportation in a safe manner. This initiative is a prototype and a starting point for Alexandria University.
Alexandria University have generalized this initiative in some of the faculties of Alexandria University in gradual stages.
 - The Faculty of Pharmacy won the third place in the Alexandria Governorate for the National Initiative for Green Smart Projects in its third edition (2024) with its 'Green Cycle' project, competing in the category of non-profit community initiatives and participations. Notably, this project has now won for the second consecutive year, having previously achieved first place in the Alexandria Governorate last year.

Number of Transportation Initiatives to Decrease Private Vehicles on Campus

1. Shuttle/bus park inside and outside the campus
2. Alexandria University provides shuttle service. The number of buses at Alexandria University is 35 buses. 35 new shuttle Buses were purchased, with the average number of passengers per shuttle of 51 passengers. The buses make approximately two trips per day (30 x 2) on fixed time and fixed line routes to provide convenience for passengers and at the same time to reduce problems caused by the impact of increased traffic density on the local environment such as air pollution and traffic congestion.
3. The University provides mass transportation (shuttle buses) for employees and faculty members to drive to and from the University instead of using their private cars. These buses park mostly outside the University Campus.
4. The University provides the opportunity to contract with some private transportation companies to facilitate the movement of Faculty members and students, and these buses park temporarily outside the University Campus.
5. The students park their cars outside the University Campus and walk inside the Campus.
6. The University encourage car sharing (carpooling) among the faculty members and students, to reduce the number of cars entering the University Campus and limit the parking area, and adopt healthy and sustainable transportation options.
The Faculty of Pharmacy organizes a sports marathon for walking and cycling entitled “Running for Green” in cooperation with ASPSA "Alexandria Scientific Pharmaceutical Students Association", as part of the preparations of the Faculty of Pharmacy and the University of Alexandria for the COP27 Climate Change Conference, which was held in Sharm El-Sheikh in November 2022. The marathon started in front of the Library of Alexandria to Qaitbay Citadel, with the participation of about 150 individuals, an elite group of faculty members, faculty members, and students. The marathon was organized with the aim of uniting students and faculty members as one family and encouraging students to practice sports to improve their physical and mental health, which will reflect positively on their academic performance.
7. The cycling race and marathon activities were launched, within the activities of the Global Conference on Climate Change and Sports, organized by the Faculty of Science and Faculty of Sport Education Abu Qir in the period from October 27-29, 2022, with the participation, support, encouragement and sponsorship of the Ministry of Youth and Sports, the Universities Sports Federation, the Ministry of the Environment, and the Egyptian General Authority. For tourism development, and a number of sponsors. More than 1,500 male and female students

participated in the marathon, as part of the forum's activities. The marathon started from the Camp Caesar area to Qaitbay Citadel, west of the city.

8. The Student Sports Committee of Alexandria National University organized the First Sports Marathon for University Students, titled "Run for Your Health" on May 24, 2024. The marathon started at the end of Sidi Gaber Bridge and concluded at Selisla Tower. At the end of the event, both winners and participants were honored.
9. In an effort to raise environmental awareness among students and the local community in Alexandria, the Faculty of Sport Education Abo Qir organized an event titled 'Our Health is in Our Planet' in collaboration with the Ministry of Environment and Sanofi on May 4, 2024. The marathon started in front of Stanley Bridge and ended at the University Administration Building in Shatby. The top 20 (male and female) student winners were awarded 20 bicycles.
10. Bicycle parking on campus: The university provides bike parking for students and allow the bicycles to enter the campus.
11. Encouraging students, employees and faculty members who leaves around the University Campus to go by walking instead of using a Car.
12. Increasing the University green area.
13. A competition between the faculties in the University was set titled "Towards an Eco Faculty" was set. This competition encourages all the different faculties to use their resources in a way that fulfils the idea of green faculty and green environment.
- 14. Green Cycle project in the Faculty of Pharmacy - Alexandria University**
15. The project began in October 2022 by organizing a number of events in cooperation between the Community Service and Environmental Development Committee, ASPSA, and the Alexandria Rotary Clubs, under the supervision and organization of Faculty of Pharmacy - Alexandria University.
16. **The students at the Faculty of Pharmacy developed an application, prepared for smart phones**, which enables Faculty members and college employees to share cars for transportation in a safe manner. This initiative is a prototype and a starting point for Alexandria University. **Alexandria University** have generalized this initiative in some of the faculties of Alexandria University in gradual stages.

Pedestrian Path Policy on Campus

➤ Purpose and Scope

The policy applies to all students, faculty, staff, and visitors on campus to ensure the safety and accessibility of pedestrian pathways. It aims to create a safe and efficient walking environment, promoting a culture of respect and responsibility among all users.

➤ Policy Guidelines

• Designated Paths

All pedestrians must use designated pathways for walking, which are clearly marked and maintained. All covered walkways are lined with cultivated plants, not only increasing the greenery on campus but also providing a refreshing environment for students and staff as they walk through.

• Accessibility

Pedestrian paths is accessible to individuals with disabilities. Steps have been replaced with ramps designed to accommodate pedestrians with physical disabilities.

• Safety Measures

Speed limits for any motorized vehicles allowed on campus must be enforced in pedestrian areas. Proper lighting has been installed to enhance safety.

• Maintenance

Regular inspections and maintenance of pedestrian paths is conducted to ensure safety and usability. Water removal protocols is established for the winter months.

• Behavior Expectations

Members of the campus community are expected to respect pedestrian pathways and refrain from littering or obstructing them.

• Enforcement

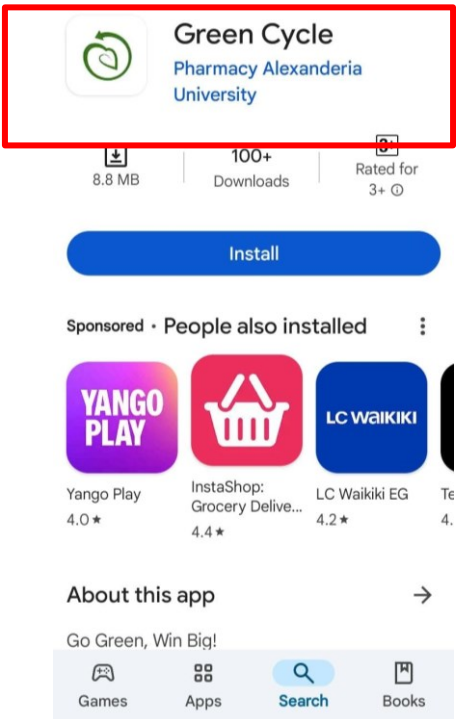
Violations of the pedestrian path policy may result in disciplinary action in accordance with university guidelines.


• Review and Amendments

This policy is reviewed annually and amended as necessary to reflect changes in campus needs or safety standards.

Planning, implementation, monitoring and/or evaluation of all programs related to Transportation through the utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Count the recipients of transportation services, plan shuttle routes, implement eco-friendly initiatives, update the carpooling app, and monitor the carbon footprint	Software (Database, & App Development Software)	Assessment reports, route plans	October 2023 - Feb 2024	Administrative Office, GreenMetric Team of Alexandria University, ICT Dept
Implementation	List the transportation users, announce shuttle routes, implement eco-friendly initiatives, and update the Green Cycle app.	Shuttle scheduling WhatsApp groups	App link	Mar 2024 - June 2024	Transportation Office, ICT Dept
Monitoring	Monitor the carbon footprint	Carbon footprint calculator	Usage analytics	Ongoing	Transportation Office, ICT Dept
Evaluation	Evaluate shuttle service efficiency, and the Green Cycle app performance	Data analysis tools, user feedback surveys	App reviews	Annually	Information and Documentation Center for Decision Support at Alexandria University





Updating the Green Cycle app (carpooling application for smartphones) promoted by the Faculty of Pharmacy, Alexandria University.

Alexandria Engineering Journal (2023) 67, 241–255



ORIGINAL ARTICLE

Measuring Transit-Oriented Development (TOD) levels: Prioritize potential areas for TOD in Alexandria, Egypt using GIS-Spatial Multi-Criteria based model



Sara M. Ibrahim^{a,b,*}, Hany M. Ayad^{b,1}, Eslam A. Turki^c, Dina M. Saadallah^{b,1}

^aDepartment of Architecture, Faculty of Engineering, Delta University for Science and Technology, Gamasa, Egypt

^bDepartment of Architecture, Faculty of Engineering, Alexandria University, Egypt

^cArab Academy for Science, Technology and Maritime Transport (AASTMT), 98 Abd Al Karim Al Khatabi, Sidi Gaber, Alexandria, 21523, Egypt

Researchers at Alexandria University have integrated efforts toward Transit-Oriented Development (TOD) approach. It is a sustainable urban planning strategy that focuses on aligning land use with transportation systems, particularly around transit centers like bus or train stations. By doing so, TOD encourages people to live, work, and shop near public transportation, reducing car dependency, promoting walkability, and improving overall accessibility. Using GIS and Spatial Multi-Criteria Analysis (SMCA), they aim to enhance accessibility, promote walkability, and revitalize areas.

Description:

Planning:

- Counting the recipients of transportation services on campus.
- Plan shuttle routes for transportation users on campus.
- Plan Eco-friendly initiatives utilizing ICT.
- Update the carpooling mobile app (Green Cycle application).
- Monitor Carbon footprint.

Implementation:

- Create a list of transportation users on campus using database software.
- Announce shuttle routes for transportation users on campus through WhatsApp groups.
- Implement eco-friendly initiatives utilizing ICT to track sustainable transportation choices.
- Updated version of the Green Cycle app, with additional options, were promoted by the Faculty of Pharmacy-Alexandria University.

Monitoring:

- Monitor the carbon footprint using ICT systems to analyze and provide feedback on the environmental impact of transportation choices, helping the campus reduce emissions.

Evaluation:

- Evaluate the carbon footprint of the shuttle services, as well as the efficiency and effectiveness of the Green Cycle app, using data analysis tools to assess performance metrics.

[6] Education and Research (ED)



Number of Courses/Subjects Related to Sustainability Offered

Alexandria University offers a group of courses related to the environment and sustainability in various sectors, in line with the state's strategies to achieve sustainable development goals and to achieve the goals of linking science with industry and qualifying the graduate to find job opportunities commensurate with the field of specialization. The university works to qualify the graduate by providing various awareness and training programs during the study period. The university also provides a distinguished group of postgraduate programs that are compatible with their counterparts in international universities, as indicated by the indicator data for this standard.



- A. An academic team (Ph.D.) from the Faculty of Science at Alexandria University teaches a course titled 'Man and Environment' (University Elective Course – 2 Credits). The course addresses

environmental problems, types of natural resources, pollution, environmental footprint, carbon footprint, waste management, recycling, climate change and global warming, biodiversity, and the Sustainable Development Goals (SDGs). It is offered to students from various faculties at Alexandria University, such as:

- 1) Faculty of Science
- 2) Faculty of Tourism
- 3) Faculty of Agriculture
- 4) Faculty of Sport Education
- 5) Faculty of Business
- 6) Faculty of Computers and Data Science
- 7) Faculty of Dentistry
- 8) Faculty of Economics and Political Science
- 9) Faculty of Arts
- 10) Faculty of Nursing

Also, this course is offered in some programs at Alexandria National University, including:

- A. Computer and Data Sciences (CDS) Programs
- B. Oral and Dental Surgery Program
- C. Software and Multimedia Production Program (SIM)

- B.** Courses focused on marine environments and the sustainability of marine ecosystems make use of the Research Yacht, located at the Faculty of Science in the Anfoushi area and equipped with a GPS system. Students and researchers utilize the yacht for field trips to collect samples and conduct essential studies. This access to the Research Yacht greatly supports the study, understanding, and conservation of marine life.



- C. Example of Programs and Courses/Subjects Related to Sustainability (Alexandria University, Egypt):**

- Man and Environment
- Living resources and taxonomy
- Economic botany and biofuel
- Plant biotechnology and species conservation
- Water treatment and water analysis
- Plant propagation and tissue culture
- Algal Biotechnology
- Taxonomy of flowering plants
- Plant anatomy and ecology
- Quality criteria for biological applications
- Biology of Microorganisms
- Microbial diversity
- Research project
- Field study
- Environmental geology
- Marine plankton
- Marine chemistry
- Fish biology and fisheries
- Marine benthos
- Marine ecology

- Marine pollution
- Coastal zone management
- Aquatic aquaculture
- Effect of climate changes on marine ecosystem
- Marine microbiology
- Marine biodiversity
- Regional oceanography
- Conservation and sustainable development of natural resources
- Environmental bioremediation
- Physicochemical Processes in Environmental Engineering
- Sustainable Built Environment
- Sustainable Water Resources Development
- Environmental Sampling and Analysis
- Unit Operation for Environmental Engineers
- Thermodynamics for Environmental Engineers
- Environmental Microbiology
- Environmental Aquatic Chemistry
- Environmental Organic Chemistry
- Climate Change
- The Nile; Environments, Limnology & Human Use
- Site Assessment and Remediation
- Climate Systems
- Advanced Environmental Engineering
- Integrated Environmental Assessment
- Environmental Impacts of Power Generation
- Environmental Sensor Informatics
- Cities and the Challenge of Sustainable Development
- Green Entrepreneurship and Agribusiness
- Sustainable Energy Resources and Management
- Sustainable Management of Marginal Drylands
- Sustainable Farming Systems: Hydro and Aquaponics
- Sustainable Development
- Environmental Hydrology
- Projects Management
- Fundamentals of environmental sciences
- Sustainable development
- Climate dynamics
- Climate change mitigation, vulnerability and adaptation
- Environmental economics and management
- Statistical analysis in climate research
- Economic valuation and climate change
- Green economy
- Geographical information systems applications in climate change
- Remote sensing and environmental change
- Environmental risk assessment and management
- Community engagement and sustainable development
- Climate change, biodiversity and ecosystems functions
- Climate change and health
- Urban environment
- Geopolitics of climate change
- Scientific research skills
- Introduction to Climate Change
- Meteorology and Climate Observation
- Marine Resources and sustainability
- Environment Risk Assessment and Management

- Climate Change Management
- Numerical Modelling and tools
- GIS and Remote Sensing
- Research Methodology and Ethics
- Climate and Ocean Modelling
- Climate Smart Agriculture
- Nanotechnology and Climate Change
- Sustainable Blue Economy
- Coral Reefs and Climate Change
- Energy Efficiency Management in Maritime Industry
- Environmental Impact Assessment
- Integrated Coastal Zone Management
- Climate Change and Biodiversity
- Global Environmental Governance
- Strategic Planning and Project Management
- Quality and Safety Management Systems
- Climate Change effects on Coastal Dynamics
- Adaptation Strategies to Climate Change for Hydraulic Risk Prevention in Coastal Areas
- Climate Change Policy of the EU
- Adaptation and Mitigation to Climate Change in Spatial Planning
- Master of WasteWater Engineering Practice
- Master of Drinking Water Engineering Practice
- Master of Radiation Physics Practice
- Master of Petrochemicals and Hydrocarbon Processing Practice
- M.Eng. Water Recourse
- M.Eng. in Irrigation Structures
- M.Eng. in Environmental Engineering
- M.Eng. in Thermal Engineering
- M.Eng. in Combustion Engines
- M.Eng. in Electrical Energy Systems and Control
- M.Sc./Ph.D in Electrical Engineering (Electrical Power and Machines)
- Master of Climate Change and Sustainable Development
- International Master of Smart Environmental Management of Climate Change
- International Master of Natural Resources Sustainability for Land Development
- International Master of Sustainable Management of Fisheries and Aquaculture Science
- Environmental silviculture and tree – resources management
- Pest control & environment protection from cides pollution.
- Soil and water sciences
- Pesticides chemistry and technology
- Sustainable management of water resources
- Sustainable management of land resources
- Occupational Hygiene and Air Pollution
- Environmental Health
- Food Hygiene and Control
- Environmental Health
- Occupational Hygiene and Air Pollution
- Food Hygiene and Control
- Environmental Studies - Biological Science
- Climatic Change and Sustainable Development
- Environment and Energy
- Sustainable Cities
- Sustainable Communities
- Soil and Water

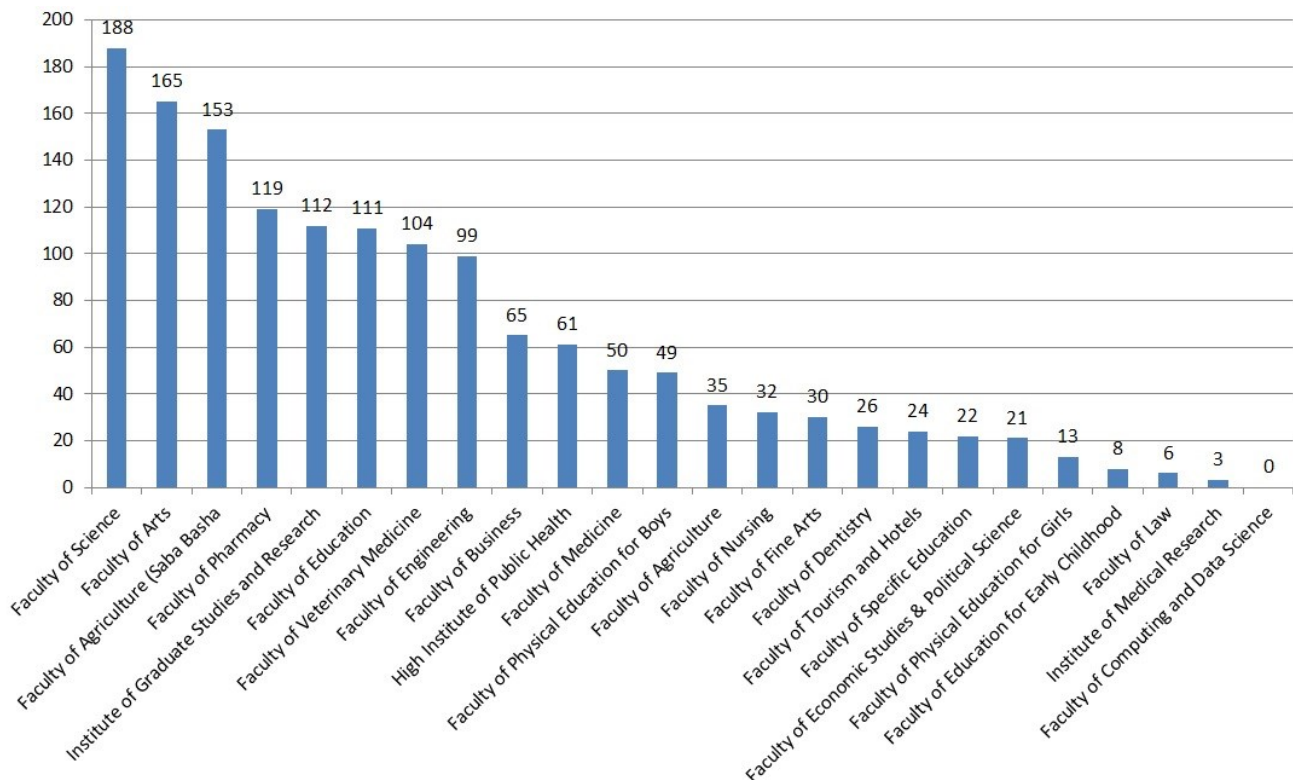
Example of Programs and Courses/Subjects Related to Sustainability (Alexandria University, Egypt)

Above is a list of examples of programs and courses which aims to embed sustainability that are offered by the University. The total number of courses related to the environment and sustainability in the various sectors of the university, running in the academic year 2023 – 2024, according to the data received from the colleges and specified in previous detailed table, **is 1496**, which represents approximately **11.1 percent** of the total number of courses for the undergraduate and graduate levels, in 25 Faculties and Institutes at the University.

In this context, the table below shows the total number of courses related to the environment and sustainability according to the specializations of the university's various faculties and institutes:

Sectors	Number of courses related to environment and sustainability		Total number of courses Offered during the academic year 2023/2024	Percentage of the number of courses related to environment and sustainability
	Undergraduate studies	postgraduate studies	Undergraduate and postgraduate studies	
Medical sector (dental-pharmacy-nursing-veterinary medicine- - Medical Research Institute)	136	463	13520	11.1%
Basic sciences sector (Engineering - Agriculture - Saba Pasha Agriculture - Science - Fine Arts - Specific Education - Graduate Institute)	237	313		
Humanities sector (Commerce - Arts - Tourism and Hotels - Education - Law - Physical Education for Boys - Physical Education for Girls - Early Childhood Education)	223	124		
Total numbers	596	900		

Number of courses in each college that are related to sustainability



The National Alexandria University was established last academic year (2022/2023) & (2023/2024), with 9 undergraduate Programs (attached is a list of the new programs). The National Alexandria University programs refer to educational programs offered by Alexandria University, which is a public university located in Alexandria, Egypt. However, public universities like Alexandria University do offer programs that are funded by the government, and students pay lower tuition fees compared to private institutions.

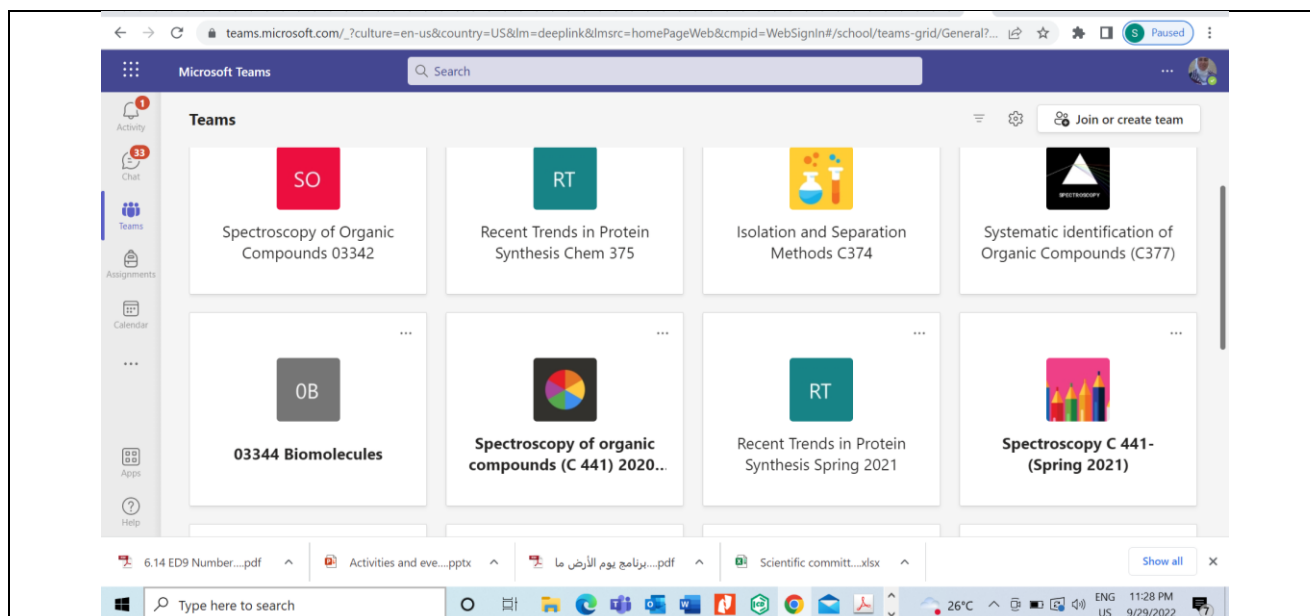
Study begins at Alexandria National University at its headquarters in New Smouha, starting from the academic year 2022/2023 and continuing in the academic year 2023/2024 in nine programs that grant bachelor's degrees, as follows:

- 1 - College of Medicine - Medicine and Surgery Program.
- 2 - College of Dentistry - Oral and Dental Medicine and Surgery Program.
- 3 - College of Pharmacy - Pharm de Clinical Program.
- 4 - College of Engineering (Architecture and Construction Program - Computers and Communications Program - Mechatronics and Robotics Engineering Program).
- 5 - College of Computer and Data Sciences (Cybersecurity Program - Smart Systems Program).
- 6 - College of Science - Software and Multimedia Industry Program.

The total number of courses **at the new Alexandria National University** in the academic year 2022/2023 & 2023/2024 are 531 courses.

College	Program	Total number of courses
College of Medicine	Medicine and Surgery Program	49
College of Dentistry	Oral and Dental Medicine and Surgery Program	75
College of Pharmacy	Pharm de Clinical Program	66
College of Engineering	- Architecture and Construction Program	55
	- Computers and Communications Program	101
	- Mechatronics and Robotics Engineering Program	84
College of Computer and Data Sciences	Cybersecurity Program - Smart Systems Program	48
College of Science	Software and Multimedia Industry Program	53

Online Courses



Using Microsoft Teams (Alexandria University, EGYPT)



Skill labs at the Faculty of Medicine – Alexandria University

DUAL AND JOINT DEGREES IN NUMBERS



Manchester University

Joint
degree

Medicine

2020

Manchester University

Joint
degree

Dentistry

2022





Alexandria University signs the first joint scientific degree for the Bachelor of Medicine and Oral and Dental Surgery with the University of Manchester- UK. The programme saw its first cohort begin their studies in 2021.



East London University

MOU

General

2023


**East London University &
Alexandria National University**

MOU

General

2023

Partnership Agreement of Alexandria University with United Kingdom

			
UNIVERSITY OF ESSEX	MOU	GENERAL	2023
School of Computer Science and Electronic Engineering Essex University	Dual Degree	Engineering	2023
Essex Business School Essex University	Dual Degree	Business	2023
Essex University	Dual Degree	Political Sciences	2024
Essex University	Dual Degree	Graduate Studies & Research	2023
Partnership Agreement of Alexandria University with United Kingdom			
Southampton University	MOU	General	2021
Business School Southampton University	Progression Agreement	Business	2024
University of Strathclyde	MOU	Tourism & Hotels	2022
University of Victoria	MOU	Pharmacy Business	2023
Partnership Agreement of Alexandria University with United Kingdom			

Description:

Microsoft team, Moodle, Google classroom and social media are used.

Switching to blended-Learning for precautionary measures was implemented during the COVID-19 pandemic. Moodle, google classroom, social media were used to continue the relationship with the students while maintaining the precautionary measures until the University has an agreement with Microsoft team as a formal platform with blended learning 40% online and 60% traditional methods. Professors were not ready to switch to blended learning and some were completely not familiar with e-Learning platforms. Many workshops were conducted to enhance the use of blended learning and Microsoft team during the COVID-19 pandemic that organized by Innovation in Pedagogy and Aiding Distance Learning Unit.

The total number of online courses which were opened in academic year 2021/2022 were 3778 virtual courses (attached document, page 5). While, the total number of online courses which were opened in the academic year **2022/2023 & 2023/2024** were 2301 undergraduate virtual courses and 886 postgraduate virtual courses.

Digitalization, by promoting digital solutions

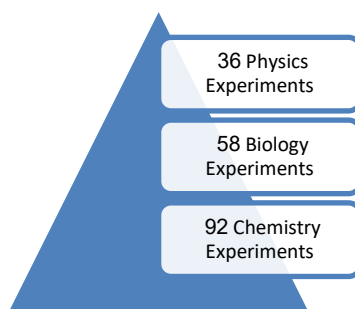
The General Framework for Digital Transformation at the University and the Center and Units for Measurement, Evaluation, and E-Learning as a Practical Example of Digital Transformation for that Purpose.

- Alexandria University began its serious efforts to develop processes in preparation for their digitization in 2017, where a committee for development, monitoring, and administrative reform was established to analyze processes, eliminate waste, and conserve university resources. The committee also examined the merging and unification of documents for the various processes at Alexandria University and its faculties. The digital transformation of the measurement and evaluation system at Alexandria University began in 2018.
- The Education Development Projects Management Unit funded four projects before 2018 to establish measurement and evaluation units.
- Three additional projects were funded after 2018 for the digital transformation of evaluation processes in three faculties. The university also completed the digital transformation in the remaining faculties through its own efforts, utilizing resources from the electronic testing project. The total funding for the most recent project was 3,799,519 EGP, and the outcomes have reached an advanced level in areas such as question banks and the use of modern applications in practical exams.

Virtual Labs

Virtual Labs were established in Alexandria University to give the opportunity for instructors and their students to practice various kinds of labs remotely without being physically present in the lab.

Virtual Labs are 3D virtual labs for students to practice physics, biology and chemistry lab Experiments (attached example of the system used). Mentioned above in Page P.29



Electronic Exam Halls (Alexandria University, EGYPT)

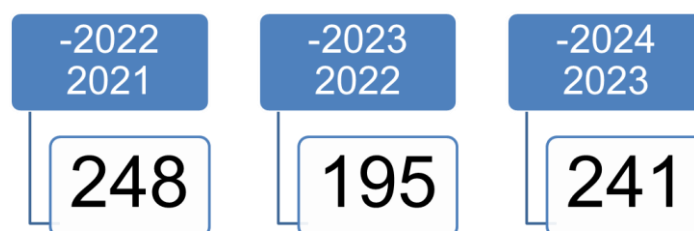


Electronic Exam Halls at the Faculty of Medicine (Alexandria University, EGYPT)

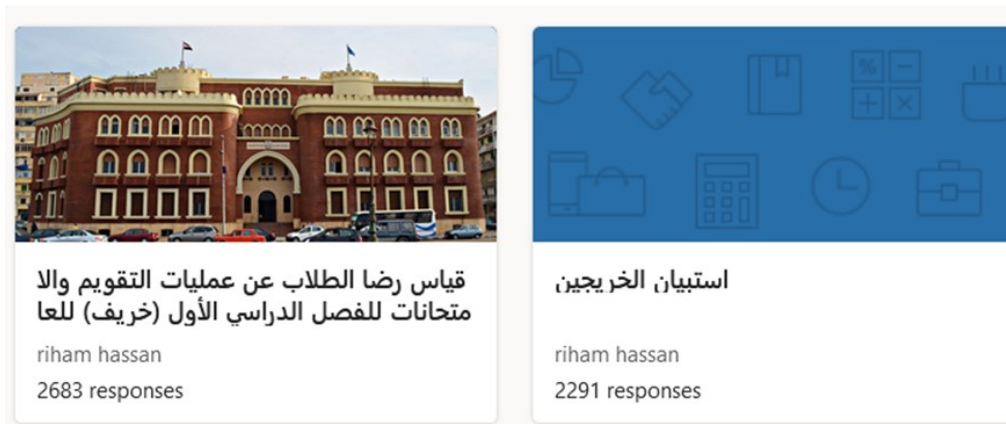


New Electronic Exam Halls at the Faculty of Nursing (Alexandria University, EGYPT)

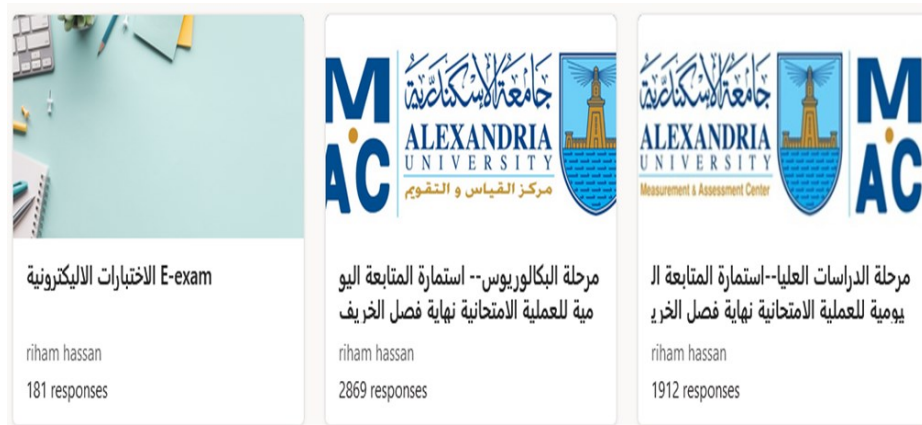
The total number of electronic exams in academic years 2021/2022, 2022/2023, 2023/2024



Some electronic forms used in managing the performance of the educational process, including academic and examinations, for Egyptian and international students, and for faculty members and support staff.



Measuring student satisfaction with assessment methods in Alexandria University



- 1-E-exam: <http://www.med.alexu.edu.eg/en/manchester-electronic-exams/>
- 2- Daily follow-up form for the educational process for the undergraduate studies.
- 3- Daily follow-up form for the educational process for the potgraduate studies.



Weekly follow-up form for the educational process for the undergraduate and postgraduate courses during the semester.

International Collaboration and Partnerships is performed by collaborating with other countries and institutions to share knowledge, technology, and expertise on GHG emission reduction.



Agreements With AU in Numbers

- European Countries : 52 signed + 37 waiting final approvals
- Asian Countries : 11 signed + 19 waiting final approvals
- North & South America Countries : 15 signed + 14 waiting final approvals
- African Countries : 7 signed + 6 waiting final approvals
- Arab Countries : 23 signed + 13 waiting final approvals

DUAL AND JOINT DEGREES IN NUMBERS

Dual Degrees : 49 with 5 countries

• (U.K. / U.S.A./ France/ Italy/ Spain)

Joint Degrees: 3 with 2 countries

• (U.K. / France)

Potential Programs: 87 with 8 countries

(U.K. / U.S.A./ France/ Italy/ Germany/ Canada/ Austria/ Malaysia)

Partnership Agreements of Alexandria University with U.K.

University	Type	Speciality	Date
Manchester University	Joint degree	Medicine	2020
Manchester University	Joint degree	Dentistry	2022
University of Essex	MOU	General	2023
School of Computer Science and Electronic Engineering Essex University	Dual Degree	Engineering	2023
Essex Business School Essex University	Dual Degree	Business	2023
Essex University	Dual Degree	Political Sciences	2024
Essex University	Dual Degree	Graduate Studies & Research	2023
East London University	MOU	General	2023
East London University & Alexandria National University	MOU	General	2023
Southampton University	MOU	General	2021
Business School Southampton University	Progression Agreement	Business	2024
University of Strathclyde	MOU	Tourism & Hotels	2022
University of Victoria	MOU	Pharmacy Business	2023

International collaborations

Partnership Agreements of Alexandria University with different Universities

Country (University)	Type	Specialty	Year
France (Université de Bordeaux, Aix-Marseille Université), Morocco (Université Cadi Ayyad à Marrakech, Université Sultan Moulay Slimane de Béni Mellal) Tunisia (Université de Tunis - El Manar) Lebanon (Université Saint-Esprit de Kaslik) Poland (Jagiellonian university in Kraków)	Dual Degree	Faculty of Science (Euro-Mediterranean Master of Neuroscience and Biotechnology)	2012
France (Bordeaux University, Tours University, Vichy Clermont de	Collaboration with Agence	Faculty of Science (Neurobiology)	2012

l'osteopathie), Morocco (Kady Ayad University, Private University of Marakesh)	Universitaire de la Francophonie (AUF)		
Italy (Catania University)	Dual Degree	Faculty of Science (Smart Environmental Management of Climate Change)	2019
Germany (Aachen)	Dual Degree	Faculty of Science (Natural Resources Sustainability for Land Development)	2022
Portugal (University of Aveiro)	Dual Degree	Faculty of Science (Sustainable Management of Fisheries and Aquaculture Science)	2022
France (IAE de Poitiers - Institut d'Administration des Entreprises)	Dual Degree	Faculty of Business	2023
New York, USA (Pace University)	Dual Degree	Faculty of Business	2023
Germany (University of Kassel and Brandenburgische TU)	Dual Degree	Faculty of Fine Art	2017
Germany (Karlsruhe Institut für Technologie)	Dual Degree	Boys Sport Faculty	2022
Germany (Technical University of Munich)	Dual Degree	Faculty of Agriculture	2020

Total Research Funds Dedicated to Sustainability Research (in US Dollars)



Total research fund dedicated to sustainability research in 2021 = 1,716,690 US Dollars

Total research fund dedicated to sustainability research in 2022 = 2,128,253 US Dollars

Total research fund dedicated to sustainability research in 2023 = 1,198,113 US Dollars

The averaged annum last 3 years of research fund dedicated to sustainability research = 1,681,018.67 US Dollars

Total research fund in 2021 = 3,043,755 US Dollars

Total research fund in 2022 = 2,564,363 US Dollars

Total research fund in 2023 = 1,854,833 US Dollars

The averaged annum last 3 years of research fund = 2,487,650.33 US Dollars

The recent decrease in the research funding amount expressed in US dollars, in year 2023 compared to year 2022, from 2,564,363 US dollar to 1,854,833 US dollar, is directly attributable to the significant depreciation of the Egyptian pound. Over the past period, the exchange rate has shifted from 19 EGP to 49 EGP per US dollar. While this change results in a lower dollar value of the funding, it is important to note that in local currency terms, the total funding has actually increased. This reflects the impact of the currency devaluation on the funding's purchasing power within Egypt.

Additional evidence link: www.pmu.alexu.edu.eg

Example of some projects:

1. **Natural Resources Sustainability for Land Development (Erasmus+ Project, European Union) in collaboration of Alexandria University (Egypt) with Aachen University (Germany) Erasmus+ Project, European Union**

The participating countries and Universities: Germany (RWTH Aachen), Egypt (Alexandria University, Heliopolis University, the American University in Cairo, Aswan University), Cyprus (CITY College – Sheffield University), Italy (University of Palermo), Spain (Technical University of Madrid).

Additional evidence link: <https://suremap.eu>
<https://www.facebook.com/suremapproject>
<https://www.linkedin.com/company/suremap-project>

2. **Production of Bio-Diesel from Algae in Selected Mediterranean Countries: Med-Algae Project, Faculty of Sciecncce, Alexandria University, Egypt**

It is funded by CBCMED-ENPI (CROSS BORDER COOPERATION IN THE MEDITERRANEAN-European Neighborhood and Partnership Instrument)

3. **Smart Environmental Management of Climate Change in collaboration with Catania University, Italy (AdapTm-Erasmus project)**

The participating countries and Universities: Italy, Greece, Lithuania, Slovenia, Egypt (Alexandria University, Suez Canal University, South Valley University, Arab Academy for Science and Technology and Maritime Transport).

Additional evidence link: <https://emuni.si> › ADAPTM-handout_2_Mod

4. **Sustainable Management of Fisheries and Aquaculture Science, in collaboration with University of Aveiro, Portugal (Erasmus+ Project, European Union)**

The participating countries and Universities: Portugal (University of Aveiro), Italy, Croatia, Slovenia, Egypt (Alexandria University, Aswan University, Matrouh University, Arab Academy for Science and Technology and Maritime Transport).

Additional evidence link: <http://fishaqu.eu>

5. **Alexandria University Center for Maritime Archaeology & Underwater Cultural Heritage was established as a European Union project under the EU-Tempus III Program.** The project aimed to create a specialized center for postgraduate studies which provides education and training at different levels in aspects of maritime and underwater archaeology, and to develop a postgraduate Diploma and Master programs in Maritime Archaeology and Underwater Cultural Heritage, designed and structured in accordance with EU standards.

Additional evidence link: <http://www.cmauch.org/>
<https://alexu.edu.eg/index.php/en/2015-11-24-10-43-20/training>

6. **The Renewable Energy Center at Faculty of Agriculture Alexandria University.**

- The center along with partner from Greece, Germany, Spain Morocco and Tunisia awarded a Six Framework project (FP6 project) from the European commission to developed Hybrid renewable energy system to supply service for Mediterranean partner countries.
- The center representing AU and Las Palm University in Spain awarded a project from the Spanish cooperation Spanish Agency for International Co-Operation (AECE), in the area of water desalination by Renewable Energy.
- Recently with cooperation with the Faculty of Engineering, the center awarded an STDF project. The project title is "Development of hybrid renewable energy - RO desalination system and minigrids for remote and desert areas in Egypt (HAREDES)".

The Center Goals are to:

- Remove the knowledge barriers against the installation of RE systems in Egypt.
- Enhance the utilization of renewable energy.
- Develop educational and e-learning program about renewable energy.
- Educate students, graduates, public and key stakeholders in Egypt and the Arab world on the various sources of renewable energy and its successful applications.
- Build the infrastructure necessary to develop, install and maintain renewable energy applications.



- Present a show case or a model for the successful utilization of renewable energy in Egypt.
- Continue excellence in all of our educational programs.

7. Fab Lab Project (Alexandria University)

The overall goal of the project is to develop the circular and creative economy model by creating an innovation place equipped with machines Low Tech in Alexandria is hosted by Alexandria University. This place will play a role in creating local dynamism Transversal to become a crossroads between different audiences and actors from different backgrounds. To connect waste collection Plastic and its evaluation. Horizons Solidarités and the University of Corsica, in partnership with their peers in Alexandria, based on their experience in Fab Lab Corte, conduct experiments on recreating value for plastic in Alexandria. The goal is to connect all actors from assembly through training to development and dissemination (Discussed in detail in page 23, 24).

The scope of work in the project

- Environment, climate, and energy
- Education, social aspect, and research

8. Renewable sources in electricity production project in cooperation with the European Union in Alexandria University buildings in 2023-2024

9. BLUE-ERA: Curriculum Development for the Sustainable Blue Economy Study toward the achievement of Ocean Decade in Tunisia, Egypt, and Jordan. ERASMUS-EDU-2023-CBHE-STRAND-2 (Erasmus+).

The funded research projects at Alexandria University, running from year 2019-2024

Research Projects 2019-2024					
	Project Title	Start Year	End Year	Funding Authorities	SDGs
1	Comparative study of the microbial community in colorectal cancer among Egyptian patients	2019	2021	National	Good health and well-being
2	targeting Toll like receptors in oral squamous cell carcinoma as apromising gene cancer therapy	2019	2023	National	Good health and well-being
3	Short-term and long-term trans-generational side effects of Sofosbuvir: Experimental study on female rats	2019	2022	National	
4	Establishment of familial high risk breast cancer screening program	2019	2021	National	Good health and well-being
5	Evaluation of the performance of an innovative microbial fuel cell and its applications in Water and industrial Waste Water desalination	2019	2020	National	Clean water and sanitation
6	The use of real Time PCR (qPCR) for the identification of Potato Viruses, PVY genotypes identification and PVY/host interaction in different Potato Varieties	2019	2021	National	
7	A pre-clinical study for safe sterilization of male stray dogs and field rats using gossypol	2019	2023	National	
8	Relationship between PGPR and plant metal homeostasis in west of Alexandria :A potential role to mop up the heavy metals contaminated sites	2019	2021	National	
9	Neurophysiological, biological and behavioral assessment of efficacy of shields behavioral intervention program in adolescents with ADHD	2019	2022	National	Good health and well-being

10	Childhood Epilepsy: Overcoming Challenges in Diagnosis and Treatment	2019	2023	National	Good health and well-being
11	Enhancing Resource Recovery and Improving Wastewater Reuse Through Synergistic Cooperation between Bioelectrochemical Systems and Forward Osmosis	2019	2024	Egyptian/American	Clean water and sanitation
12	An integrated system for sustainable water management in agricultur	2019	2022	European Union	Climate Action
13	Innovative Sustainable Solutions for broomrapes: Prevention and integrated Pest... management approaches to overcome parasitism in Mediterranean cropping Systems	2019	2023	European Union	Climate Action
14	Agro-ecological genomics and molecular systematics of invasive drosophilid pests and frugivorous insects in Egypt	2019	2021	European Union	Climate Action
15	An Innovative method for producing ultra-high elastic piezoelectric nanofibrous layers using solution-blowing technique	2019	2021	National	Climate Action
16	Molecular epidemiology and antimicrobial resistance mechanisms in staphylococci from various geographic regions in Africa	2019	2023	European Union	Good health and well-being
17	Excellence in the educational process in the light of applications of technology	2020	2022	National	Quality Education
18	Utilization of Egyptian Flax fibre and Flax Cord for High Value Added Technical Applications	2020	2023	National	Responsible consumption and production
19	River and WasteWater Treatment Using Microbial Flocculants	2020	2022	National	Clean water and sanitation
20	Innovative solutions for the Development of Active Intelligent and Sustainable Food Packaging Materials	2020	2023	National	Affordable and Clean Energy
21	Milk and meat safety and greenhouse ags emissions from ruminants fed on organo modified nanoclays as feed additives	2020	2023	National	Climate Action
22	Microbial degradation of phenol containing petroleum effluents and its application in electricity generation	2020	2023	National	Affordable and Clean Energy
23	Development of Antimicrobial Electrospun Polymeric Nanofibers Composites Membrane for Municipal Water Safety : prototype Construction	2020	2022	National	Clean water and sanitation
24	Production and optimization of bio-based nano-graphene for innovative water treatment technology	2020	2021	National	Clean water and sanitation
25	Green Chemistry: Nano-implications from research to industry	2020	2020	National	Quality Education
26	Radiation protection as a habit for Health Occupational radiation workers	2020	2021	National	Good health and well-being
27	The Safety & Efficacy of Imatinib a Tyrosine Kinase Inhibitor for the Treatment of SARS-COV-2 Induced Pneumonia: A Pilot Study	2020	2022	National	Good health and well-being

28	Synthesis of Antibody -targeted Drug-polymer Conjugates as Nanomedicine product for Cancer Therapy	2020	2023	National	Good health and well-being
29	Design , synthesis, nanoformulation and biological evaluation of novel multitarget anticancer agents	2020	2022	National	Good health and well-being
30	An exploratory survey of COVID-19 humoral immunity among Egyptian general population and healthcare workers	2020	2021	National	Good health and well-being
31	Ethyl Formate as Alternative to Methyl Bromide for Controlling storehouse pests on Dates	2020	2023	National	Climate Action
32	Powerful strategy for treating triple negative breast Cancer: Silencing miR-21 by small interfering RNA loaded-Chitosan Nanoparticles	2020	2022	National	Good health and well-being
33	Economical Production Line of Antimicrobial Nano- treated Face Masks	2020	2021	National	Good health and well-being
34	The potential role of microRNAs conjugated nanoparticles in enhancing cardiac regeneration. In vitro study	2020	2024	National	Good health and well-being
35	Design and Implementation of a Smart and Hybrid Multiport Solid-State Transformer for Marine Applications	2020	2022	National	Industry, Innovation and Infrastructure
36	Combination of Neuroplacement Therapy With PLGA Nanoparticles for Alzheimer's Disease Treatment	2020	2023	National	Good health and well-being
37	Increasing the main active substances in the Wonka plant using CRISPR/Cas9 technology	2020	2023	National	Climate Action
38	Design, Manufacture and Test a Ventilator for Corona Virus Patients in Egypt	2020	2020	National	Good health and well-being
39	Safe, rapid antimicrobial disinfectants for controlling of biofilms formation in diary industries	2020	2023	National	Decent work and Economic Growth
40	Towards Breeding of Promising Hybrids and Cultivars of some Strategic Vegetables Crops	2020	2023	National	Climate Action
41	Completion of the pre-clinical study file for nanoparticles loaded with berberine as a promising therapeutic route for liver and lung cancer.	2020	2022	National	Good health and well-being
42	Improvement of the Performance of Reverse Osmosis Membranes using Eco-friendly Materials	2020	2022	National	Affordable and Clean Energy
43	A Road Map for Investing Egyptian Research Outputs in The Field of Diagnostic Kits With Economic Values	2020	2020	National	Decent work and Economic Growth
44	Towards the Establishment of a Globally Complaint Egyptian Active Pharmaceutical Ingredient Facility for Critical Diseases	2020	2023	National	Good health and well-being

45	Design, synthesis and evaluation of novel anti- coronavirus agents	2020	2022	National	Good health and well-being
46	Establishing entrepreneurship clubs	2020	2021	National	Decent work and Economic Growth
47	Preclinical evaluation of some sericin nanoparticles as therapeutic materials for microbial infections and colon, lung, and liver cancer.	2020	2023	National	Good health and well-being
48	TICO	2020	2023	National	Partnership for the goals
49	Creating a unit for early diagnosis and follow-up of critical heart conditions	2020	2020	National	Good health and well-being
50	Enhancing the practical applications of some academic courses by producing short educational animated films	2020	2020	National	Quality Education
51	Exploring the desert through an unmanned ground vehicle	2020	2020	National	Climate Action
52	Manufacturing an environmentally friendly robotic submarine	2020	2020	National	Affordable and Clean Energy
53	Precision measurements and digital tests laboratory	2020	2022	National	Good health and well-being
54	Developing the environmental pollutants analysis unit laboratory at the Higher Institute of Public Health	2020	2022	National	Good health and well-being
55	Design and construction of an integrated, smart, electronic irrigation system powered by solar energy	2020	2020	National	Affordable and Clean Energy
56	Design and create an electronic unit to monitor engine performance with the aim of detecting faults, diagnosing them, and offering solutions	2020	2020	National	Decent work and Economic Growth
57	Design and construction of a smart, solar-powered arm to identify and collect ripe agricultural fruits	2020	2020	National	Responsible consumption and production
58	Metabolic footprint of HDV mono-and HBV/HDV super-infections	2020	2020	National	Good health and well-being
59	Development of an Irrigation Management Information and Communication System (IMICS) for the humid tropical region of Kerala and for the dry climate of Egypt as a decision support systems (DSS) tool to improve crop productivity.	2020	2022	National	Climate Action
60	Feasibility Study for Developing Large Scale Narrow Band Gap Polymeric Solar Cell: Technical Challenges and Life Cycle Economic	2020	2023	National	Decent work and Economic Growth

61	Sustainable technologies and methodologies to improve quality and extend product shelf life in the Mediterranean agro-food supply chain	2020	2024	National	Decent work and Economic Growth
62	Sustainable Resource Management Programme to solve Desert-ed challenges	2020	2023	European Union	Climate Action
63	knowledge exchange in Sustainable Fisheries Management and Aquaculture in the Mediterranean region /FishAqu	2020	2023	European Union	Partnership for the goals
64	Spatial Data Infrastructures and Earth Observation Education and Training for North-Africa	2020	2023	European Union	Life on Land
65	New Professional Diploma in Plant Clinic and Phytosanitary Technologies	2020	2023	European Union	Climate Action
66	Tracing Rice and Valorizing Side Streams along Mediterranean block chain	2020	2023	European Union	Decent work and Economic Growth
67	Reframing Heritage Education in Egypt / Re-HeED	2020	2023	European Union	Quality Education
68	Knowledge Triangle, Innova lion : Reinforcing of Education- Research II- Health & Medical Links	2021	2023	European Union	Quality Education
69	A novel combined approach for Poultry slaughterhouse wastewater treatment: prototype design and development	2021	2024	National	Clean water and sanitation
70	Safety and Therapeutic efficacy of Cyclosporine plus standard of care treatment on ARDS in COVID-19 patients at Alexandria university hospitals in 2020: A comparativey	2021	2022	National	Good health and well-being
71	Alexandria University Center of Excellence for Smart Urban Governance (AIEUX-COE-SUG)	2021	2022	National	Decent work and Economic Growth
72	University Community Urban Lab for Interactive Learning and Innovative Societal Solutions (UC-URBAN LAB)	2021	2024	National	Decent work and Economic Growth
73	Real time data monitoring system of Textile manufacturing processes	2021	2023	National	Decent work and Economic Growth
74	Agricultural sustainability and water reuse in Egypt : innovative wastewater treatment and soil health	2021	2024	National	Clean water and sanitation
75	Development of Herbal Extraction Unit for the Production of Standardized Herbal Products for Human Use	2021	2023	National	Good health and well-being
76	Pesticide Residues Unit Laboratory - Central Laboratory Environmental Pollutants Desalination Unit at the Higher Institute of Public Health	2021	2022	National	Good health and well-being
77	Developing a smart irrigation system to evaluate and monitor the quality of the green area and maximize the use of available water resources	2021	2021	National	Climate Action

78	Design and implementation of a self-propelled unit for landscaping maintenance (mowing and aeration)	2021	2021	National	Climate Action
79	Developing students' skills in using regenerative medicine and tissue engineering to treat some bone injuries in the veterinary field	2021	2021	National	
80	Creating pictorial paintings and products with healing powers inspired by Bach flowers to treat post-traumatic stress disorder associated with the Corona pandemic to serve small projects.	2021	2021	National	Responsible consumption and production
81	Sustainable Asphalt Mixtures Using Warm Asphalt Additives and Steel Slag for Egyptian Environmental Condition	2021	2023	National	Affordable and Clean Energy
82	Support and Qualifying of Educational Programs for International Accreditation in Higher Education Institutions	2021	2023	National	Quality Education
83	Using Mixed-mode ventilation System for improving Energy Efficiency in Office Buildings	2021	2023	National	Decent work and Economic Growth
84	Celecoxib-Based Fused Ring Derivatives: Therapeutic and Molecular Roles in Induced Liver Injury in Experimental Animals	2021	2023	National	
85	CRISPR/Cas-mediated Genetic Modulation of PDL-1 and KRAS in Cancer Cells	2021	2023	National	Good health and well-being
86	Autophagy and Kinase Inhibitors as a Potential Combined Therapy for Cancer	2021	2023	National	Good health and well-being
87	Detection of oral microbiota population differences' in oral squamous cell carcinoma versus premalignant lesions	2021	2023	National	Good health and well-being
88	Ex vivo expansion of human hematopoietic stem cells	2021	2023	National	Good health and well-being
89	Anti-obesity potential of Superparamagnetic iron oxide nanoparticles in experimental model of obesity	2021	2022	National	Good health and well-being
90	Growth Factor-Laden Hydrogel For Regenerative Endodontic Applications	2021	2024	National	
91	Insect-based natural compounds: An upcoming therapeutic approach to target human lung cancer	2021	2024	National	Good health and well-being
92	Synthesis, characterization, and computational studies on new synthesized azo-based ligands and their metal complexes	2021	2022	National	
93	TLR-4/Wnt correlation as a new immunotherapeutic strategy in Oral Squamous cell carcinoma	2021	2023	National	Good health and well-being
94	Comparing silver diamine fluoride, sodium fluoride varnish and behavior modification in the prevention of early childhood caries: a field trial	2021	2023	National	Good health and well-being

95	An Innovative formula of Rice Straw to Control Corrosion in Various Media	2021	2023	National	Industry, Innovation and Infrastructure
96	Beneficial role of insect-based therapy to target liver tumor	2021	2024	National	Good health and well-being
97	The Potential role of Nanoparticle-Based Delivery of microRNA fortargeted Oral squamous cell carcinoma gene therapy	2021	2023	National	Good health and well-being
98	Evaluation the Role of Exosomes in Tumorigenic behavior of Triple Negative Breast Cancer: Chemoresistance, the Pre-Metastatic Niche and Metastasis	2021	2024	National	Good health and well-being
99	Towards a green Economy Farm: Innovative Solar Collector for Biochar Production from Agricultural & Food Industry Wastes, Power Generation, and Crops Drying	2021	2023	National	Affordable and Clean Energy
100	Reverse Engineering Lab for Spare Parts (RELSS)	2021	2024	National	
101	Wastewater Treatment by Integrated Green Coagulation And Membrane Technology for Reuse	2021	2024	National	Clean water and sanitation
102	Maternal and fetalprogramming in preeclampsic rats modulates cardiovascular and renal manifestations of endotoxemia	2021	2024	National	
103	Design and Manufacturing of Electric Car National Consortium	2021	2023	National	Affordable and Clean Energy
104	A project to develop systems for measuring and evaluating the Faculty of Tourism and Hotels	2021	2023	National	Quality Education
105	Digital transformation in measurement and evaluation systems	2021	2023	National	Quality Education
106	A project to develop measurement and evaluation systems in Egyptian universities	2021	2023	National	Quality Education
107	ImPUISe	2021	2024	European Union	
108	Integrating biomarkers and healthcare solutions to deliver personalized medicine and intervention in the home and community for the upper leg of children with stroke-related hemiplegia.	2021	2024	National	Good health and well-being
109	NEXUS-NESS	2022	2025	European Union	Climate Action
110	Use of immunoepitidomics to inform development of the next generation of tropical theileriosis vaccines	2021	2022	European Union	Good health and well-being
111	PiezoACT membranes : Piezo-Active Nanofibrous Self- decontamination Facemasks/ Filters using Solution Blow Spinning in Egypt	2022	2023	European Union	Climate Action
112	Documentation of Wild Egyptian Flora using DNA-Barcoding Technology	2022	2024	National	Climate Action

113	Accelerating the Impacts of Solar Driven MOF Adsorption System for Water Desalination and Cooling in Egypt	2022	2024	European Union	Climate Action
114	Engineering microbial cells as a platform for producing valuable terpenes	2022	2024	National	Responsible consumption and production
115	Internally synthesized rumen yeasts mixed with organically modified montmorillonite in nano form as new food additives for ruminants.	2022	2024	National	Good health and well-being
116	Designing an industrial prototype for innovating microbial -based feed additives using nano-encapsulation technology for improving performance and immunity of farm animals	2022	2024	National	Decent work and Economic Growth
117	EGYPTIAN CANCER RESEARCH NETWORK	2022	2024	National	Good health and well-being
118	Incubator for Pedagogical Innovation and applications serving Learning Objectives and Teaching- PILOT Incubator	2022	2025	National	Quality Education
119	Immune stimulation, gene expression and disease resistance in Nile tilapia, Oreochromis niloticus, by marine extremophilic bacteria	2022	2023	National	
120	Smart thermal and photo label for monitoring consumables Safety	2022	2025	National	Responsible consumption and production
121	Experimental Evaluation of PCM Melting using different tube arrangements in a shell and tube latent heat thermal storage unit	2022	2023	National	Affordable and Clean Energy
122	Topical Selenium Hydrogel as a Treatment for Oral Ulcerative lesions	2022	2023	National	Good health and well-being
123	Monitoring and Management of Harmful Algal Blooms in northern Coastal Waters of Egypt for ensuring food safety	2022	2024	National	
124	Inflammatory mechanisms underlying the comorbidity between at deficit/hyperactivity disorder(ADHD) and plain sensitization	2022	2024	National	Good health and well-being
125	The second part of the Egyptian Wild Plant Encyclopedia	2022	2024	National	Climate Action
126	Potential of Rice Husk and Sugarcane Bagasse Biochars Supplemented to Acacia and Leucaena Based Diet on Nutrients Digestibility and Greenhouse Gas Emission From Dairy Manure	2022	2027	European Union	Good health and well-being
127	The impact of gut microbiome-guided dietary intervention using Mediterranean gluten -free diet on clinical profile and quality of life among a sample of relapsing remitting multiple sclerosis: A prospective study	2022	2024	National	Good health and well-being

128	L'éco-Citoyenneté en Egypte : sensibilisation aux ODO, transmission d'expérience et perspectives de développement	2022	2023	National	Sustainable Cities and Communities
129	Online Pharmacogenomics and Personalized Medicine Postgraduate Program-oppm	2022	2025	European Union	Good health and well-being
130	Hybrid reporter nanoconjugates as next generation cancer theranostics	2022	2025	National	Good health and well-being
131	Advancing non -conventional Water management for innovative climate- resilient water governance in the Mediterranean Area (AG-WaMED)	2022	2025	National	Clean water and sanitation
132	Downscaling atmospheric components over Egypt under different future climate change scenarios (2065-2100)	2022	2024	National	Climate Action
133	Construction of a Self-Charging Unit for Collecting Wasted Mechanical Energy from Basic Human Motion	2023	2025	National	Affordable and Clean Energy
134	Preparation of NP-nucleic acid insecticides and its application in pest control	2023	2025	National	Climate Action
135	Electronic Dental Systems for detection and surveillance of oral diseases in Egypt (EDS-EGY)	2023	2025	National	Good health and well-being
136	Universities resilient to climate change: Public awareness, sustainable education and technology development as principal strategies towards net Zero Carbon Campus	2023	2024	European Union	Climate Action
137	AI-Based Tool for Automatic Segmentation of Dental Pulp after Therapy and Tissue Regeneration	2023	2023	National	Good health and well-being
138	Microbial-augmented biochar to control soil-borne plant diseases and mitigate climate change	2023	2023	National	Climate Action
139	Water desalination and food processing techniques at Alexandria University	2023	2024	National	Clean water and sanitation
140	Selection and production of starter cultures for the manufacture of Ras, Talaga and Domiatti cheeses and acceleration of Ras cheese ripening	2023	2025	National	
141	Manufacture of Ras Cheese using starter culture With the best salting method	2023	2023	National	Industry, Innovation and Infrastructure
142	Production of a natural preservative for milk and study of its effect on milk components	2023	2025	National	Industry, Innovation and Infrastructure
143	The future vision of green hydrogen in Egypt: a technical and economic study	2023	2024	National	Decent work and Economic Growth

144	Unraveling the possible mechanisms of muscle regeneration in statin-induced-myopathy in rats: in-vivo and in-vitro studies aided with artificial intelligence	2023	2025	National	Good health and well-being
145	Minimal Residual Disease Assessment in Multiple Myeloma by Next-Generation Sequencing	2023	2025	National	Good health and well-being
146	Study of the neuroprotective effects of stereostatic transplanted non- tumorigenic MUSE cells in a rat model of insecticides induced Parkinson disease	2023	2025	National	Good health and well-being
147	Novel PPAR-based molecular platforms for the treatment of cognitive dysfunction and metabolic impairment: When Alzheimer's constitutes type 3 diabetes	2023	2025	National	Good health and well-being
148	Tumor-educated platelet RNAs as potential biomarkers for diagnosis of oral squamous cell carcinoma	2023	2025	National	Good health and well-being
149	Digital Twin Based Information Systems in Education 4.0: The Case of Alexandria University New Abis Campus (DTE4)	2023	2025	National	Quality Education
150	Design and Fabrication of Biodiesel Burner test rig	2023	2025	National	Industry, Innovation and Infrastructure
151	New Framework for Damage detection in new Egyptian smart cities based on self-powered structural health monitoring technique integrated with the developer	2023	2025	National	Affordable and Clean Energy
152	Agronomic characterization and genetic diversity of Quinoa genotypes under heat and drought stresses in North-West Egypt	2023	2025	National	Climate Action
153	Effect of some bio fertilizers, virmi compost and Salicylic acid on citrus rootstock salinity tolerance	2023	2025	National	Climate Action
154	Rivaroxaban, Enoxaparin and clopidogrel structural ameliorate metabolic and manifestations of NASH in rats via anti-anti-inflammatory coagulation and mechanisms	2023	2025	National	
155	The Neuroprotective Effects of Novel Diabetes: Possible Antidiabetics in Type 2 Mechanism for Halting Cognitive Deterioration	2023	2025	National	Good health and well-being
156	Clinical Evaluation and Antimicrobial Effect Chemo-Mechanical Caries of Papain Based Removal Agents in Young Permanent Molars (Randomized Controlled Clinical Trial (A	2023	2026	National	Good health and well-being
157	Targeted Muti-functioning RNA-based approach for nanoparticles as a new treatment of chronic kidney disease	2023	2026	National	Good health and well-being
158	IN Vitro Meat Production Utilizing Stem Cells and Climate-Friendly as a Sustainable Alternative Source of Protein	2023	2025	National	Zero Hunger

159	sulfolobus solfataricus L-Asparaginase: Escherichia coli, purification, expression in biochemical characterization and cytotoxicity assessment	2023	2025	National	Good health and well-being
160	Environmentally friendly methods for termite and wood detecting and controlling borer infestations in Alexandria Governorate	2023	2026	National	Decent work and Economic Growth
161	Preparation of prototype of Saccharomyces bentonite composite as a cerevisiae nano novel feed supplement to mitigate enteric gases greenhouse	2023	2025	National	Climate Action
162	Screening for some mutations in the PAH Egyptian phenylketonuria gene in a group of patients attending Alexandria University Hospital	2023	2025	National	Good health and well-being
163	Potential regenerative capacity of non-invitro model of tumorigenic muse cells on cardiac ischemic reperfusion injury	2023	2026	National	Good health and well-being
164	Cell-free DNA genetic variants in triple-using next- negative breast cancer generation sequencing	2023	2026	National	Good health and well-being
165	Production, modification and new prospects from biomass waste of biochar derived	2023	2026	National	Affordable and Clean Energy
166	The prospective ameliorative effect of zinc and melatonin against oxide nanoparticles cadmium oxide nanoparticles-induced integrated biomarker-based toxicity: an approach for ecotoxicological evaluation in a model organism Blaps polycresta	2023	2026	National	Climate Action
167	Microbial technology as a bioremediation removal from tool for heavy metals industrial wastewater through proteomic approaches and nanotechnological	2023	2025	National	Clean water and sanitation
168	The potential of using some Mint and effective beta Rosemary extracts as lactamase inhibitors	2023	2025	National	Good health and well-being
169	Epigenetic alterations of enhancer of zeste Stem Cell-Derived homolog Mesenchymal Small Extracellular Vesicles: A Novel Pyroptosis signature in Liver Approach for Cancer	2023	2025	National	Good health and well-being
170	Impact of Silicon Nanoparticles on Molecular Physiological Performance and Characterization of Two Cotton Cultivars Moisture Levels Under Different Soil	2023	2026	National	Decent work and Economic Growth
171	Studies on human placental extract as a against diabetes- therapeutic promise mediated neurodegeneration in experimental rats	2023	2026	National	
172	Triazoles conjugates nanoformulae for -1,2,3 bacteria treatment multidrug resistant	2023	2025	National	Good health and well-being

173	The potential effect of <i>Persea americana</i> modulation of peel extract on the Tryptophan dioxygenase signaling pathway Liver-induced rats in Non Alcoholic Fatty	2023	2025	National	
174	Actinomycetes cell mass as a non-traditional aquaculture fish diets feed ingredient in	2023	2025	National	Decent work and Economic Growth
175	Avocado peel methanolic extract could PI3K/AKT/SIRT-1/HIF1 modulate the signaling pathway and treat high-fat diet-fibrosis in rats induced liver	2023	2026	National	
176	Experimental tailoring of MOF/BiOX photocatalytic nanocomposite of improved water decontamination supported with DFT computations	2023	2026	National	Clean water and sanitation
177	Applied Coordination Chemistry of Containing Biologically Active Ligands Chalcogenide Atoms	2023	2026	National	
178	Complete preclinical profile of characterized <i>Salix mucronate</i> active nanoformulation of fraction as anti-hepatocellular carcinoma	2023	2026	National	Good health and well-being
179	Effect of <i>Momordica Charantia</i> Seeds on Hepatotoxicity in Male Albino Lead Induced Rats	2023	2026	National	
180	Marine Microbial - asparaginase Molecular Chara characterization and Biochemistry Possible applications as an anti- Cancer drug	2023	2025	National	Good health and well-being
181	Water-Energy -Food Development of Novel - Ecosystem (WEFE) Mini -complex Based on Standalone a	2023	2026	National	Affordable and Clean Energy
182	Knowledge Exchange in Aquatic Animals Medicine and Ecosystem Health in the Mediterranean and sub-Saharan Regions.	2024	2027	European union Erasmus+	Good health and well-being
183	Regenerating Deserts - The Habiba & Moghra Pilot Cases	2024	2027	European union DESCA (Horizon Europe)	Life on land
184	Modernization of Land and Urban Management Education in Southern Mediterranean (MLUMSE)	2024	2027	European union Erasmus+	Life on land
185	Localization and Egyptianization of foreign cow breeds with high meat and milk production	2024	2027	Academy of Scientific Research	Zero Hunger
186	Evaluation of some in vitro embryo production protocols to accelerate genetic improvement in cows in Egypt	2024	2027	Academy of Scientific Research	Good health and well-being
187	Maximizing the productivity of farm animals by using non-conventional, salt-tolerant feed materials	2024	2027	Academy of Scientific Research	Zero Hunger
188	Addition of metformin to neoadjuvant chemotherapy in ovarian cancer patients with the use of circulating tumor DNA and circulating tumor cells as predictive biomarkers	2024	2026	Alexandria University initiative to support research RSI 2	Good health and well-being

189	EXPRESSION OF SELECTED INHIBITORY IMMUNE CHECKPOINT MOLECULES IN A COHORT OF CHILDHOOD B-CELL ACUTE LYMPHOBLASTIC LEUKEMIA	2024	2026	Alexandria University initiative to support research RSI 2	Good health and well-being
190	Potential Biomarkers Associated with Autism: Developing A Comprehensive Screening Panel for Autistic Spectrum Disorder	2024	2026	Alexandria University initiative to support research RSI 2	Good health and well-being
191	Optimizing multi-kinase inhibitors for augmenting immunotherapeutic agents in breast cancer: Synthesis, nanoformulation and biological evaluation	2024	2026	Alexandria University initiative to support research RSI 2	Good health and well-being
192	Removal of microbiological contaminants from wastewater using innovative pyroelectric nanocomposite	2024	2026	Alexandria University initiative to support research RSI 2	Good health and well-being
193	Establishing and Integrating Electronic Cancer Registry at Medical Research Institute, Alexandria University, Egypt.	2024	2026	Alexandria University initiative to support research RSI 2	Good health and well-being
194	Boosting Second Harmonic Generation in Integrated Photonic Platforms	2024	2026	Alexandria University initiative to support research RSI 2	Climate Action
195	Millet potential as a sustainable nutrient in the development of some innovative dairy products	2024	2026	Alexandria University initiative to support research RSI 2	Zero Hunger
196	Developing A new ACTinobacteria-based Biocontrol Product Against Plant Viral Diseases (zucchini yellow mosaic virus) – ACTVBiocontrol	2024	2026	Alexandria University initiative to support research RSI 2	Good health and well-being
197	Employing psychodrama for Psychological support using therapeutic dolls with children with cancer and their families	2024	2026	Alexandria University initiative to support research RSI 2	Good health and well-being
198	Novel co-delivery of doxorubicin and phycocyanin extract loaded Klebsiella pneumoniae ghost to induce pyroptosis signature and overcome drug resistance in non- small cell lung cell lines	2024	2026	Alexandria University initiative to support research RSI 2	Good health and well-being
199	Interferon Y enriched Extracellular Vesicles as a novel therapeutic modality for multiple sclerosis	2024	2026	Minactrams (European Union)	Good health and well-being
200	Alexandria Innoversity Challenge (IVC)	21/4/2024	30/6/2024	Fund for Innovators and Geniuses - Ministry of Higher Education and Scientific Research	Industry, Innovation and Infrastructure
201	Thermoelasticity in semiconductors and its applications	2024	2026	Science, Technology and Innovation Funding Authority (STDF)	Affordable and Clean Energy



Graduate Student Projects Funded by the Science, Technology, and Innovation Funding Authority (STDF)

No.	Faculty/Faculties	Project Name	Start Year	End Year	Funding Agency
1	Faculty of Fine Arts	Using a Mixed Ventilation System to Improve Energy Efficiency in Administrative Buildings	2021	2023	Science, Technology, and Innovation Funding Authority (STDF)
2	Institute of Graduate Studies and Research	Integrated Motion Derivatives Based on Celecoxib: Therapeutic and Molecular Roles in Experimentally Induced Liver Injury in Animals	2021	2023	Science, Technology, and Innovation Funding Authority (STDF)
3	Institute of Graduate Studies and Research	Genetic Modification of KRAS and PDL-1 Using CRISPR Technology in Cancer Cells	2021	2023	Science, Technology, and Innovation Funding Authority (STDF)
4	Institute of Graduate Studies and Research	Autophagy and Kinase Inhibitors as an Effective Combination Therapy for Cancer	2021	2023	Science, Technology, and Innovation Funding Authority (STDF)
5	Faculty of Dentistry	Detection of Oral Microbial Differences in Squamous Cell Carcinoma Versus Pre-cancerous Changes	2021	2023	Science, Technology, and Innovation Funding Authority (STDF)
6	Faculty of Medicine	Ex Vivo Expansion of Human Hematopoietic Stem Cells	2021	2023	Science, Technology, and Innovation Funding Authority (STDF)
7	Medical Research Institute	Potential Role of Superparamagnetic Iron Oxide Particles in Combating Obesity in an Experimental Obesity Model	2021	2022	Science, Technology, and Innovation Funding Authority (STDF)
8	Faculty of Dentistry	Hydrogel Loaded with Growth Factors for Regenerative Pulpal Applications	2021	2024	Science, Technology, and Innovation Funding Authority (STDF)
9	Faculty of Science	Preparation, Characterization, and Computational Studies of Azo-based Ligands and Their Metal Complexes	2021	2022	Science, Technology, and Innovation Funding Authority (STDF)
10	Faculty of Science	Beneficial Role of Insect-based Therapy in Targeting Liver Tumors	2021	2024	Science, Technology, and Innovation Funding Authority (STDF)
11	Faculty of Science	Innovative Formulation of Rice Straw for Corrosion Control in Various Environments	2021	2023	Science, Technology, and Innovation Funding Authority (STDF)
12	Faculty of Dentistry	TLR-4/WNT Linkage as a New Immunotherapy Strategy in Oral Squamous Cell Carcinoma	2021	2023	Science, Technology, and Innovation Funding Authority (STDF)
13	Faculty of Dentistry	Potential Role of Nanoparticle-based Delivery of microRNA in Targeted Gene Therapy for Oral Squamous Cell Carcinoma	2021	2023	Science, Technology, and Innovation Funding Authority (STDF)

This table summarizes the graduate student projects across different faculties at Alexandria University, funded by the Science, Technology, and Innovation Funding Authority (STDF).

Graduate Student Projects Funded by the Science, Technology, and Innovation Funding Authority (STDF)

No.	Faculty/Faculties	Project Name	Start Year	End Year	Funding Agency
1	Faculty of Science	Colchicine and Rosiglitazone Loaded on Bacterial Outer Membrane-Based Vesicles Targeting Cytokine Storm-Associated Nanovaccines in COVID-19 and Stat3 in Non-Small Cell Lung Cancer	2023	2025	Science, Technology, and Innovation Funding Authority (STDF)
2	Faculty of Pharmacy	Investigation of Rivaroxaban, Enoxaparin, and Clopidogrel in Improving Metabolic and Structural Aspects of Non-Alcoholic Steatohepatitis in Rats Through Anticoagulant and Anti-inflammatory Mechanisms	2023	2025	Science, Technology, and Innovation Funding Authority (STDF)
3	Faculty of Dentistry	Clinical Evaluation and Antimicrobial Effect of Papain-Based Chemical Caries Removal Agents in Young Permanent Molars (A Randomized Clinical Trial)	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)
4	Medical Research Institute	Multi-functional RNA-based Nanomolecules Targeting Chronic Kidney Disease: A Novel Therapeutic Approach in an Experimental Rat Model	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)
5	Institute of Graduate Studies and Research	In-Lab Meat Production Using Stem Cells as a Sustainable, Climate-Friendly Alternative Protein Source	2023	2025	Science, Technology, and Innovation Funding Authority (STDF)
6	Faculty of Agriculture	Eco-Friendly Methods for Detecting and Combating Termite and Wood Borer Infestations in Alexandria Governorate	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)
7	Faculty of Agriculture	Prototype Development of a Bentonite-Yeast Mixture as a Feed Additive to Reduce Greenhouse Gas Emissions	2023	2025	Science, Technology, and Innovation Funding Authority (STDF)
8	Faculty of Medicine	Survey of PAH Gene Mutations in Egyptian Patients with Phenylketonuria at Alexandria University Hospital	2023	2025	Science, Technology, and Innovation Funding Authority (STDF)
9	Faculty of Medicine	Potential Regenerative Capacity of Non-Cancerous "Muse" Cells in an External Mouse Model of Ischemic Heart Injury	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)
10	Faculty of Medicine	Genetic Alterations in Cell-Free DNA of Triple-Negative Breast Cancer Patients Using Next-Generation Sequencing	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)

No.	Faculty/Faculties	Project Name	Start Year	End Year	Funding Agency
11	Faculty of Science	Production, Modification, and New Applications of Biochar Derived from Biomass Waste	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)
12	Faculty of Science	Potential Enhancing Effects of Zinc Oxide Nanoparticles and Melatonin Against Cadmium Oxide Nanoparticle-Induced Toxicity: An Integrated Biomarker Approach for Environmental Toxicity Assessment in Lablab Polystachyus	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)
13	Faculty of Science	Microbial Technology as a Tool for Bioremediation of Heavy Metals from Industrial Wastewater Using Advanced Technologies	2023	2025	Science, Technology, and Innovation Funding Authority (STDF)
14	Faculty of Science	Potential Use of Peppermint and Rosemary Extracts as Effective Beta-Lactamase Inhibitors	2023	2025	Science, Technology, and Innovation Funding Authority (STDF)
15	Faculty of Science	Epigenetic Modifications of Enhancer of Zeste Homolog 2 by Stem Cell-Derived Exosomes: Pyroptosis as a Hallmark in Hepatocellular Carcinoma	2023	2025	Science, Technology, and Innovation Funding Authority (STDF)
16	Faculty of Science	Effects of Silicon Nanoparticles on Physiological Performance and Molecular Characterization of Two Cotton Varieties Under Different Water Levels	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)
17	Faculty of Science	Studies on Human Placenta Extract as a Promising Therapy for Neurodegeneration Caused by Diabetes in Rats	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)
18	Faculty of Science	Nanocomposites of 1,2,3-Triazoles for the Treatment of Multi-Drug Resistant Bacteria	2023	2025	Science, Technology, and Innovation Funding Authority (STDF)
19	Faculty of Science	Potential Effects of Persea Americana Peel Extract on Modulating the Tryptophan Dioxygenase Pathway in Non-Alcoholic Fatty Liver Disease-Induced Mice	2023	2025	Science, Technology, and Innovation Funding Authority (STDF)
20	Faculty of Science	Use of Actinomycete Biomass as an Unconventional Feed Component in Fish Farms	2023	2025	Science, Technology, and Innovation Funding Authority (STDF)
21	Faculty of Science	Evaluation of the Therapeutic Effects of Avocado Peel Alcoholic Extract on Rat Liver Fibrosis	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)

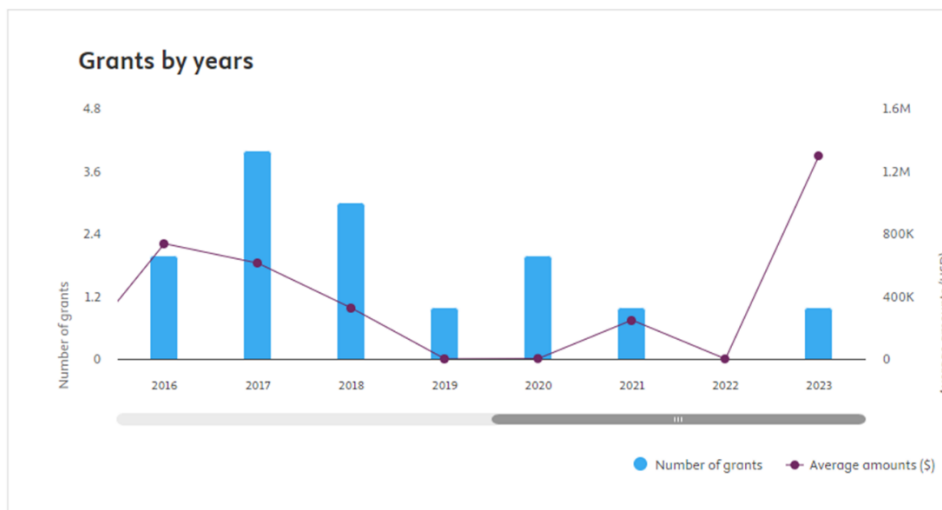
No.	Faculty/Faculties	Project Name	Start Year	End Year	Funding Agency
22	Faculty of Science	Laboratory Design of MOF/BiOX Nanocomposite for the Degradation of Water Pollutants by Enhanced Photocatalysis Supported by DFT Calculations	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)
23	Faculty of Science	Applied Coordination Chemistry of Biologically Active Chelating Agents Containing Chalcogen Atoms	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)
24	Faculty of Science	Full Preclinical Profile of Nanomolecules from Willow Plant Active Ingredients in Liver Cancer Treatment	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)
25	Faculty of Science	Effect of Citrullus Colocynthis Seeds on Lead-Induced Hepatotoxicity in Male Albino Rats	2023	2026	Science, Technology, and Innovation Funding Authority (STDF)
26	Faculty of Medicine	Characterization and Potential Cancer Therapy Applications of Marine Microbial L-asparaginase	2023	2025	Science, Technology, and Innovation Funding Authority (STDF)

This table showcases a range of cutting-edge research projects being undertaken by graduate students at Alexandria University, funded by the STDF. These projects span multiple disciplines, including science, medicine, and agriculture, and contribute to advancements in fields like biotechnology, nanotechnology, environmental science, and medical research.

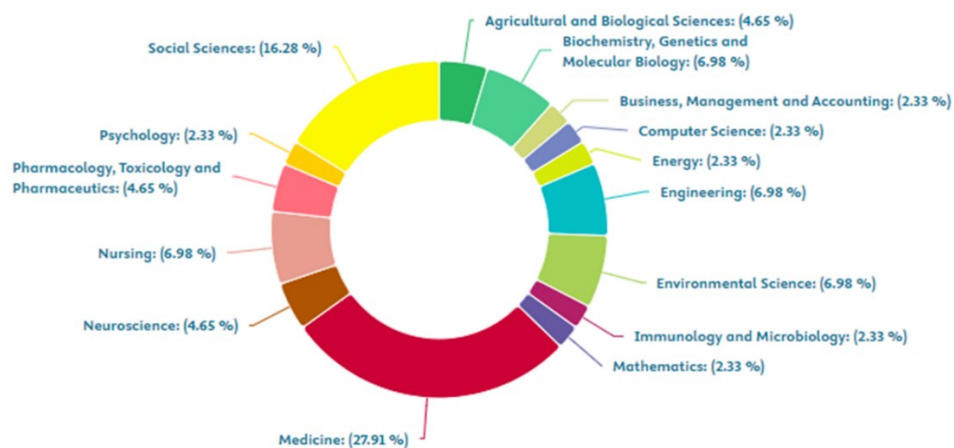
Graduate student projects funded by the Project Management Unit

No.	Faculty/Faculties	Project Name	Start Year	End Year	Funding Agency
1	Agriculture	Development of a smart irrigation system to assess and monitor the quality of green areas and maximize the use of available water resources	2021	2021	Project Management Unit
2	Agriculture	Design and implementation of a self-propelled unit for green area maintenance (mowing and aeration)	2021	2021	Project Management Unit
3	Veterinary Medicine	Developing students' skills in using regenerative medicine and tissue engineering to treat certain bone injuries in the veterinary field	2021	2021	Project Management Unit
4	Specific Education	Creating healing paintings and products inspired by Bach flowers to treat post-traumatic stress disorders following the COVID-19 pandemic, serving small projects	2021	2021	Project Management Unit
5	Tourism and Hotels	Project for developing measurement and assessment systems at the Faculty of Tourism and Hotels	2021	2023	Project Management Unit
6	Physical Education (Boys)	Project for developing measurement and assessment systems at the Faculty of Physical Education for Boys	2021	2023	Project Management Unit
7	Physical Education (Girls)	Project for developing measurement and assessment systems at Egyptian universities	2021	2023	Project Management Unit
8	Medicine	Innovation of a unit for early diagnosis and monitoring of critical heart conditions	2020	2020	Project Management Unit
9	Early Childhood Education	Enhancing practical applications of some courses through producing short educational animated films	2020	2020	Project Management Unit
10	Engineering	Desert exploration through an unmanned ground vehicle	2020	2020	Project Management Unit
11	Engineering	Manufacturing an environmentally friendly autonomous submarine	2020	2020	Project Management Unit
12	Agriculture	Design and creation of a smart, integrated electronic irrigation system powered by solar energy	2020	2020	Project Management Unit
13	Agriculture	Design and creation of an electronic unit to monitor engine performance for fault detection, diagnosis, and solutions	2020	2020	Project Management Unit
14	Agriculture	Design and creation of a solar-powered intelligent robotic arm to identify and collect ripe agricultural produce	2020	2020	Project Management Unit

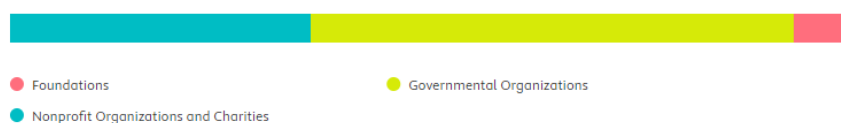
International Grants (Alexandria University, 2016-2023)



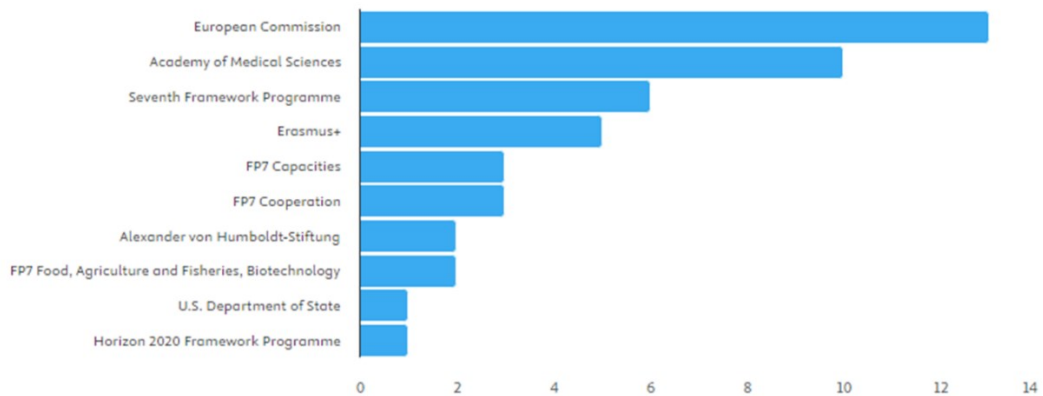
Grants by subject areas



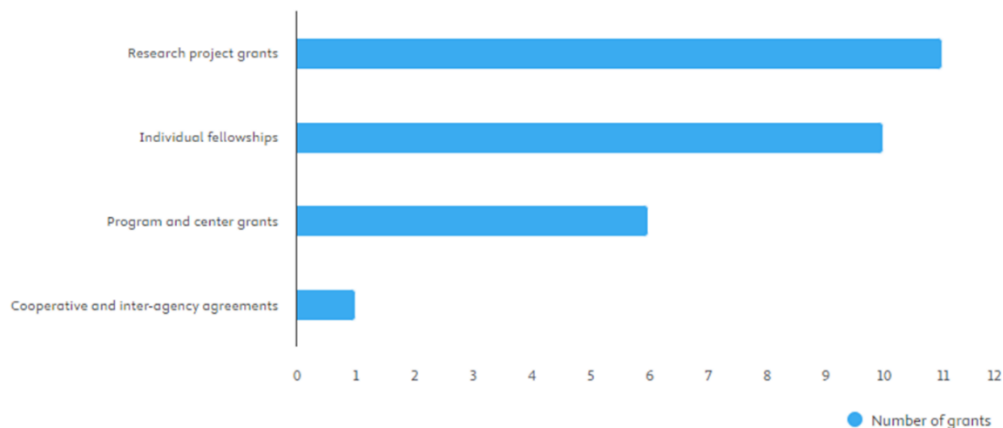
Grants by funders types



Grants by funders



Grants by funding types



AFFIL (alexandria AND university, AND egypt) AND PUBYEAR > 2021 AND PUBYEAR < 2025

10,677 document results

Select year range to analyze: 2022 to 2024 Analyze

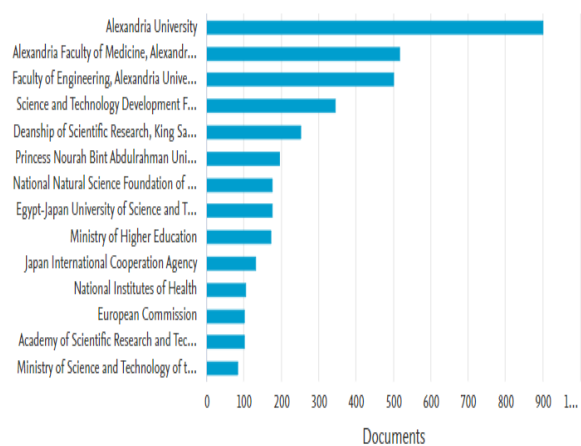
Funding sponsor

Documents

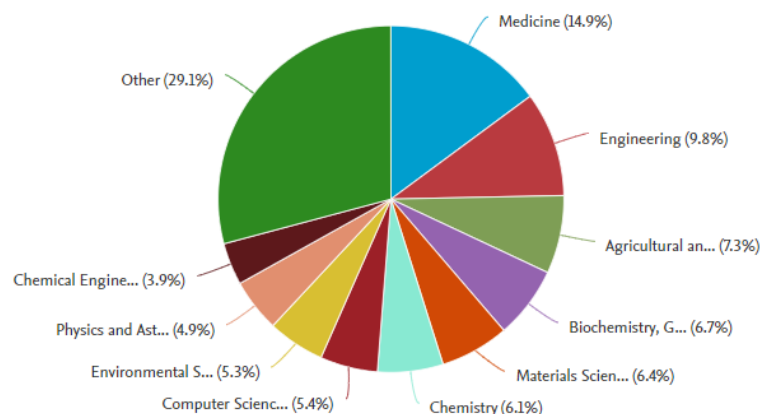
Documents by funding sponsor

Compare the document counts for up to 15 funding sponsors.

<input checked="" type="checkbox"/> National Institutes of Health	104
<input checked="" type="checkbox"/> European Commission	102
<input checked="" type="checkbox"/> Academy of Scientific Research and Technology	101
<input type="checkbox"/> King Faisal University	92
<input checked="" type="checkbox"/> Ministry of Science and Technology of the People's Republic of China	84
<input type="checkbox"/> U.S. Department of Health and Human Services	78
<input type="checkbox"/> King Khalid University	76



Documents by subject area



Scientific Journals and Periodicals

Alexandria University publishes a number of scientific journals and periodicals aimed at disseminating the research of faculty members both within and outside the college. These publications also include summaries of master's and doctoral theses, address topics of common interest, and respond to inquiries related to various fields of study. The university's publications are edited by a team of experts and specialists in this regard. The total number of journals published by the faculties of Alexandria University is 39, issued in both Arabic and English. Some journals are free of charge for authors.

<https://www.alexu.edu.eg/index.php/en/2015-12-15-08-34-58>




The screenshot shows the homepage of the Alexandria Engineering Journal (AEJ) website. The header features the Taylor & Francis Online logo and navigation links: Browse, Search, and Publish. A login/register section is also present. The main content area highlights the 'Alexandria Engineering Journal' as an open access journal. Below this, there is a section for the 'Alexandria Journal of Medicine' (AJM), described as an open access journal publishing international research in medical sciences. A search bar is provided for finding articles by keywords, authors, or DOI.



Examples of scientific journals published by Alexandria University.

Number of scholarly publications on sustainability


 Google Scholar

Articles
 About 2,400 results (0.08 sec)

Any time

Since 2023

Since 2022

Since 2019

Custom range...

2021 — 2023

Search

Sort by relevance

Sort by date

Any type

Review articles

☐ include patents

☒ include citations

☒ Create alert

[PDF] Towards Children Engagement in Urban Design Development for Sustainable Communities The case of Child's University at Alexandria University, Egypt [PDF] ekb.eg

J Heba, R Rania - ENGINEERING JOURNAL, 2023 - msaeng.journals.ekb.eg

... sustainable communities and sustainable development goals to a selected group of students enrolled in the Child University at Alexandria University... green areas as shown in Figure 12 ...

☆ Save Cite Related articles All 4 versions

[PDF] Awareness of The Role of Green Economy in Sustainable Development in Egyptian Universities" Field Study on Alexandria University" [PDF] ekb.eg

TS Ahamed - ... of Education Journal Alexandria University, 2022 - jealex.journals.ekb.eg

... 3-The curricula of Alexandria University did not sufficiently emphasize the vision of sustainability and project ... 4- Alexandria University students participate in activities to protect the ...

☆ Save Cite Related articles All 2 versions

Applying Green Practices in Hotels Sector to Ensure Sustainable Development- Case Study of The Hotels in Siwa Oasis [PDF] ekb.eg

ASalem, SAya - Alexandria Science Exchange Journal, 2021 - asejaigsae.journals.ekb.eg

... practices (environmentally friendly practices) in that sector had a direct impact on sustainable ... the green practices in Siwa hotels and their relationship to sustainable development. ...

☆ Save Cite Related articles All 8 versions

Scholarly publications on sustainability & green (Alexandria University, Egypt, 2021-2023)

Google Scholar "Alexandria University" & sustainability

Articles About 6,330 results (0.09 sec)

Any time
Since 2024
Since 2023
Since 2020
Custom range...
2021 — 2023
Search

Sort by relevance
Sort by date

Any type
Review articles
☐ include patents
☒ include citations

[PDF] Awareness of the role of the green economy in sustainable development in Egyptian universities: a field study at Alexandria University [PDF] ekb.eg
TS Ahmed - Journal of the Faculty of Education, 2022 - jealex.journals.ekb.eg
... 2- The curricula of Alexandria University did not pay enough attention to achieving effective ... of Alexandria University did not sufficiently emphasize the vision of sustainability and project ...
☆ Save Cite Cited by 1 Related articles All 2 versions

Research interest in SDGs at Alexandria University: An analytical study [PDF] ekb.eg
AG Alsadek - International Journal of Library and Information ..., 2022 - journals.ekb.eg
... and trends in sustainable development goals (SDGs) at Alexandria University, in view of ... (IDL) at the Digital Library Unit of Alexandria University. The study also related the indicators ...
☆ Save Cite Related articles All 4 versions

[PDF] Towards Children Engagement in Urban Design Development for Sustainable Communities The case of Child's University at Alexandria University, Egypt [PDF] ekb.eg
J Heba, R Rania - ENGINEERING JOURNAL, 2023 - msaeng.journals.ekb.eg
... Three trained tutors introduce the principles of sustainable communities and sustainable ... Child University at Alexandria University. The objective is to create a sustainable open space in ...
☆ Save Cite Related articles All 3 versions

Scholarly publications on sustainability (Alexandria University, Egypt, 2021-2023)

Google Scholar "Alexandria University" & egypt

Articles About 16,200 results (0.04 sec)

Any time
Since 2024
Since 2023
Since 2020
Custom range...
2021 — 2023
Search

Sort by relevance
Sort by date

Any type
Review articles
☐ include patents
☒ include citations

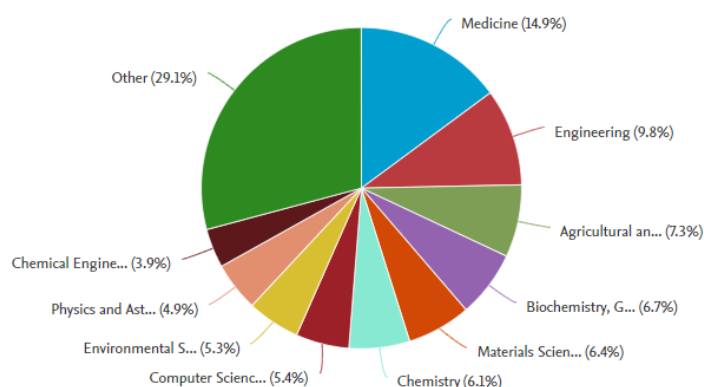
Academic Motivation, Academic Self-Efficacy and Perceived Social Support among Undergraduate Nursing Students, Alexandria University, Egypt. [PDF] ekb.eg
MM El-Sayed, MAEG Mousa... - Assiut Scientific ..., 2021 - journals.ekb.eg
... Design A descriptive correlational design was used in this study Setting The study was conducted at the Faculty of Nursing, Alexandria University Subjects A representative sample of ...
☆ Save Cite Cited by 20 Related articles All 4 versions

[PDF] Awareness of the role of the green economy in sustainable development in Egyptian universities: a field study at Alexandria University [PDF] ekb.eg
TS Ahmed - Journal of the Faculty of Education, 2022 - jealex.journals.ekb.eg
... (300 students at Alexandria University and 100 faculty members at Alexandria University). The ... 1-The curricula of Alexandria University are concerned with providing systematic activities ...
☆ Save Cite Cited by 1 Related articles All 2 versions

... of knowledge, perception, attitude, and use of performance-enhancing substances among students of Faculty of Medicine, Alexandria University, Egypt: a pilot study [PDF] springer.com
FMM Badr el Dine, MAH Attia - Egyptian Journal of Forensic Sciences, 2022 - Springer
... The ethical committee of Alexandria University approved the study protocol (the serial number is 0304323). After explaining the study's goal and nature to participants, agreeing to ...

Total Scholarly publications (Alexandria University, Egypt, 2021-2023)

Documents by subject area



Description: Example of events **scholarly publications on sustainability** in the academic year 2021-2023.

A total average per annum over the last 3 years of **6330 publications**.

Alexandria University provides distinguished scientific production, as evidenced by the continuous progress of the university's position in the international ranking over the past years, in accordance with internationally approved ranking systems.

Years	2019-2021	2020-2022	2021-2023
No of publication on green and sustainability	1460	2330	2400
No of publication on sustainability	4050	5230	6330

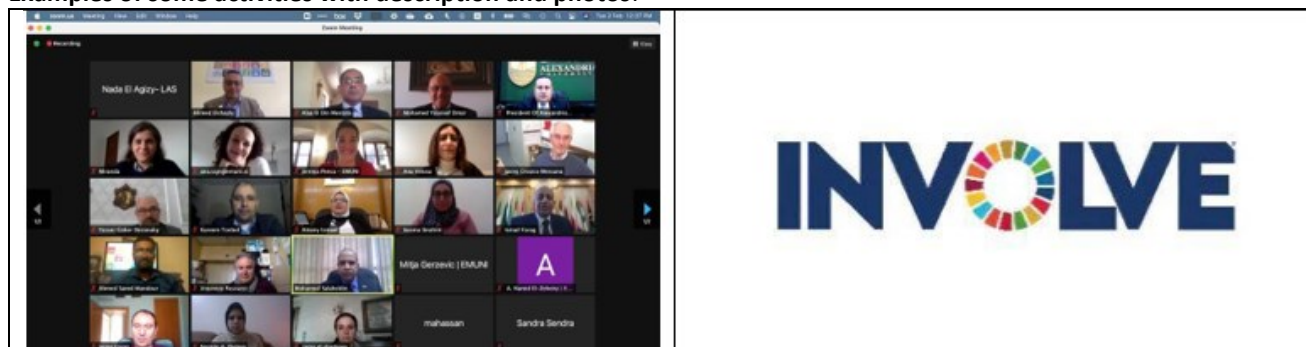
The total number of scholarly publications (2021–2023)	16,200
The total number of scholarly publications on sustainability (2021–2023)	6330
% of scholarly publications on sustainability/ total number of scholarly publications	39.07%

Number of Events Related to Sustainability



Number of events related to environment and sustainability hosted or organized by the Alexandria University in academic year 2022-2023 are more than **247 events**.

Examples of some activities with description and photos:



The opening of the activities of the project “Integrating Sustainable Development Goals into Universities for Better Management of Climate Change,” which is funded by the European Union within the Erasmus Plus program (2021-2024) with a budget of 15 million pounds, via the electronic platform, and its work continued over two days. Alexandria University is leading the project, which includes 7 other partners, from the European Union, namely the University of Aveiro in Portugal, the University of Sassari in Italy, the University of Valencia in Spain, the Euro-Mediterranean University from Slovenia, and from Egypt the Arab Academy for Science, Technology and Maritime Transport, Zewail University, and Heliopolis University. The project aims to enhance the capabilities of Egyptian universities in terms of raising awareness of sustainable development goals for university members, integrating sustainable development goals into strategic plans and university policies, and transforming universities into environmentally sustainable universities.



The First International Symposium on Sustainable Water Solutions in Alexandria, organized by the Center for Water Excellence at Alexandria University (funded by the United States Agency for International Development in Cairo, USAID, and in partnership with a coalition of Egyptian and American universities with the aim of supporting learning and research in the field of water).



USAID The American University in Cairo **Center of Excellence for Water**

Water-Energy-Food Nexus and its connectivity to SDGs
Tuesday, March 1st, 2022 at 4PM Cairo Local Time (CLT)

This webinar will focus on:

- Development of an integrated water - Energy - Food (WEP) nexus system.
- Developed Solar - agriculture greenhouse system that grows its own energy and irrigating water.
- Novel and green solution for food and water crisis in arid areas.
- Importance of WEP Nexus.
- Nexus Elements Integration and tools.
- WEP and its impact on SDGs.

Speakers

Prof. Bessie Hachad
Bessie Hachad, MBA, Ph.D. is a Professor of Environmental Studies at the University of California, Santa Cruz. He is the founding director of UCSC's Center for Integrated Water Management.

Prof. Abdulazim Nigm
A Professor of Hydrology and (Water Resources) at Zagazig University and is very interested in sustainable water resources management and sustainability studies.

Prof. Hassan Fath
A well-known MENA-ACC regional expert in Desalination and Energy Systems (DES) including Water-Energy-Food-Environment (WEFE) applications.

Register here:
<https://bit.ly/3GLnUYI>

Suggested Audience: Biogeophysical group

This webinar is organized by Washington State University.

The Center of Excellence for Water is a USAID funded project aiming at creating a Center of Excellence for Water at Alexandria University. Egypt. The project is intended to be a model for other universities in the region.

In the frame of the webinar series, the Center of Excellence for Water organized the twenty first webinar with California Santa Cruz University and Zagazig, entitled: "Water Energy Food Nexus and its connectivity to SDGs"



Seminar on "Management, Sustainability and Strategic Planning of the Center of Excellence for Water" at Faculty of Engineering. The project of the Water Excellence Center at Alexandria University is working to find solutions to the expected water problems in light of population growth and the serious challenges we are currently facing in Egypt.



Discussing ways of cooperation between Alexandria University and the Vice President of the Climate Group at the University of Cambridge in Britain and the official for international cooperation in the COP26 university network on the issue of climate change and ways to enhance academic and research relations and aspects of joint cooperation in preparation for the COP27 conference. The attendees gave a presentation on Alexandria University's projects in the field of environmental sustainability in preparation for the COP27 climate conference, and included projects on the production of green and grey hydrogen, the design and manufacture of electric vehicles, the establishment of the Alexandria University Company for Energy and Water Services, and the establishment of an electronic components manufacturing center, in addition to preparing studies on diversifying energy sources. Egypt's role as a regional energy center and the contributions of the Suez Canal to reducing carbon emissions at the international level.



Alexandria University held a symposium on "Climate Change and Green Transformation: The Vision of Alexandria University with several universities and scientific bodies to participate in the COP27 climate conference. These projects include the use of green hydrogen and green ammonia in the fertilizer industry in cooperation with the Egyptian Chemical Industries Company (Kima), the establishment of the Alexandria University Company for Energy and Water Services, the localization of the electric car industry inside Egypt through the design and manufacture of the electric bus and the electric car, the role of the Suez Canal in reducing carbon emissions on the global level, the establishment of the Alexandria University Centre for the blue-green economy, the role of Egypt as a regional centre for Energy, the production of green and grey hydrogen, the establishment of the Electronic Components Manufacturing Centre, in addition to the establishment of the Alexandria University Centre for Sustainable Development, with the aim of achieving sustainable development goals within the Alexandria University campus in order to turn it into a green university.



The first activity of the Greener Blue Economy Center at Alexandria University, a workshop held under the title "Sustainable Blue Economy Issues in the Mediterranean Basin Countries", in the Conference Hall at the Faculty of Commerce, generating electricity from water energy, mining activities in the seas and oceans, marine tourism, fishing activities, extracting raw materials from the sea, and other forms of economic activity mainly related water resources.



Faculty of Pharmacy, in cooperation with the students of the Scientific Society of Faculty of Pharmacy, organized a sports marathon for walking and cycling under the title "Running for Green" within the framework of the preparations of Faculty of Pharmacy and University of Alexandria for the Climate Change Conference COP27 which was held in Sharm el-Sheikh in November 2022.



The opening of the international conference organized by the Faculty of Agriculture, Alexandria University, under the title "Sustainable Management of Smart Animal Production Farms." Its activities continued over two days, during which a group of scientists and specialists discussed ways to reach a common vision and solutions for the development of livestock, poultry and fisheries in Egypt and draw a clear, integrated vision, to confront the challenges that hinder the advancement of livestock in Egypt.



A cooperation agreement between Alexandria University and the Egyptian Chamber of Commerce in Alexandria to establish a solar energy station at the Faculty of Engineering. Under this agreement, the Faculty of Engineering - Alexandria University operates the station with solar energy within the framework of the MAIA-TAQA and SOLE projects funded by the European Union, within the framework of the Mediterranean Basin Cross-Border Cooperation Program EU ENI CBC Med.

It is worth noting that the "SOL" project, funded by the European Union, supports the energy rehabilitation of public buildings in an effective and economical manner, and ensures the consumption of clean, low-cost energy.



Alexandria University hosted the third meeting of the Steering Committee of the Comprehensive and Sustainable Development of the Tomato Value Chain Project, as the host of the Tomato Value Chain Educational Service Center (TLSC).



Alexandria University participated in the Egyptian Public Universities Activities and Events Forum to Confront Climate Change 2022, during the period (September 22-23, 2022).



The preparatory webinar for the COP28 Climate Conference, which was organized by the International Committee for the Development of Dry Lands, the Regional Action for Climate Change Foundation in Japan, the “Nizami Ganjavi” International Centre, and the African Organization for Young Leaders, at the Conference Centre of the Faculty of Medicine. The webinar discussed many important topics, including climate change and dry lands, food security, biodiversity, energy and sustainable development, political will and human solidarity needed for change, adaptation, African youth's view of climate change, the Egyptian perspective on climate change, and funding requirements.



The Faculty of Education hosted the educational symposium on “Community Awareness of the Climate Change Issue, and its Health, Environmental and Economic Impacts”



Cooperation protocol between Alexandria University Engineering Centre and the Holding Company for Water and Wastewater, providing consulting services for Rainwater Management Integrated Strategy Project in Alexandria.



A cycling race and marathon events were launched as part of the Scientific Conference on Climate Change and Sports, organized by the Faculty of Science and the Faculty of Physical Education in Abu Qir from 27-29 October 2022.



The educational seminar organized by the university, in cooperation with the Youth Coordination of Political Parties and Politicians, under the title "Climate Action Path from Stockholm to Sharm el-Sheikh" and a panel discussion on the national dialogue. The meeting witnessed various discussions among the attendees that dealt with the economic, social and cultural challenges facing the country, which included issues of health, education, infrastructure, environment, psychological support, high prices, ethical and behavioral phenomena and how to confront them and provide unconventional solutions in light of the available resources.



The Medical Research Institute organized its 19th (and 7th international) scientific conference entitled "Landmarks in Cancer: From Genome Research to Practice in Challenging Times"



The workshop was held at the Medical Technology Center for Research and Services, which was held on the sidelines of the 8th Annual International Conference on Chemical Pathology under the title Meet the Experts of Hospitals, Clinical Laboratories and Blood Banks Applications of the Pit Falls Accreditation Standards, which was held on Saturday, February 11, 2023.



The Faculty of Science, Alexandria University, in cooperation with the Alexandria Holding Company for Drinking Water, organized an awareness seminar on water conservation methods on Sunday, March 12, 2023.



58 students from the German School of St. Charles Bormes visited the Faculty of Engineering on Sunday, May 7, 2023.



The Social Solidarity Unit at Alexandria University holds a symposium entitled "Combating Illegal Immigration"



The Faculty of Science, Alexandria University, received medical teams to provide services for the



The scientific conference on climate change and sports, which will be held from October 27 to 29,

100 Million Health Initiative, in cooperation with the Alexandria Health Affairs Directorate, on October 1-2, 2023, at the faculty building in Moharram Bek and Medina. Al-Shatby



2022, in cooperation between the Faculty of Science and the Faculty of Physical Education for Boys, Alexandria University.



The Tenth Student Conference on Research and Innovation for undergraduate and postgraduate students and schools, May 13 and 14, 2023, Faculty of Science, Alexandria University.



The 11th Student Conference for Research and Innovation for Undergraduate students and the 4th for Graduate Students was held on April 27-28, 2024 at the Faculty of Science, Alexandria University.



The Scientific Conference on Climate Change and Sports, which was held from October 27 to 29, 2022, in cooperation between the Faculty of Science and the Faculty of Physical Education for Boys, Alexandria University.



Practical training on how to use fire extinguishers to extinguish fires and the correct extinguishing methods for the college's occupational safety and health team. August 21, 2023 At the college stadium in Moharram Bey building.



Workshop held at the Medical Technology Center for Research and Services, which was held on the sidelines of the Eighth Annual International Conference on Chemical Pathology, under the title Meet the experts Hospitals clinical laboratories and blood banks accreditation standards applications pit falls Which was held on Saturday, February 11, 2023.



Course "The Little Drawing Studio" for teaching drawing to children June 2024 held by Faculty of Fine Arts.





The Faculty of Fine Arts at Alexandria University collaborated with the Art Therapy and Development Foundation to support and empower children with disabilities. They organized a workshop titled "Spring Arts," allowing these children to practice artistic performance and explore their creativity under the supervision of faculty members. The workshop began with a visit to the college museum, where the children learned about its collections from the curator, Ms. Abeer Shalaby. The children enjoyed the experience and the opportunity for artistic practice at the university.



As part of the collaboration between the Faculty of Fine Arts and Alexandria Governorate, a role has been established to participate in the judging committee for a competition organized by Alexandria Governorate among neighborhoods and the city center of Borg Al Arab to develop public squares and gardens within the governorate. This includes attending coordination meetings related to this initiative.

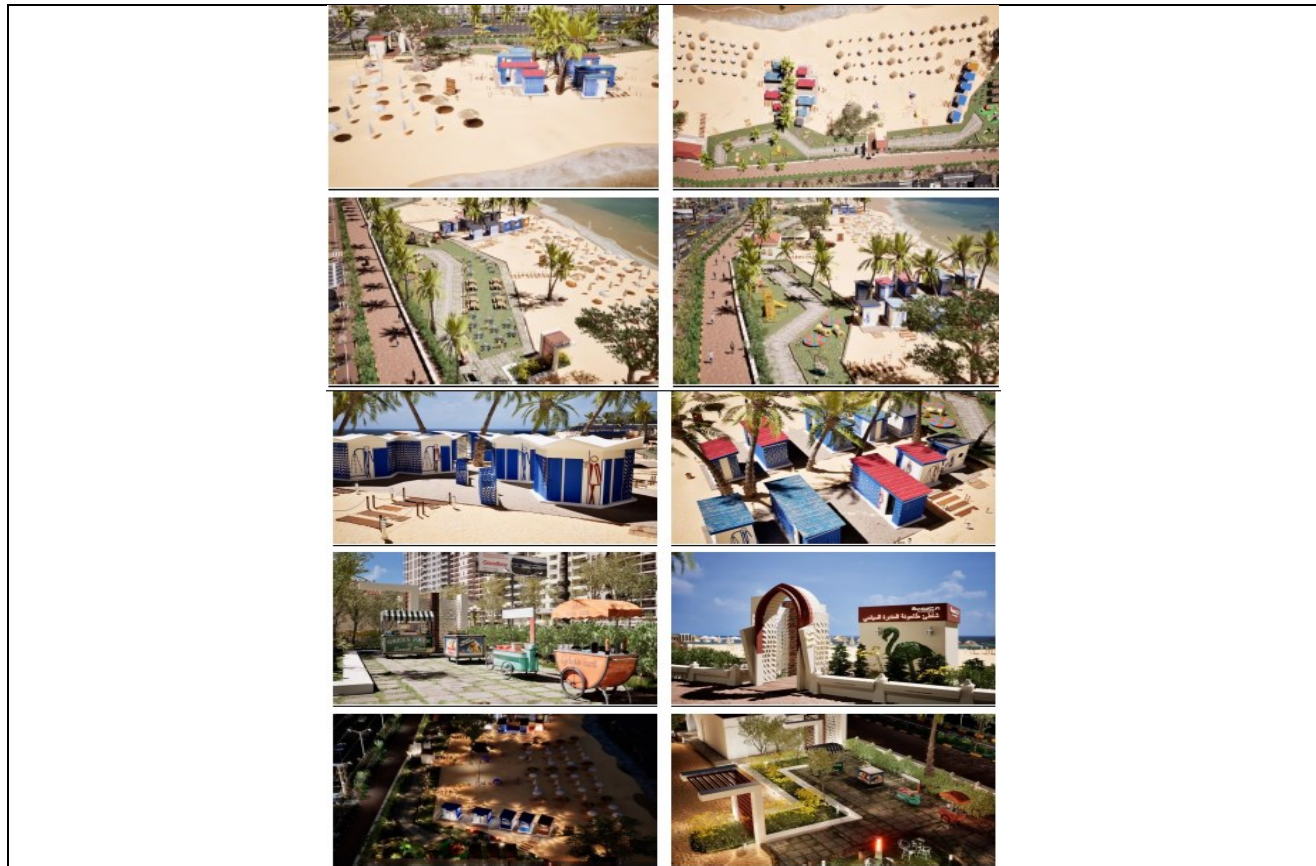


Alexandria University is organizing cultural and awareness-raising events to commemorate the 50th anniversary of the October War, starting from October 1, 2023.

1. **Art Exhibition:** An exhibition titled "50 Years of Egypt's October 1973" will run from October 2 to October 12, 2023, showcasing artworks that highlight the victories of October and Egypt's modern renaissance. It will feature contributions from 31 faculty members in various artistic mediums.
2. **Cultural Competition:** A competition for students will be held in drawing, painting, poetry, short stories, journalistic articles, musical composition, and national anthems, focusing on the heroism of the Egyptian army during the October War. Prizes will be awarded for the top three entries in each category.



Artistic and Aesthetic Collaboration for the Development and Enhancement of the Facility and the Club's Walls. The objective is to aesthetically improve the club and enhance its facilities, providing a proposal for development that meets functional needs. Accordingly, a committee has been formed, consisting of the following members, to carry out the required tasks.



The Project for the Development of the Alexandria Beaches System aims to enhance the quality of services at Alexandria's beaches through collaboration with the Faculty of Fine Arts at Alexandria University. The project focuses on designing standardized units, such as restrooms, changing rooms, and food kiosks, using weather-resistant materials. Key objectives include standardizing the external appearance of the units, identifying suitable locations based on beach characteristics and size, determining the number of units according to beach area and visitor density, ensuring materials used are appropriate for coastal conditions, and considering the project's visual identity. Top of Form Bottom of Form



The Faculty of Fine Arts is collaborating with the Eastern and Central Medical Zones' Media and Population Education Departments to implement the "100 Days of Health" initiative by the President of the Republic. This initiative focuses on women's health, early detection of chronic diseases, kidney disorders, cancers, and COVID-19 vaccinations. Events were organized within October, 2023.



Cupping Therapy and Its Applications in Sports Activity - March 2, 2024, held by faculty of sport Education for Girls



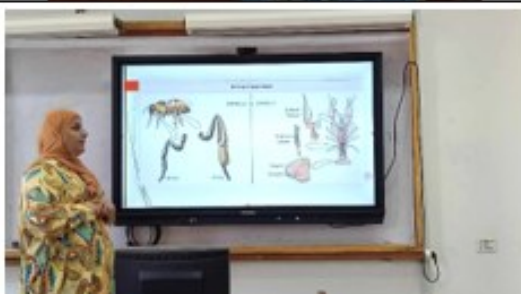
Acupuncture and Its Applications in Sports Activity - March 7, 2024, held by faculty of sport Education for Girls.



Functional Anatomy, Massage, and Cupping Therapy - May 10, 2024, held by faculty of sport Education for Girls.



Prof. Dr. Doaa Ahmed Gharib, a professor in the Biochemistry Department at the Faculty of Science, Alexandria University, was awarded second place in the category of developmental projects related to women, climate change, and sustainability at the Alexandria Governorate level, as part of the "Third Round" of the National Initiative for Smart Green Projects.





As part of the summer activity plan at the Faculty of Science, Alexandria University, in order to raise awareness among school students in Alexandria, a series of scientific lectures covering various fields was organized to prepare students from the Educational Exploratory Center under the Ministry of Education. The lectures were held weekly throughout August 2024, featuring a variety of presentations by students from the faculty academic staff members.



Students from various schools in Alexandria, as well as public and private universities across Egypt, are welcomed at the botanical garden (ALEX) of the Faculty of Science in Moharram Bek. This visits aim to introduce them to economically important, endemic, and rare plant species, raising their awareness about plant and floral diversity and the importance of conserving endangered plant species. This effort is part of the university's plan to serve the community, and achieve the 17th goal of sustainable development (partnership for goals).



Students from various schools in Alexandria, as well as public and private universities across Egypt, are welcomed at the Herbarium of the Faculty of Science at Chattby building. These visits aim to introduce them to the herbarium's role, which is essential for preserving plant specimens and aiding in research, education, and conservation efforts. This effort is part of the university's plan to serve the community and achieve the 17th goal of sustainable development (partnership for goals).



The Zoology Department at the Faculty of Science, Alexandria University, organized a field trip to the Zoological park of Alexandria. The visit aimed to highlight the practical and applied aspects of what has been studied in the theoretical lectures of the Animal Ecology course for third-year students in the department. The students actively participated by observing and commenting on the structural adaptations and feeding behaviours of the mammals residing in the zoo and the importance of these adaptations in the lives of these creatures (March 2024).



Several faculty members from Alexandria University are participating in judging school students' competitions. Judging school students' projects submitted for participation in scientific competitions organized by the Ministry of Education and international competitions such as the ISEF (International Science and Engineering Fair). The students' projects cover various topics, including environmental problems, technology, artificial intelligence, and medical sciences.

ALEXANDRIA UNIVERSITY

Under the auspices of
Prof. Dr. Abdel Aziz Kousowa
President of Alexandria University

Conference's Chairman
Prof. Dr. Hesham Saeed
Dean of Institute of Graduate Studies and Research

Conference Manager
Prof. Dr. Ibrahim Hindawy
Head of Environmental Studies Department

INDUSTRY AND ENVIRONMENT

Environmental Studies Department
2nd Conference
on
Industry & Environment
30 – 31
January 2024

Contact

igsr.environmentalstudies@alexu.edu.eg
+203-4297688 Fax: +203-4285792 P.O.: 832

Conference Hall (Prof. Dr. Salah Morsy) -
Institute of Graduate Studies and Research
(IGSR), Alexandria University - 163
Horreya Avenue El Shatby, Alexandria

Event Background

Industry and Environment Conference provides an opportunity for researchers and industrial practitioners to engage in discussions of mutual interest to develop a consensus on a problem-solving approach for utilizing the outcome of the research in dealing with issues of industrial sector.

Conference Themes

- Industry and Environmental Challenges
- Industrial Pollution Control
- Energy Management
- Carbon Footprint
- Industrial Waste Management
- Integrated Environmental Management
- Environmental Economics

Organizing Committee

IGSR Staff

- Prof. Dr. Elhayed Shalaby
- Prof. Dr. Aly Okabi
- Prof. Dr. Sahab El-Hanna
- Prof. Dr. Mahmoud Hassan
- Asst. Prof. Lotana El-Hossainy
- Dr. Aya Hamdy
- Mohamed El-Zahhar
- Etena Hossan
- Toka El-Sharky
- Rofida Abdel-Wahab
- Nardem Khalaf
- Karim Hesham
- Rahma Mohamed
- Nooran El-Mahdi
- Salwa Mohamed

Industrial Experts

- Dr. Mosaad El-Qasbi - Former president Sulpac
- Dr. Mohamed El-Masri - Sulpac
- Dr. Mohamed El-Adawi - Abu Qir Fertilizers
- Dr. Ashraf Nossair - Head of Energy Committee, Arab Businessmen Association

Registration Fees

Presenter	300 EGP
Attendance	150 EGP

50% off for IGSR students

Registration Includes

- Access to all conference sessions
- Conference kit including name tag, program booklet, and abstract book
- Coffee break and lunch
- Attendance certificate

Scientific Committee

- Prof. Dr. Samir Naar
- Prof. Dr. Mohamed El-Andarini
- Prof. Dr. Jehan Abdel-Samee
- Prof. Dr. Zakry Ghazal
- Prof. Dr. Mohamed Abdilabo
- Prof. Dr. Mostar Soliman

How to Register

REGISTRATION LINK
<https://bit.ly/3dntCz9>

Abstract submission

SUBMISSION EMAIL
igsr.environmentalstudies@alexu.edu.eg

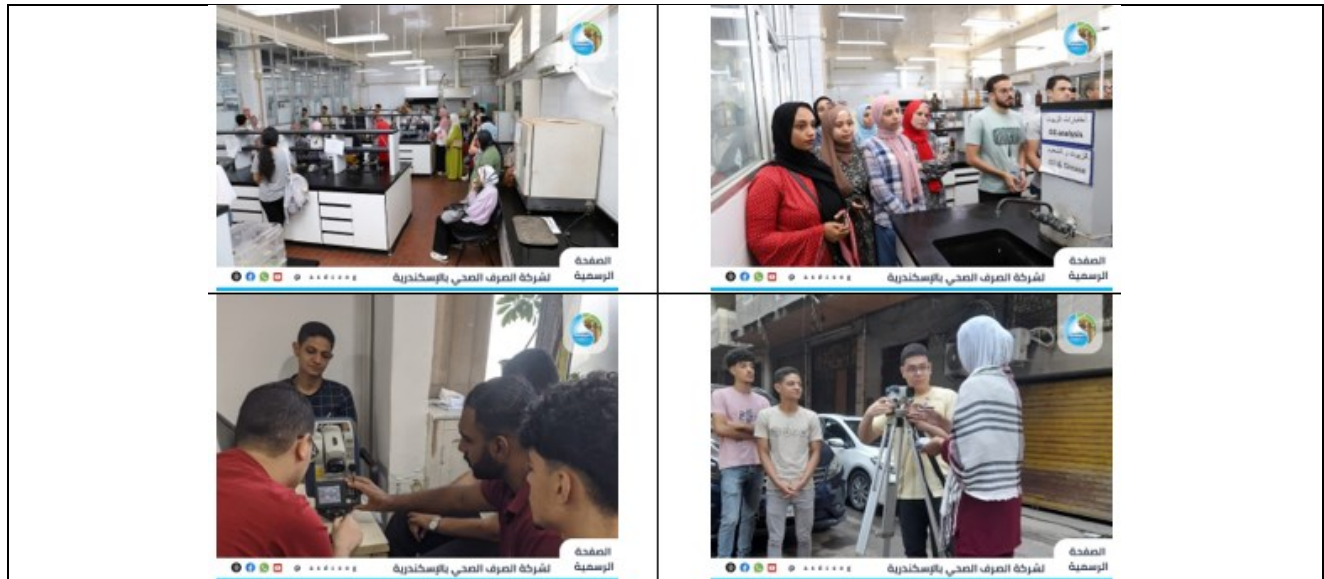
Deadlines

For registration is 15th January 2024
For abstract submission is 1st January 2024

Sponsors

ETHYDCO TITAN

Industry and Environment Conference held by Institute of Graduate Studies and Research, Alexandria University (30-31 January 2024)



Raising awareness among Alexandria University students about wastewater treatment was achieved through summer training activities conducted at Alexandria Sewerage for students from various faculties, including Science, Engineering (Civil, Mechanical, and Mechatronics), Commerce, Arts (Surveying, Mapping, and GIS), and Fine Arts (Architecture), September 2024.




The Center of Excellence for Water at Alexandria University is organizing a training program for scholarship students in collaboration with EPROM Company. This initiative aims to equip students with practical skills in water management including training courses about Water Treatment for Industrial Applications, and Wastewater Plant Operations and Troubleshooting, ensuring they are well-prepared for the business sector and aligned with labor market requirements (March, 2024).

ACS Undergrad
8h · 8

The Student Communities awards for the 2023-2024 academic year have been announced! Congratulate all of the Outstanding, Commendable, Honorable Mention, and Green Chemistry winners!

ACS Green Chemistry Institute (ACS GCI)

Who received awards for the 2023-2024 academic year?



Swipe to find out >>>

Green Chemistry Winners

- Alexandria University
- Augusta University
- Bombay College of Pharmacy
- Cameron University
- Federal University Wukari, Taraba State
- Florida International University-Biscayne Bay Campus
- Georgia Gwinnett College
- Gordon College
- Inter American University of Puerto Rico Ponce Campus
- Norwich University
- Saint Louis University
- Salt Lake Community College
- South Dakota School of Mines and Technology
- Tennessee Technological University
- The University of Utah
- University of California-Los Angeles
- University of California-San Diego
- University of Florida
- University of Pittsburgh
- University of Puerto Rico-Rio Piedras Campus
- University of Tennessee at Martin
- University of Texas at Tyler
- Valdosta State University
- Youngstown State University

Outstanding Winners

- Alexandria University
- American University in Sharjah
- Augusta University
- Belhaven University
- California State University-Stanislaus
- Chandigarh University
- City University of New York
- Herbert H. Lehman College
- Colorado State University
- Eastern Oregon University
- El Paso Community College
- Federal University of Ceará
- Federal University of Minas Gerais
- Florida International University-Biscayne Bay Campus
- Francis Marion University
- Georgia College & State University
- Georgia Gwinnett College
- Heidelberg University
- Idaho State University
- Institute of Space Technology
- Inter American University of Puerto Rico Ponce Campus
- Lifford University
- Mellen University of Engineering & Technology
- Midland College
- Midwestern State University
- Mississippi College
- Monash University Malaysia
- Nazarbayev University
- North Central College
- Northeastern University
- Nova Southeastern University
- Quachita Baptist University
- Qatar University
- Quid-E-Awam University
- Queens University - Kingston
- Saint Francis University
- Salt Lake Community College
- Shahjalal University of Science and Technology
- Sokoto State University
- South Dakota School of Mines and Technology
- Southeastern Oklahoma State University
- Southwest Minnesota State University
- St. Mary's College of Maryland
- Swansea University
- Tarrant County College - Northeast Technology

The ACS Green Chemistry Institute (ACS GCI) has announced the Student Communities awards for the 2023-2024 academic year, recognizing Alexandria University as the top winner in the Outstanding, Commendable, Honorable Mention, and Green Chemistry categories.

Conferences and Symposia (2023-2024) Alexandria University, Egypt

NO	College/organizer	Event Name	Place	Duration	
				From	To
1	Faculty of Arts	Symposium on the maritime cultural heritage of the Red Sea	Faculty	17/01/2023	18/01/2023
2		Symposium on "National Discourse in Light of International Challenges and Changes"	Faculty	20/02/2023	
3		Seminar: "The Impact of the Russian and Ukrainian War on National Security"	Faculty	27/02/2023	
4		"Environment and Society: The Role of Women between Reality and Aspirations" Symposium	Faculty	06/03/2023	
5		Seminar on "Optimal Use of Social Networks"	Faculty	22/02/2023	
6		Workshop "In cooperation with the Educational Innovations Unit"	Faculty	28/02/2023	

7		Free books gallery	Faculty	19/02/2023	21/02/2023
8		Symposium on "Climate Change and its Impact on Egypt"	Faculty	20/02/2023	
9		Clothes exhibition for college students	Faculty	13/02/2023	16/02/2023
10		Symposium on "The Role of Innovation in Developing Various Aspects of Life"	Faculty	01/03/2023	
11		Workshop on "3D imaging and its digital applications in the field of archaeology"	Faculty	18/03/2023	22/03/2023
12		"Drama and Society" Symposium	Faculty	20/03/2023	
13		Symposium on "Egyptian Women's Issues between Reality and Aspirations"	Capacity Development Centre	06/03/2023	
14		Campaign (It will not be lost)	Faculty	11/03/2023	
15		"Positive Psychology and Arab Research" Symposium	Faculty	08/03/2023	
16		Charity exhibition for Kayan Association	Faculty	14/03/2023	16/03/2023
17		Conference on "Using Media in Curricula in Egyptian Universities"	Faculty	26/02/2023	
18		Symposium on "The Role of Cultural Platforms in Developing Youth Awareness"	Capacity Development Centre	10/05/2023	
19		Seminar: "How to Apply for Grants"	Faculty	29/04/2023	
20		Scientific Seminar "The Mediterranean Environment: Opportunities and Challenges"	Faculty	10/06/2023	
21		Conference "Alexandrian Heritage and its Connection to What Before and After"	Faculty	09/05/2023	
22		Theater Department Festival for specialized departments and institutes	Alexandria Library	10/07/2023	20/07/2023
23		A cultural salon for Alexandria University and a cultural salon for the Faculty of Arts	Faculty	03/05/2023	
24		Workshop on leather crafting	Faculty	04-02-2024	20-02-2024

25		Free book exhibition	Faculty	01-02-2024	01-03-2024
26		Two-day introductory workshop on documentary films	Faculty	03-03-2024	04-03-2024
27		Lecture titled "Using AI applications in libraries and information"	Faculty	18-02-2024	
28		Charity market	Faculty	04-03-2024	06-03-2024
29		Festival titled "The Theater Department Festival for Specialized Departments and Institutes"	Bibliotheca Alexandrina	01-03-2024	07-03-2024
30		Workshop titled "How to use the electronic paper edition of the Arabic translation of MARC 21"	Faculty	13-03-2024	
31		Lecture titled "The East/Western encounter since the Middle Ages through"	Faculty	04-03-2024	
32		Cultural salon on the occasion of World Short Story Day	Faculty	25-02-2024	
33		Cultural Ramadan night at the Library Department	Faculty	31-03-2024	
34		Judging meeting for the best research competition for Library Department students	Faculty	05-03-2024	
35		Open meeting with students with special needs in the department	Faculty	14-04-2024	
36		Roundtable titled "Translation in the digital age: Challenges and prospects"	Faculty	21-04-2024	
37		Lecture titled "Regulations for the work of technical bodies assisting various judicial authorities"	Faculty	02-03-2024	
38		Free book exhibition	Faculty	01-02-2024	01-03-2024
39		Seminar titled "The role of youth in facing contemporary challenges"	Faculty	27-03-2024	
40		Seminar titled "Egypt's efforts to combat illegal immigration and human trafficking and raise awareness of its dangers"	Faculty	07-05-2024	

41		Introductory workshop on documentary films	Faculty	03-03-2024	04-03-2024
42		Rescheduling of the leather crafting workshop	Faculty	04-02-2024	20-02-2024
43		One-day workshop titled "For men only - Join us to protect her"	Faculty	21-03-2024	
44		One-day workshop for university city girls and workers titled "Yourself is a trust - Defend it"	University Dormitories	19-03-2024	
45		Workshop titled "Program and course description"	Faculty	06-04-2024	
46		Workshop titled "How to use the electronic and paper edition of the Arabic translation of MARC 21"	Faculty	13-03-2024	
47		Seminar "Philosophy as a way of life"	Faculty	04-05-2024	
48		Seminar "The role of intellectual property in preserving and developing intangible cultural heritage"	Faculty	29-04-2024	
49		Introductory seminar on grants and opportunities offered by the Fulbright Commission	Online	15-05-2024	
50		the agricultural workshop to learn about sustainable solutions to avoid overconsumption of natural materials	Faculty	03-07-2024	
51		Seminar titled "The current state of philosophical studies in the Arab and Western worlds"	Faculty	20-08-2024	
52		Lecture titled "Egyptian-Chinese historical relations"	Faculty	01-08-2024	
53		Seminar titled "Concept of occupational safety and health and its objectives"	Faculty	08-09-2024	
54		Seminar titled "The current state of philosophical studies in the Arab and Western worlds"	Faculty	20-08-2024	
55	Faculty of education	Charitable clothing exhibition, We Are Al Khair Foundation	Faculty	25/02/2023	05/03/2023
56		German School Conference	Faculty	25/02/2023	

57		Emerging Women Writers Conference Form The Margins	Faculty	10/03/2023	11/03/2023
58		Book Fair	Faculty		
59		Conference "Digitizing the Curriculum and Competencies of the Future"	Faculty	02/09/2023	
60		Celebration of "Martyr's Day"	Faculty	10-03-2024	
61		Alexandria University's First Book Fair	Faculty	21-02-2042	30-03-2024
62		Subsidized Fair for Students, Employees, and Workers at the Humanities Complex	Faculty	20-02-2024	30-03-2024
63		"Welcome Ramadan" and Siwa Products Fair	Faculty	21-02-2024	30-03-2024
64		Secondary Conference of the German School	Faculty	26-02-2024	
65		Participatory Workshop with Alexandria Governorate	Faculty	11-01-2024	
66		Education Policies Forum titled "Issues in Educational Policy"	Faculty	20-04-2024	
67		Seminar on "Ways to Reduce Illegal Immigration"	Faculty	29-04-2024	
68		Conference titled "Innovation Management and Entrepreneurship in Educational Institutions: Future Visions"	Faculty	27-07-2024	
69	Faculty of education quality	National Dialogue Symposium	Faculty	30/03/2023	
70		The first meeting for fine art	Faculty	26/09/2023	
71		International Conference titled "Innovation in Quality Education and Artificial Intelligence Challenges (Visions and Proposals)"	Faculty of Economics	14-02-2024	15-02-2024
72		Kindergarten Level Two Graduation Ceremony	Faculty	03-05-2024	
73		Charity Market of the Association	Faculty	05-03-2024	09-03-2024
74		Art Therapy Workshop	Faculty	16-02-2024	
75	Faculty of Agriculture	Symposium on "Home Economics and Climate Change"	Faculty	08/03/2023	
76		Exhibition of agricultural and industrial products	Faculty	22/02/2023	23/02/2023

77		Workshop on "Estimation of Sugars in Cotton"	Faculty	12/03/2023	13/03/2023
78		A permanent exhibition throughout the month of Ramadan	Faculty	20/03/2023	20/04/2023
79		Symposium on "The Virtues of the Holy Month of Ramadan and Commemorating the October Victories"	Faculty	12/04/2023	
80		"Awareness Leaders Ambassadors" workshop	Faculty	06/05/2023	
81		Workshop on the university Agrochemical	Alexandria Library	30/04/2023	
82		"Twelfth Employment" Forum	Faculty	02/05/2023	
83		Training course for agricultural engineers working in the pesticide trade	Faculty	28/01/2023	01/02/2023
84		"Antimicrobial Project" Workshop	Faculty	28/05/2023	
85		Training course "Developing the Romanian cheese industry to compete in global markets"	Faculty	21/05/2023	25/05/2023
86		Workshop on "Chemical and microbiological analysis of dairy products according to ISO methods."	Faculty	20/01/2023	
87		The first forum for entrepreneurship and innovations	Faculty	21/06/2023	
88		Americana Company seminar to introduce the company's activities	Faculty	20/06/2023	
89		Workshop on "Nanotechnology to Support Sustainable Development of Agricultural Production"	Faculty	27/07/2023	
90		Summer Science Club for Students	Faculty	15/07/2023	15/08/2023
91		Training courses to raise the efficiency and skills of undergraduate students	Faculty	15/07/2023	15/08/2023
92		"Food Safety and Quality" Workshop	Faculty	09/07/2023	11/07/2023
93		Workshop on "Basic Requirements for the Food Safety System"	Faculty	16/07/2023	20/07/2023
94		Training courses to raise the efficiency and skills of undergraduate students	Faculty	15/07/2023	

95	Bioinformatics workshop, first level	Faculty	01/08/2023	
96	Molecular biology techniques workshop - basics	Faculty	06/08/2023	
97	Molecular biology techniques workshop - advanced level	Faculty	20/08/2023	
98	The first scientific forum for insect students in the Arab Republic of Egypt	Faculty	10/10/2023	
99	The first Genetics and Biotechnology Youth Forum	Faculty	29/08/2023	
100	Integration workshop between the university and the animal production industry	Faculty	24/09/2023	
101	Workshop on "Arduino Basics and Its Applications."	Faculty	31/08/2023	
102	Workshop on "Estimation of Sugars in Cotton"	Faculty	18/09/2023	
103	Symposium on the impact of climate change on modern trends used in the management of plant diseases	Faculty	13/09/2023	
104	Symposium on "Home Economics and Climate Change"	Faculty	08/03/2023	
105	Exhibition of agricultural and industrial products	Faculty	22/02/2023	23/02/2023
106	Workshop on "Estimation of Sugars in Cotton"	Faculty	12/03/2023	14/03/2023
107	Exhibition throughout the month of Ramadan	Faculty	20/3/2023	20/04/2023
108	Annual Celebration for the Distribution of Dream Company Awards to Encourage Scientific Research in Egypt for 2024	Faculty	22-04-2024	
109	Awareness Program for College Employees to Spread Insurance Awareness and Financial Planning among Employees and Workers	Faculty	11-02-2024	25-02-2024
110	Online Technology Awareness Ambassadors Program	Faculty	25-04-2024	26-04-2024
111	13th Job Fair	Faculty	17-04-2024	
112	Seminar titled "Nanotechnology and Its	Faculty	22-02-2024	

		Applications in Home Economics”			
113		Seminar titled “Organic Farming and the Future of Egypt to Increase Agricultural Yields”	Faculty	04-03-2024	
114		Seminar titled “Future Vision for Post-Graduation and Labor Market Needs in the Agricultural Field”	Faculty	24-04-2024	
115		Workshop titled “Job Search Club in Alexandria Governorate”	Faculty	18-02-2024	28-02-2024
116		Workshop titled “Integration between the University and Animal Production Industry”	Faculty	16-05-2024	
117		Several Workshops titled “High-Level Administrative and Executive Leadership”	Faculty	17-02-2024	23-04-2024
118		Workshop titled “High-Level Administrative and Executive Leadership”	Faculty	11-05-2024	25-06-2024
119		Workshop titled “Bed Bugs Cause Concern”	Faculty	24-04-2024	
120		Workshop titled “Job Search Club in Alexandria Governorate”	Faculty	18-02-2024	28-02-2024
121		Forum to Introduce the Egyptian Cheese and Dairy Products Festival	Faculty	18-07-2024	
122		Holding (5) Training Courses for the Francophone Agency Award Project Funded by the University Agency titled “The Classroom Turns into the Labor Market: Developing Agricultural Entrepreneurship Skills”	Faculty	11-08-2024	08-10-2024
123		Holding the “Second Youth Genetics and Biotechnology Forum”	Faculty	28-08-2024	
124	Faculty of Business	Workshop on “Sustainable Blue Economy Issues in the Mediterranean Basin Countries”	Faculty	03/01/2023	
125		Celebration "Happy Children's Day"	Faculty	17/03/2023	
126		College of Business Charity Exhibition	Faculty	04/03/2023	31/03/2023
127		International Conference “The Impact of Global	Faculty	20/07/2023	21/07/2023

		Changes on Business Sustainability"			
128		CMA certification training program	Faculty	16/05/2023	
129		"Entrepreneurship" seminar	Faculty	14/05/2023	
130		Seminar" Teaching Applications in Recreational Sports Activities in Field Training Institutions"	Faculty	26/04/2022	
131		Holding the College Charity Fair	Faculty	10-02-2024	10-03-2024
132		Organizing an Introductory Seminar titled "What After Graduation? Be Distinguished"	Faculty	01-02-2024	
133		Holding an Educational Seminar titled "Management by Values and the Success of the Industrial System"	Faculty	25-02-2024	
134		Holding an Educational Seminar titled "How to Write a CV and Pass Personal Interviews in the Banking Field"	Faculty	07-03-2024	
135		Holding a Grand Olympiad Celebration to Promote Entrepreneurship at the University	Faculty	11-07-2024	
136		21st International Conference titled "Global Challenges and Achieving Business Sustainability"	Faculty	13-07-2024	
137		Workshop titled "Proposals for Developing the Real Estate Tax Law"	Faculty	05-10-2024	
138	College of Physical Education for Boys	Scientific Forum "Doping in the Sports Field"	Faculty	09/03/2023	
139		Symposium on "Violence among youth and its impact on society"	Faculty	02/04/2023	
140		A sports day for the employees of the Montazah Second District	Faculty	11/08/2023	
141		Seminars for the fourth group during the compulsory camp	Faculty	08/07/2023	22/03/2023
142		Seminar titled "The Impact of Fasting on Moral Values and Social Responsibility"	Faculty	21-03-2024	
143		Recreational Sports Day and Iftar for 200 Children	Faculty	04-04-2024	

		and Their Families with Special Needs			
144		Seminar on "Hepatitis Viruses and Liver Diseases"	Faculty	28-02-2024	
145		Seminar on "Supporting Youth-Friendly Health Services"	Faculty	05-03-2024	
146		Seminar on "Addiction and Drugs: A Warning Bell"	Faculty	19-03-2024	
147		Seminar on "Psychological Changes in Adolescents"	Faculty	26-03-2024	
148	College of Physical Education for girls	Symposium on "Methods of Standardization of Specific Means in Training"	Faculty	15/03/2023	
149		Symposium on "Recreation and Psychological Stress"	Faculty	07/03/2023	
150		Symposium on "Digital Transformation Strategy in Physical Education"	Faculty	09/03/2023	
151		"Social Media Addiction" Seminar	Faculty	12/03/2023	
152		Environmental program "Speak Green"	Faculty	20/03/2023	
153		Symposium on "Principles of Psychological Dealing with the Gifted"	Faculty	14/03/2023	
154		"Let's Live Without Diseases" Symposium	Faculty	03/05/2023	
155		Symposium on "Spine Injuries Diagnosis and Treatment Methods"	Faculty	29/04/2023	
156		Symposium on "Early Marriage and the Population Issue"	Faculty	30/04/2023	
157		Seminar "National Dialogue Forum under the slogan What Youth Think"	Faculty	23/05/2023	
158		College employment forum	Engineers Syndicate	20/05/2023	
159		Symposium on "Naval Forces Championships between the War of Attrition and the October War"	Faculty	18/05/2023	
160		Charity Fair for the Blind to Showcase Their Products to Students and Employees	Faculty	25-02-2024	
161		Badminton Festival	Faculty	26-01-2024	
162		Awareness Seminar titled "Practical Applications for	Faculty	21-02-2024	

		Recovery After Training and Competitive Sessions in Sports"			
163		Awareness Seminar titled "Adolescence"	Faculty	04-03-2024	
164		Awareness Seminar titled "Positive Parenting"	Faculty	13-03-2024	
165		Awareness Seminar titled "Proper Nutrition and First Aid"	Faculty	26-02-2024	
166		Awareness Seminar titled "Modern Technological Techniques in Education and Their Importance in Sports"	Faculty	23-04-2024	
167		Awareness Seminar titled "The Role of Kinetic Education in Developing Skills for People with Disabilities"	Faculty	23-03-2024	
168		Awareness Seminar titled "Statistics and Its Applications in Sports"	Faculty	20-04-2024	
169		Awareness Seminar titled "Employing Modern Technologies in Sports Sciences"	Faculty	24-04-2024	
170	Faculty of Science	High Energy Physics Simulation Course	Faculty	04/02/2023	07/02/2023
171		Charity exhibition	Faculty	04/03/2023	06/03/2023
172		An awareness seminar and an exhibition to introduce how to rationalize water	Faculty	12/03/2023	
173		Teaching Excellence in Physics Education workshop	Faculty	19/03/2023	
174		Neuroinflammatory Mechanisms Underlying	Faculty	08/03/2023	
175		Orphan's Day celebration	Faculty	05/05/2023	
176		Course "Safety requirements for working at heights and safety in using scaffolds"	Faculty	20/05/2023	
177		world Quantum Day 2023 - Egypt	Online	14/04/2023	
178		Celebrating the Children's Festival "Orphan's Day"	Faculty	05/05/2023	
179		Lecture: "Roadmap for a better future"	Faculty	06/05/2023	
180		The 10th Student Research and Innovation Conference and the 3rd Postgraduate Conference	Faculty	13/05/2023	14/05/2023

181		Training course "First Aid"	Faculty	27/07/2023	
182		Mathematics workshop for postgraduate students	Faculty	06-02-2024	08-02-2024
183		The 11th employment forum	Faculty	10-02-2024	
184		Lecture "How Can Fresh Graduates Be Candidates for Oil and Gas"	Faculty	16-03-2024	
185		The 11th student conference on research and innovations and the 4th postgraduate conference	Faculty	27-04-2024	28-04-2024
186		Workshop on the basics of occupational safety and health to provide a safe working environment	Faculty	30-04-2024	
187		Lecture "How Graduates Prepare Themselves for a Safety Career"	Faculty	06-04-2024	
188		Organizing occupational safety and health activities for the academic year 2023/2024	Faculty	08-07-2024	29-07-2024
189		Organizing a series of special activities and workshops by the American Chemical Society - Egypt (Egyptian Chapter)	Faculty	24-07-2024	07-08-2024
190		Introduction to Computer Basics	Faculty	Jul-23	
191		German Course	Faculty	Jul-24	
192		"ICDL"	Faculty	Aug-23	
193		"Computer Applications"	Faculty	Sep-23	
194		"ICDL"	Faculty	Oct-23	
195		German Course	Faculty	Nov-23	
196		"Computer Applications"	Faculty	Dec-23	
197		"ICDL"	Faculty	Dec-24	
198		"Teacher Preparation"	Faculty	Jan-24	
199		Introduction to Computer Basics	Faculty	Feb-24	
200		"ICDL"	Faculty	Feb-25	
201		Introduction to Computer Basics	Faculty	Mar-24	
202		"ICDL"	Faculty	Mar-25	

203		Introduction to Computer Basics	Faculty	Mar-26	
204		"Computer Applications"	Faculty	Apr-24	
205		German Course	Faculty	May-24	
206		"Computer Applications"	Faculty	May-25	
207		German Course	Faculty	Jun-24	
208		Introduction to Computer Basics	Faculty	Jun-25	
209		"ICDL"	Faculty	07-Sep-23	
210		Unit of Electron Microscope and Scientific Research Service	Faculty	31-Oct-23	
211		Modern Methods for Identifying Chemical Compounds Using Available Devices in the Electron Microscope Unit	Faculty	January 30-31, 2024	
212		Basic Aspects of the Cosmetics Industry	Faculty	February 6-7, 2024	
213		Skin Care Products and Perfume Industry	Faculty	February 20-22, 2024	
214		Structure and Uses of Transmission and Scanning Electron Microscopes in the Ultra-Structure Study of Dental and Oral Para-Dental Tissues	Faculty	09-Jul-23	
215		Special Units at the Faculty of Science, Alexandria University	Faculty	September 9-27, 2023	
216		Research Intelligence	Faculty	November 11-19, 2023	
217		Marine Pollution	Faculty	02-Dec-23	
218		Abu Qir Fertilizers Company: Objectives and Opportunities	Faculty	16-Dec-23	
219		Science, Technology, and Innovation Map in Egypt	Faculty	23-Dec-23	
220		How Can Fresh Graduates be Candidates for the Oil and Gas Industry	Faculty	16-Mar-24	
221		How Can Fresh Graduates be Candidates for the Oil and Gas Industry (Part 2)	Faculty	06-Apr-24	
222		How Graduates Prepare Themselves for a Safety Career	Faculty	30-Apr-24	
223		Dealing with the Exam Paper in Exam Committees and Important Tips to Avoid Mistakes	Faculty	01-May-24	

224		How to Use Fire Extinguishers in Firefighting	Faculty	07-May-24	
225		Occupational Safety and Health and Environmental Protection	Faculty	09-May-24	
226		How to Safely Evacuate in Emergencies	Faculty	22-May-24	
227		Guidance Tips for Observers on Exam Rules in Light of the Requirements of the Electronic Correction System	Faculty	06-Apr-24	
228		How Can Fresh Graduates be Candidates for the Oil and Gas Industry	Faculty	From September 17, 2023 to September 28, 2023	
229		Training Members of the Committee at the Labor Cultural Institution Affiliated with the Ministry of Manpower	Faculty	30-Apr-24	
230		Using Types of Fire Extinguishers Available at the College (for Laboratory Technicians, Storekeepers, and Auxiliary Service Workers)	Faculty	09-May-24	
231		How to Safely Evacuate in Emergencies for Firefighting and Evacuation Teams	Faculty	Periodically	
232		Five Members of the Occupational Safety and Health Committee Trained on Firefighting	Faculty	23-Apr-24	
233		Lecture on Mental Health	Faculty	24-Apr-24	
234		Lecture on Crisis Management and Problem Solving	Faculty	31-Jul-23	
235		Lecture on Water, Human Health, and Sustainability	Faculty	07-Aug-23	
236		Lecture on Occupational Safety and Health Legislation	Faculty	14-Aug-23	
237		Securing the Work Environment from Fires and Electrical Hazards	Faculty	31-Aug-23	
238		Occupational Safety and Health Requirements and Emergency Plan	Faculty	27-Jul-23	
239		First Aid	Faculty	31-Jul-23	

240		Water, Human Health, and Sustainability	Faculty	21-Aug-23	
241		How to Use Different Types of Fire Extinguishers	Faculty	01-Jul-24	
242		How to Apply Occupational Safety and Health Requirements to Avoid Work Hazards in the Department of Mathematics and Computer Science at the College	Faculty	02-Jul-24	
243		How to Apply Occupational Safety and Health Requirements to Avoid Work Hazards in the Department of Environmental Sciences at the College	Faculty	03-Jul-24	
244		How to Apply Occupational Safety and Health Requirements to Avoid Work Hazards in the Department of Physics at the College	Faculty	04-Jul-24	
245		How to Apply Occupational Safety and Health Requirements to Avoid Work Hazards in the Department of Geology at the College	Faculty	05-Jul-24	
246		How to Apply Occupational Safety and Health Requirements to Avoid Work Hazards in the Department of Botany and Microbiology at the College	Faculty	06-Jul-24	
247		How to Apply Occupational Safety and Health Requirements to Avoid Work Hazards in the Department of Zoology at the College	Faculty	07-Jul-24	
248		How to Apply Occupational Safety and Health Requirements to Avoid Work Hazards in the Department of Biochemistry at the College	Faculty	08-Jul-24	
249		How to Apply Occupational Safety and Health Requirements to Avoid Work Hazards in the Department of Marine Sciences at the College	Faculty	09-Jul-24	

250		How to Apply Occupational Safety and Health Requirements to Avoid Work Hazards in the Department of Chemistry at the College	Faculty	10-Jul-24	
251		How to Apply Occupational Safety and Health Requirements to Avoid Work Hazards in the Occupational Safety and Health Unit at the College	Faculty	10-Feb-24	
252		Eleventh Employment Forum	Faculty	April 27-28, 2024	
253		Eleventh Student Conference for Undergraduate Research and Innovations and Fourth Graduate Studies Conference	Faculty	20-May-24	
254		Orphan Day Celebration titled "Children's Carnival"	Faculty	25-Nov-23	
255		Introduction to Artificial Intelligence and Its Uses	Faculty	26-Nov-23	
256		Steps for Preparing Experimental Models for Scientific Projects	Faculty	27-Nov-23	
257		Steps for Proper Scientific Writing	Faculty	28-Nov-23	
258		Poster Design and Presentation Skills	Faculty	01-Aug-24	
259		Scientific Research and Rules of Scientific Writing	Faculty	02-Aug-24	
260		Preparation and Development of Experimental Models for Research Projects	Faculty	08-Aug-24	
261		Human and Environment	Faculty	09-Aug-24	
262		Biodiversity and Animal Classification	Faculty	10-Aug-24	
263	Faculty of Tourism and Hotels	Charity market	Faculty	14/03/2023	16/03/2023
264		A training program to spread awareness of sustainable development concepts	Faculty	12/01/2023	
265		Forum "Coptic Islamic Heritage, the Future of Industry in Egypt"	Faculty	27/04/2023	
266		Symposium on "Climate Changes and Water Resources in Egypt"	Faculty	14/03/2022	
267		Symposium "Mother's Day"	Faculty	21/03/2022	
268		Seminar "Establishing Question Banks"	Faculty	28/03/2022	

269		Symposium on" Jojoba as a Model for Confronting Desertification, Climate Change and Sustainable Development"	Faculty	04/04/2022	
270		Symposium" Rumors and their danger to society, awareness and trend culture"	Faculty	11/04/2022	
271		Seminar on" Exam Vocabulary and Making a Table of Specifications"	Faculty	18/04/2022	
272		annual job fair	Faculty	10/05/2022	
273		Different types of agricultural land and climatic changes	Faculty	23/05/2022	
274		Symposium" Control of diseases by climate control in greenhouses"	Faculty	30/05/2022	
275		Charitable exhibition of service social solidarity to serve the families in need	Faculty	27/04/2022	
276		Course" Safe production of fruits and vegetables"	Faculty	17/07/2022	18/07/2022
277		Operation and maintenance of internal combustion engines course	Faculty	19/07/2022	
278		Course" Modern Soilless Farming Systems"	Faculty	20/07/2022	
279		Requirements of the Food Safety Authority in Food Factories	Faculty	21/07/2022	
280		Landscape, Hard and Soft, AutoCAD and Real are done in web design	Faculty	24/07/2022	25/07/2022
281		Ornamental fish breeding and the most common diseases in fish farms	Faculty	26/07/2022	27/07/2022
282		Principles of chemical, microbial and physical food analysis techniques	Faculty	28/07/2022	
283		Diagnosis of viral plant diseases	Faculty	13/07/2022	01/08/2022
284		Livestock production under global warming	Faculty	02/08/2022	03/08/2022
285		Microbial quality testing of foods and methods for detecting food poisoning microbes	Faculty	04/08/2022	
286		Beekeeping and beekeeping industry	Faculty	06/08/2022	07/08/2022
287		home pest control	Faculty	09/08/2022	
288		Quail is one of the small projects	Faculty	10/08/2022	

289		Growing and caring for mushrooms	Faculty	13/08/2022	
290		Using the Egyptian Knowledge Bank	Virtual	11/08/2022	
291		Time management and decision making		14/08/2022	
292		Celebration of Arab Heritage in Collaboration with the Faculty of Tourism and Hotels, the Greek Museum, and the Manuscripts Museum	Bibliotheca Alexandrina	18-04-2024	
293		Non-Profit Charity Market by Kayan Charity Association	Faculty	07-03-2024	10-03-2024
294		Non-Profit Charity Market by Kayan Charity Association	Faculty	22-04-2024	24-04-2024
295		Seminar titled "The Role of Egyptian Museums in Promoting Egyptian Heritage"	Faculty	02-03-2024	
296		Job Fair for Fourth-Year College Students	Faculty	06-03-2024	
297		Annual Scientific Conference of the Department of Tourism Studies	Faculty	26-03-2024	
298		Seminar titled "Preserving Alexandria's Heritage"	Faculty	21-02-2024	
299		Seminar titled "Empowering Women to Excel in the Labor Market in 2024"	Faculty	29-02-2024	
300		Conference on "Innovation in the Tourism Industry Amidst Global Contemporary Changes"	Regal Heights Hotel	24-04-2024	25-04-2024
301		Annual Scientific Conference of the Department of Tourist Guidance	Faculty	30-04-2024	
302		Scientific Seminar of the Department of Tourist Guidance Cultural Season	Faculty		
303		Holding the "Cultural Heritage Forum" as Part of the Training Program for Master's Students in Cultural Heritage Studies	Faculty	10-08-2024	
304		Holding the Second Summer Camp for Tourism and Environmental Activities	Faculty	25-08-2024	26-08-2024

305		Holding the "Cultural Heritage Forum"	Faculty	10-08-2024	
306	Saba Pasha Faculty of Agriculture	Your food is your medicine symposium	Faculty	13/03/2023	
307		Symposium on the philosophy of fasting in heavenly religions	Faculty	27/03/2023	
308		Symposium on fish farming, present and future	Faculty	03/04/2023	
309		Symposium on "Food Quality and its Specific Standards"	Faculty	29/01/2023	
310		Bioinformatics Applications Symposium	Faculty	30/01/2023	
311		Symposium on fish farming and the challenges it faces	Faculty	31/01/2023	
312		Seminar on the formation of unconventional feed mixtures	Faculty	01/02/2023	02/02/2023
313		Symposium on genetic engineering and its relationship to solving plant disease problems	Faculty	05/02/2023	
314		Symposium on forensic evidence and its relationship with insects	Faculty	06/02/2023	
315		Agricultural engineering and its relationship to solving desertification problems	Faculty	07/02/2023	
316		Protected agriculture, its goals and advantages	Faculty	08/02/2023	
317		Food safety basics	Faculty	09/02/2023	
318		Smoking and addiction cessation initiative	Faculty	13/02/2023	
319		Your health is a crown and a seminar on obesity and thinness	Faculty	20/02/2023	
320		Symposium on zinc and its impact on the environment and plants	Faculty	27/02/2023	
321		Symposium on genetic engineering and its relationship to solving plant problems	Faculty	06/03/2023	
322		"Food is your medicine" symposium	Faculty	13/03/2023	
323		Mother's Day celebration and honoring exemplary mothers	Faculty	20/03/2023	
324		Symposium on the philosophy of fasting in heavenly religions	Faculty	27/03/2023	

325		Symposium on fish farming, present and future	Faculty	03/04/2023	
326		Laylat al-Qadr exhibition to serve the college community	Faculty	10/04/2023	
327		The college's annual employment meeting	Faculty	08/05/2023	
328		Symposium: No to bullying and harassment for a better society	Faculty	20/04/2023	
329		Symposium on engineering and its relationship to solving plant disease problems	Faculty	09/07/2023	
330		Dairy Industry Symposium: The Dilemma of Safety and Security	Faculty	10/07/2023	
331		Public health pest control symposium	Faculty	12/07/2023	
332		Seminar on basics of food quality and safety	Faculty	13/07/2023	
333		Bioinformatics applications for sustainable insect pest control programme	Faculty	16/07/2023	
334		Training Course: "Vegetable Cultivation on Rooftops"	Faculty	28-01-2024	
335		Training Course: "Modern Farming Systems" - Hydroponics, Aquaponics, Sandponics	Faculty	29-01-2024	
336		Training Course: "Prerequisite Programs in Food Safety Management Systems"	Faculty	30-01-2024	
337		Training Course: "Biological Control"	Faculty	13-01-2024	
338		Training Course: "Fish Farming and Its Challenges"	Faculty	01-02-2024	
339		Training Course: "Safe Use of Pesticides"	Faculty	04-02-2024	
340		Training Course: "Landscaping and Garden Design"	Faculty	05-02-2024	
341		Training Course: "How to Produce Chemical Fertilizer and Vermicompost"	Faculty	07-02-2024	
342		Training Course: "Biotechnology and Its Relationship with the Environment"	Faculty	06-02-2024	

343		Training Course: "Greenhouses"	Faculty	08-02-2024	
344		Organizing a Charity Market	Faculty	19-02-2024	20-02-2024
345		Seminar: "Fasting and Heavenly Religions - Worship of Fasting and Its Effects on Humans"	Faculty	11-03-2024	
346		Seminar: "Egyptian Knowledge Bank"	Faculty	25-03-2024	
347		Seminar: "Ramadan and Quitting Smoking and Addiction"	Faculty	01-04-2024	
348		Seminar: "Modern Trends in Nutrition"	Faculty	15-04-2024	
349		Seminar: "Landscaping and Garden Design"	Faculty	22-04-2024	
350		Seminar: "Accounting in the Agricultural Field"	Faculty	29-04-2024	
351		Annual Employment Fair for the College	Faculty	09-05-2024	
352		Service Training Courses During the Summer Vacation 2023/2024	Faculty	08-07-2024	22-07-2024
353		Free Training Course for Third-Year Students in the Department of Land Reclamation and Desert Cultivation	Faculty	21-07-2024	15-09-2024
354	Faculty of Early Childhood Education	Symposium on "Early Childhood Education after the Corona Pandemic."	Faculty	14/03/2023	
355		An awareness lecture for workers at Alexandria University	Faculty	07/03/2023	
356		Seminars to raise health awareness and behavior for students	Faculty	26/02/2023	26/03/2023
357		Modern visions conference for scientific research in the field of early childhood in light of sustainable development	Conference Hall	06/05/2023	
358		Conference towards new professional horizons in light of sustainable development	Faculty	29/07/2023	
359		The first promise ceremony for the Scout and Guidance Group at the Educational Center	Faculty	20/08/2023	
360		Visit the Bilal Bin Rabah Association	Association	22/07/2023	
361		Conference "Rehabilitating children with disabilities in a	Port Said	04/10/2023	

		changing world according to Vision 2030.”			
362		Celebration of World Wildlife Day	Faculty	02-03-2024	
363		Seminar on Anger Management	Faculty	10-02-2024	
364		the Scientific Conference of the Department of Psychological Sciences: “Towards New Professional Horizons in Light of Sustainable Development”	Faculty	27-02-2024	
365		Awareness-Raising Seminars to Enhance Health Awareness	Faculty	01-02-2024	
366		Workshop: “New Solutions to Support Arab Scientific Publishing”	Faculty	14-02-2024	
367		Seminar on Adolescence and How to Deal with Adolescents	Faculty	17-02-2024	
368		Seminar on Healthy Nutrition, Exercise, and Healthy Diets for a Healthy Body	Faculty	24-02-2024	
369		Graduation Ceremony for the Children of the Educational Center	Anfoushi Cultural Palace	30-05-2024	
370		Organizing the Fourth Forum of the Department of Educational Sciences to Discuss Issues Related to Education	Pharos Faculty Club	24-06-2024	
371	Faculty of Pharmacy	Check in Now Chek Out Never Addiction a life long hotel stay	Faculty	09/03/2023	
372		Keep Your Brain Keep your Geart	Faculty	16/03/2023	
373		100 Million Health Initiative for early screening for chronic diseases and breast cancer	Faculty	22/03/2023	
374		Student exhibition	Faculty	28/03/2023	30/3/203
375		Women,s Health Empowerment Pharmacy Prespectives	Faculty	14/05/2023	15/05/2023
376		Conducting a training course on civil protection	Faculty	11-02-2024	16-02-2024
377		Conducting two training courses for pharmacists: “Women’s Health Empowerment: Perspectives”	Faculty	21-02-2024	22-02-2024

378		Conducting an online lecture titled "A Life Worth Living: How to Take Care of Yourself"	Faculty	14-05-2024	
379		Holding a student exhibition for the benefit of students and staff at the college	Faculty	02-03-2024	04-03-2024
380		A scientific seminar titled "Pharmaceutical Nutritional Supplements: An Advanced Approach in Healthcare"	Faculty	30-11-2023	
381		Workshop "Technology, Innovation, and Commercialization Office"	Faculty	25-02-2024	
382		Awareness day "Free Screening for Dry Eyes"	Faculty	28-02-2024	
383		Introduction day to the activities of several associations concerned with people of determination	Faculty	12-03-2024	
384		Awareness day "A Better Life Through Better Vision" on the prevention of eye diseases organized by Noor Stores	Faculty	25-03-2024	26-03-2024
385		Workshop "Scientific Communication Skills"	Faculty	09-05-2024	
386		Student employment fair	Faculty	21-04-2024	23-04-2024
387		Seminar "Recovery Concepts in Substance Abuse"	Faculty	16-05-2024	
388	Higher Institute of Public Health	Smoking effectiveness and addiction	Institute	07/03/2023	
389		International Women's Day	Institute	08/03/2023	
390		Labor Day Symposium	Institute	21/05/2023	
391		Symposium on violence against women	Institute	25/05/2023	
392		Charity market	Institute	21/06/2023	22/06/2023
393		Symposium on challenges of autism spectrum disorder	Institute	20/06/2023	21/06/2023
394		Annual conference of the Department of Epidemiology	Institute	30/08/2023	
395		Organizing an event titled "International Women's Day"	Institute	04-03-2024	
396		Seminar "Cancer Prevention Everyday"	Institute	29-04-2024	

397	Medical Research Institute	Training course "Research Methods"	Institute	12-05-2024	13-05-2024
398		Seminar titled "How Cancer Happens and Why"	Institute	28-05-2024	
399		Seminar titled "Healthcare for Refugees: Rights, Challenges, and Cooperation Prospects"	Institute	23-06-2024	
400		Seminar titled "Liver Cancer in Egypt"	Institute	26-06-2024	
401		Workshop "Intellectual Property and Public Health: Intersection Areas, Challenges, and Opportunities"	Institute	27-06-2024	
402		Induction day and third student conference for postgraduate students	Institute		
403		Scientific day about "World Kidney Disease Day"	Institute		
404		Us Guided Interventions for Never Entrapment	Institute		
405		Symposium: "Are we misusing antibiotics?"	Institute		
406		Ideal mother competition	Institute		
407		A visit to the institute from Alexandria Rasma Language Secondary School for Girls	Institute		
408		The Eighth International Conference of the Department of Chemical Pathology	Institute		
409		The nineteenth conference of the institute	Institute	5/14/2023	
410		Charity market	Institute	1/29/2023	
411		A charity market for the benefit of patients of the Research Institute Hospital	Institute	2/26/2023	
412		Scientific meeting on the General Hepatology Day	Institute		
413		Seminar on "Safe Disposal of Medical Waste"	Institute		
414		Training seminar on "Types of fires and how to deal with them"	Institute		
415		Training course on first aid	Institute		
416		Seminar "How to write a CV"	Institute		

417		charity market	Institute		
418		Organizing a charity market for the benefit of the institute's affiliates and patients	Institute	27-01-2024	28-01-2024
419		Organizing a charity market for the benefit of the institute's affiliates and patients	Institute	03-03-2024	
420		Holding an annual conference for the Biochemistry Department	Institute	03-03-2024	
421		Organizing a seminar "Physical and Psychological Abuse: Detection and Treatment Methods"	Institute	19-02-2024	
422		Organizing a scientific day	Institute	22-07-2024	
423		Holding the 4th conference of the Human Physiology Department titled "Nervous Tension: From Research to Clinical Practice"	Institute	23-05-2024	
424		Seminar titled "First Aid in Pre-Cardiopulmonary Resuscitation Cases"	Institute	16-07-2024	
425		Seminar titled "First Aid in Cases of Wounds, Burns, and Fractures"	Institute	23-07-2024	
426		Organizing a seminar titled "Basics of Drug Safety and Security"	Institute	19-08-2024	
427		the workshop of the Biochemistry Department titled "Nucleic Acids Extraction"	Institute	11-08-2024	12-08-2024
428		Organizing a seminar titled "Cardiac Amyloidosis Day"	Institute	30-09-2024	
429		Organizing a scientific day titled "Celiac Disease"	Institute	02-10-2024	
430		Organizing a scientific conference titled "Sharing Experiences in Infection Control Practices"	Institute	12-10-2024	
431	Institute of Graduate Studies and Research	Lecture: "Scientific Research in Facing Societal Challenges"	Institute		
432		Lecture: "From Scientific Research to Entrepreneurship"	Institute		
433		Lecture: "Spotlight on the Science, Technology and	Institute		

		Innovation Funding Authority”			
434		Workshop “Developing a research project proposal in the field of climate change”	Institute	2/20/2023	
435		Lecture: “Spotlight on the Science, Technology and Innovation Funding Authority”	Institute		
436		Microbial fuel cell as asustainable approach for water	Institute		
437		Lecture: “My Experience with the Industry”	Institute		
438		Hosting faculty members from King Saud University at the institute	Institute		
439		Sustainable Development Prospects Lecture: Modern trends in polypropylene recycling	Institute		
440		A literary vision lecture, presenting the stories of songs	Institute		
441		Sustainable biofuels lecture	Institute		
442		The event of “A Literary Vision: Presentation of the book Hakawi Al-Aghani”	Institute		
443		Lecture titled “Business Growth: The Path to Investing in Scientific Research”	Instiute	22-01-2024	
444		Public lecture titled “Education, Learning, and Scientific Research in the Era of Generative AI”	Instiute	17-02-2024	
445		Lecture titled “Renewable Energy from Biomass: Challenges and Opportunities”	Instiute	02-03-2024	
446		Lecture titled “The Role of Innovation in Achieving Business Competitiveness”	Instiute	24-02-2024	
447		Lecture titled “The Role of the Basel Regional Center for Training and Technology Transfer to Arab States and Features of the Cooperation Agreement between the Center and the Institute”	Instiute	21-04-2024	
448		Lecture titled “From Scientific Research to	Instiute	11-05-2024	

		Industrial Success: The Journey of Entrepreneurship and Achieving Impact”			
449		Organizing the Environmental Scientific Forum on the Occasion of World Environment Day 2024	Institute	08-06-2024	
450		Conference titled “Industry and Environment”	Institute	30-01-2024	31-01-2024
451		The First Conference on Advances in Science for Sustainable Development	Institute	18-05-2024	19-05-2024
452		Seminar titled “University Resilience to Climate Change: Sustainability, Innovation, and Zero Emissions”	Institute	08-01-2024	
453		Training workshop titled “Authority Control and Linked Data”	Institute	29-02-2024	
454		Seminar titled “The National Initiative for Smart Green Projects: Introduction to Its Goals, Categories, and Nomination Criteria”	Institute	20-08-2024	
455		Holding a public lecture “Using Modern Technology to Build Housing, Commercial Buildings, and Educational Facilities”	Institute	02-06-2024	
456	Faculty of Economic Studies	A charity exhibition in cooperation with the Sarh Association	Faculty	3/8/2023	
457		Symposium on “Local and International Economic Conditions”	Faculty		
458		Don't Ask Google Workshop	Faculty		
459		College visit to the Egyptian Military Museum and Saladin Citadel	Faculty		
460		Symposium on Egyptian foreign policy and current transformations in international politics	Faculty		
461		The sixth scientific conference of the college	Faculty	5/4/2023	
462		The Fourth Forum for Arab Youth Entrepreneurship, in cooperation with the	Faculty	7/17/2023	

		Economic Development Association			
463		Seminar: "The Egyptian Pound Crisis and How to Get Out of It"	Faculty		
464		Organizing the "Young Politician" program	Faculty	06-03-2024	09-03-2024
465		Organizing the annual charity clothing exhibition in cooperation with the "We Are Good" Foundation	University Dormitories	02-01-2024	24-01-2024
466		The second employment forum for 2024 for college graduates	Faculty	05-03-2024	
467		Organizing the 7th scientific conference on the economic and political axis	Faculty	24-04-2024	25-04-2024
468		Seminar titled "Paths of the Palestinian Cause"	Faculty	20-02-2024	
469		Organizing a tree planting and pruning day and planting fruit trees as part of the "Green Change Leaders" project	Faculty	28-07-2024	
470	Faculty of Medicine	The Third Annual Conference of Doctors of Excellence at the College of Medicine	Faculty	23/02/2023	
471		Alexandria Children's Cancer Hospital Association Fifth International Oncology Conference	Hilton King Rush	23/02/2023	25/02/2023
472		Charity clothing fair	Faculty	04/04/2023	05/04/2023
473		Alexandria Oncology Forum	Helnan Palestine	03/05/2023	05/05/2023
474		A scientific meeting between the Mother and Child Friends Association and Shatby Hospital	Faculty	16/05/2023	
475		The 26th Annual Conference of the Department of Oncology and Nuclear Medicine	Alexandria Library	15/11/2023	17/11/2023
476		Annual conference for integrated health care for children with congenital differences, Neil Al Amal Hospital	Alexandria Library	17/09/2023	19/09/2023
477		Book fair at the educational section in Al-Mouwasat		01-01-2024	15-01-2024
478		The 36th annual clothing exhibition	Faculty	19-03-2024	20-03-2024

479		Holding a special conference for the college	Faculty	02-03-2024	03-03-2024
480		The 4th annual Excellence Conference	Faculty	21-02-2024	22-02-2024
481		The 11th annual conference on pediatric chest diseases	Faculty	07-05-2024	10-05-2024
482		Seminar titled "Combating Addiction" and raising awareness of its dangers among youth	Faculty	12-02-2024	
483		Organizing an awareness day on the occasion of "International Women's Day"	Faculty	05-03-2024	
484		Bridge Retina BRC2024 Congress	Hilton Alexandria Green Plaza	27-06-2024	28-06-2024
485	Faculty of Law	Symposium on Citizenship in Christianity and Islam	Faculty	01/03/2023	
486		Seminar titled "Reflections on Emotion and Law"	Faculty	07-03-2024	
487	Faculty of Computer and Data Science	Jobfair recruitment forum for college students	Faculty	18/05/2023	
488	Faculty of Nursing	Celebration of International Women's Day	Faculty	09/03/2023	
489		Cultural Salon "Mental Health and the Importance of Expressing Feelings"	Faculty	22/02/2023	
490		Neonatal Neuroblastomas The holistic Nursing	Faculty	05/03/2023	
491		Symposium on "Medical and Jurisprudential Questions About Chronic Diseases During the Holy Month of Ramadan"	Faculty	08/03/2023	
492		Charity exhibition	Faculty	19/03/2023	
493		A community visit to Bilal Bin Rabah House and the Health Improvement House	Faculty	12/10/2022	
494		"Scientific Writing" workshop	Faculty	22/03/2023	
495		"International Publication "	Online		
496		Cultural Salon, "Emotional Intelligence and Mental Health," Part One	Faculty	03/05/2023	

497		Cultural Salon "Emotional Intelligence and Mental Health," Part Two	Faculty	24/05/2023	
498		Orphan's Day celebration	Faculty	07/05/2023	
499		World Occupational Safety and Health Day event	Faculty	17/05/2023	
500		Exhibition of food and agricultural products	Faculty	18/06/2023	
501		"Nursing Interview Skills:Tricky Questions"	Faculty	18/06/2023	
502		"Digital Etiquette)Netiquette) "	Faculty	11/06/2023	
503		International Nurses Day	Faculty	18/05/2023	
504		Cultural Salon "Achieving psychological calm and taking care of mental health"	Faculty	25/01/2023	
505		An awareness program during the end of the year vacation	Faculty	11/07/2023	
506		Graduation ceremony for students of the Technical Institute of Nursing	Faculty	24/08/2023	
507		Handy Peer Counselor	Faculty	24/07/2023	
508		Celebrating the National Day of Alexandria Governorate	Faculty	27/07/2023	
509		Administration of Blood components	Faculty	26/07/2023	
510		Awareness day "Towards supporting and strengthening the national strategy to combat drugs"	Faculty	18/07/2023	
511		Celebrating World Down Syndrome Day titled "Differently Abled"	Faculty	03-03-2024	
512		Organizing a leather products sale exhibition	Faculty	25-02-2024	29-02-2024
513		Several educational awareness seminars to raise health awareness among college students	Faculty		
514		International Women's Day celebration "Egyptian Women: Icons of Success"	Faculty	19-03-2024	
515		Interactive workshop on first aid training	Faculty	31-01-2024	07-02-2024
516		Seminar titled "Violence Against Women: Challenges and Solutions"	Faculty	18-08-2024	
517		Awareness seminar on promoting energy	Faculty	22-09-2024	

		conservation culture and improving its efficiency			
518		Weekly workshop series on patient safety in hospitals	Faculty	13-08-2024	
519		Seminar titled "Ductus Arteriosus: Patent or Closed? That is the Question"	Faculty	25-09-2024	
520	Faculty of Engineering	Symposium on "Earthquakes, Their Impact, Dealing with Them, and Seismic Design of Buildings"	Faculty	01/03/2023	
521		21st Engineering Job Market	Faculty	20/05/2023	
522		Public lecture	Faculty	28/02/2023	
523		Public lecture titled "3D Printing of Metallic and Ceramic Materials"	Faculty	29-07-2024	
524		Celebration of the 60th Anniversary of the Graduation of the First Class from the Department	Faculty	15-08-2024	
525		Workshop between the Center of Excellence for Water and the Arab Water Center "WATER - ENERGY - FOOD"	Faculty	10-08-2024	11-08-2024
526		Workshop titled "Enhancing Cooperation between Industry and the Center of Excellence for Water" in the field of water	Faculty	23-09-2024	
527	Faculty of Dentistry	Holding a graduation ceremony for the 76th batch of the general program of the college and the 10th batch of the international program for the year 2023	Faculty	02-08-2024	
528	Faculty of Fine Arts	Course "Arts and Design"	Faculty	07-2023	
529		Course "Fundamentals of Architecture"	Faculty	07-2023	
530		Course "The Little Drawing Studio" for teaching drawing to children	Faculty	07-2023	
531		Course "Fashion Design Art"	Faculty	02-2024	
532		Course "Free Photography Art"	Faculty	02-2024	

533		Course "Fundamentals of Drawing and Coloring"	Faculty	June 2024	
534		Course "Jewelry Art"	Faculty	June 2024	
535		Course "Free Decoration Art"	Faculty	June 2024	
536		Biomat Design Philosophy: Resource-Based Architecture	Bibliotheca Alexandrina	29-07-2024	

The Faculty and Leadership Development Center (FLDC)

The Faculty and Leadership Development Center (FLDC) at Alexandria University is a distinguished center for professional development, serving local, regional, and global communities. It focuses on enhancing the skills of faculty members, leaders, and other higher education personnel, as well as promoting human development for individuals and community organizations. From 2021-2024, the FLDC conducted various training programs aimed at improving teaching and learning for university affiliates, including faculty members, assistant staff members, postgraduate students, and administrative personnel, as detailed in the following table.

Years	No	Program Name	Alexandria university members	public universities	private universities	African university	Total
2021-2022	537	Research Ethics and Plagiarism	383	7	2	0	392
	538	Research Methodologies	240	0	0	0	240
	539	Administrative Leadership Qualification Package	0	0	0	0	460
	540	Credit Hour Systems	439	0	0	0	439
	541	Teaching with Technology	65	5	0	0	70
	542	Global Databases Usage	324	1	0	0	325
	543	Competitive Research Projects Proposals	239	7	1	0	247
	544	E - Exams	136	8	2	0	146
	545	E - Learning	54	2	0	0	56
	546	Legal and Financial Aspects in University	175	16	3	0	194

547	Flipped Classroom	10	0	0	0	10
548	University Laws and Regulations	138	6	1	0	145
549	Leadership and Strategic Thinking	105	1	0	0	106
550	Technical Writing	191	5	0	0	196
551	International Publishing of Research	271	26	5	0	302
552	Design and Production of Digital Content	181	15	2	0	198
553	Competency Based Curriculum Design and Assessment	19	1	2	0	22
554	Scientific Conferences Organization	28	0	0	0	28
555	Funded Research Implementation and Research Team Management	188	14	4	0	206
556	Executive Leadership Development	105	2	0	0	107
557	Rights and Duties of University Staff Assistants	288	0	0	0	288
558	Quality Standards in Teaching	266	21	2	0	289
559	Quality Standards in Learning	216	0	0	0	216
560	communication and presentation Skills	348	4	0	0	352
561	References Management System	303	5	0	0	308
562	Exams and Students	259	8	0	0	267

		Evaluation Systems					
	563	Experimental Design and Statistical Analyses Systems	348	6	2	0	356
Total members			5965				

Years	NO	Program Name	Alexandria university members	Public universities	Private universities	African university	Total
2022-2023	564	Research Ethics and Plagiarism	532	15	6	0	553
	565	Principles of Quality Management and Patient Safety in Health Care Institutions	9	0	0	0	9
	566	Research Methodologies	288	1	0	0	289
	567	Teaching with Technology	28	5	0	0	33
	568	Global Databases Usage	17	2	0	0	19
	569	Competitive Research Projects Proposals	230	4	0	0	234
	570	E - Exams	201	11	2	0	214
	571	Management and Institutional Work-Frame	2	0	0	7	9
	572	Strategic planning using the Balanced Scorecard (PSC)	14	0	0	0	14
	573	Legal and Financial Aspects in University	177	26	4	0	207
	574	University Laws and Regulations	124	2	1	0	127
	575	Leadership and Strategic Thinking	133	6	1	7	147
	576	Teaching with Technology	110	5	2	0	117
	577	International Publishing of Research	412	29	0	0	441
	578	Design and Production of Digital Content	212	26	0	0	238
	579	Funded Research Implementation and Research Team Management	227	34	6	0	267
	580	Rights and Duties of University Staff Assistants	280	0	0	0	280
	581	Quality Standards in Teaching	259	12	2	0	273
	582	Quality Standards in Learning	55	5	18	7	85

	583	communication and presentation Skills	318	18	0	0	336
	584	Executive Leadership Development	132	6	1	7	146
	585	References Management System	349	8	3	0	360
	586	Exams and Students Evaluation Systems	261	11	4	0	276
	587	Experimental Design and Statistical Analyses Systems	313	0	0	0	313
	588	Preparation and Management of Projects	2	0	0	7	9
	589	Credit Hour Systems	247	5	0	0	15
	Total		5011				

Years		Program Name	Alexandria university members	public universities	private universities	African university	Total
2023-2024	590	Research Ethics and Plagiarism	352	9	0	12	373
	591	Research Methodologies	145	2	0	0	147
	592	Global Databases Usage	13	0	0	0	13
	593	Competitive Research Projects Proposals	214	0	0	0	0
	594	E - Exams	83	7	0	0	90
	595	Legal and Financial Aspects in University	95	7	2	0	104
	596	University Laws and Regulations	63	4	0	0	67
	597	Leadership and Strategic Thinking	63	1	0	0	64
	598	International Publishing of Research	232	9	1	12	254
	599	Design and Production of Digital Content	101	16	2	0	119
	600	Funded Research Implementation and Research Team Management	102	11	1	0	114
	601	Rights and Duties of University Staff Assistants	225	0	0	0	225
	602	Quality Standards in Teaching	179	4	0	0	183
	603	Quality Standards in Learning	38	1	0	0	39
	604	communication and presentation Skills	424	6	1	0	431
	605	Executive Leadership Development	63	1	0	0	64
	606	References Management System	229	2	0	0	231

	607	Exams and Students Evaluation Systems	172	0	0	0	172
	608	Experimental Design and Statistical Analyses Systems	246	2	0	0	248
	609	Classroom	18	0	0	0	18
	610	Technical writing	204	0	0	0	204
	611	Academic leadership training bag	86	0	0	0	86
	612	Administrative Leadership Qualification Package	80	0	0	0	80
	Total		3326				

Description:

Number of events related to environment and sustainability hosted or organized by the Alexandria University in academic year 2022-2024 more than **612 events**. The table above show examples of some activities with description and photos.

Number of activities organized by student organizations related to sustainability per year



There are 28 students' organizations related to sustainability which organized and participated in many activities.

The number of students' events related to sustainability is more than **70 events** in 2022 to 2023.


Examples of some activities with description and photos:



The Mind Cloud team (Department of Electrical Engineering- Faculty of Engineering- Alexandria University) won third place in the Unmanned Ground Vehicles Competition (UGVC), which is part of the international Unmanned System Innovation Competition (UMSIC), which was hosted by the Military Technical College and in which many international and local teams competed.




Chemistry info desk about ACS Alexandria University Student Chapter showing some chemical experiments to attract people and let them know how exciting and fascinating is chemistry. Some of the experiments were Chemical chameleon, artificial silk, Carbon dioxide extinguisher, Elephant toothpaste, and Non-Newtonian Fluid using corn starch.



**An Outstanding Journey
(2014-2024)**

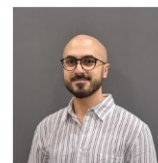
American Chemical Society International Student
Chapter at Alexandria University



ACS Alexandria University Co-founders



Prof. Sherine Khattab



Hossny Ismail



Mousa Saleem

ACS Conferences and Travel Grants



Marrakech, Morocco 2022



San Francisco, CA,
USA 2023



NYU, Abu Dhabi,
UAE 2024

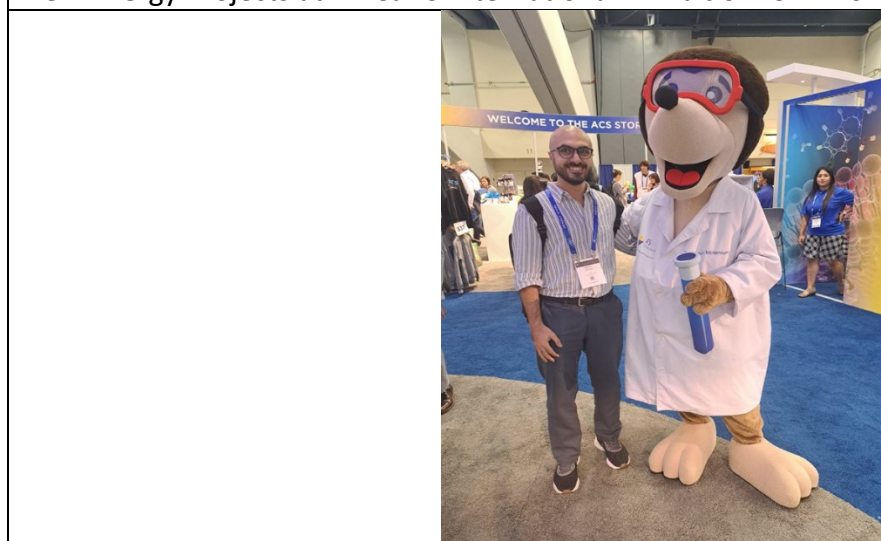
ACS Leadership Summit & ABCChem Conference held in Marrakech, Morocco, 12-16 December 2022; San Francisco, USA, 2023; and Abu Dhabi, UAE, 2024. The summits are organized for international ACS chapter leaders to discuss various topics on chapter management, challenges, and making collaborations to achieve mutual goals."



In the 10th Creativity Festival 2022 for the youth of universities, higher institutes, and governmental and private academies, with the participation of 153 governmental and private universities and institutes across the Republic students of Alexandria University obtained first place in the field of scientific innovations _ROV, an automated submarine project dedicated to conservation on marine life and surrounding life, and first place in the field of solo singing, Alexandria University also won second place in the field of scientific innovations - the Internet of Things and artificial intelligence - the truck towing system project, and also second place in each of group singing, cultural league, and non-specialized correspondent.

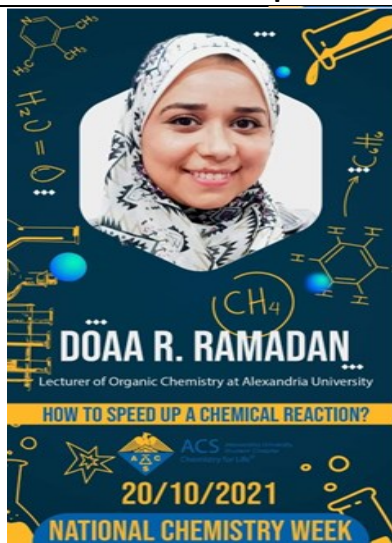


Alexandria University Wins First Place in Innovations & Patent Index Ranking and Silver Medal in New Energy Projects at 7th Cairo International Exhibition for Innovation Fair 2023



ACS FALL 2023 NATIONAL MEETING AT SF, CA 13 - 17 August 2023. Participation of the ACS Alexandria University Student Chapter in the fall national meeting for sharing ideas, knowing

more opportunities the ACS affords for the international student Chapter. Hossny Ismail our graduate advisor and chapter co-founder presented chapter and attended the conference.



ACS Alexandria Paper Club Monthly activity

Hosting a speaker to talk either about his research or work as a chemist, illustrating to the audience, which are mainly undergrads, the importance of chemistry, its applications and the available opportunities after graduation. Each session is concluded with an open discussion and Q&A.



Alex Eagles Alexandria Engineering team won world gold in the SAE International Competition in America. The team won the award for the best design for a drone, first place in the world in the design report for the "Oqab" aircraft, and first place in the world in the oral presentation, making it the first team in Egypt, the Arab world and the Middle East to achieve two gold medals in that competition. The team was able to secure two gold medals out of four, shared equally with the University of Puerto Rico team in the United States of America, which also won two gold medals in the flight rounds and the overall ranking, outperforming 30 teams from all countries of the world.



Training of the Safety and Health Student Team at the Faculty of Science

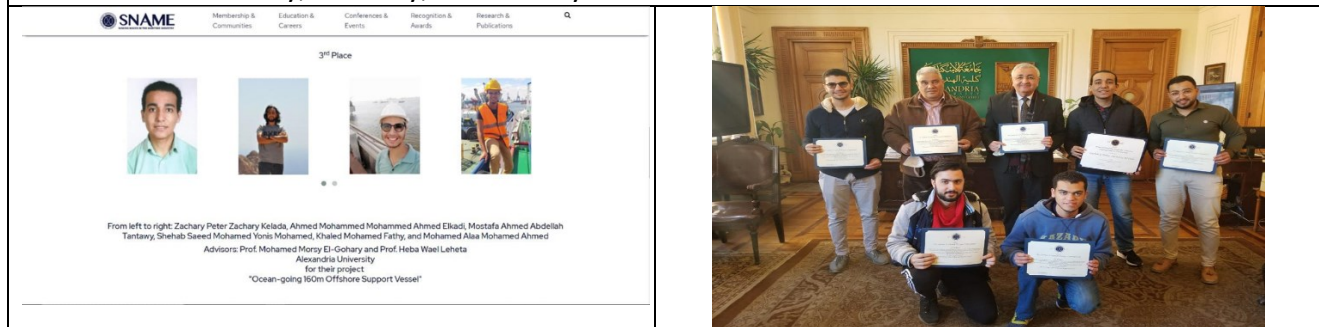


Alexandria University, received the Excellence Award from the Society of Petroleum Engineers International "Student chapter Excellence Award 2022"



The students of the Gas and Petrochemical Program visited the Middle East Petroleum Refining Company "Midor" on Thursday, 24/3/2022, where the students learned about the refining operations and the various industrial operations that take place in the company, the treatment and separation operations, and the expansions that take place in the company, where the company's refining capacity is 60%, and this comes as a continuation of the cooperation between the company

and the Faculty of Engineering, Alexandria University, in line with the cooperation between Alexandria University, industry, and society.



SNAME Alexandria Team subscribe a group of students in the department competed in the international ship design competition among students around the world to succeed in creating a complete design and the SNAME Alexandria team won third place for the second year in a row. The “Dr James A Lisnyk Ship Design Competition” is presented by the SNAME organization to compete between various student chapters in universities around the world.



Launching the “Awareness Ambassadors Hall” program at Alexandria University to raise awareness to achieve the sustainable development goals by building leadership cadres to work in the field of awareness (Solidarity with Aware People Initiative), in cooperation with the Leaders Foundation for Administrative Sciences and Development, the State Information Service, officials at the Ministry of Solidarity, and the Leaders Foundation for Administrative Sciences, to implement the program that aims to achieve the state’s plan to advance the citizen and preserve the homeland (Decent Life Initiative), and build cadres to work in the field of awareness (Eradicating an Aware and Solidarity People), and discussing awareness issues at all levels.



In the framework of the Enactus World Cup 2024, and with the support of the Innovators and Talents Care Fund, we are pleased to announce the victory of 4 Egyptian teams, achieving advanced positions among the top 12 teams globally in Africa, Alexandria University team achieved the twelfth place.



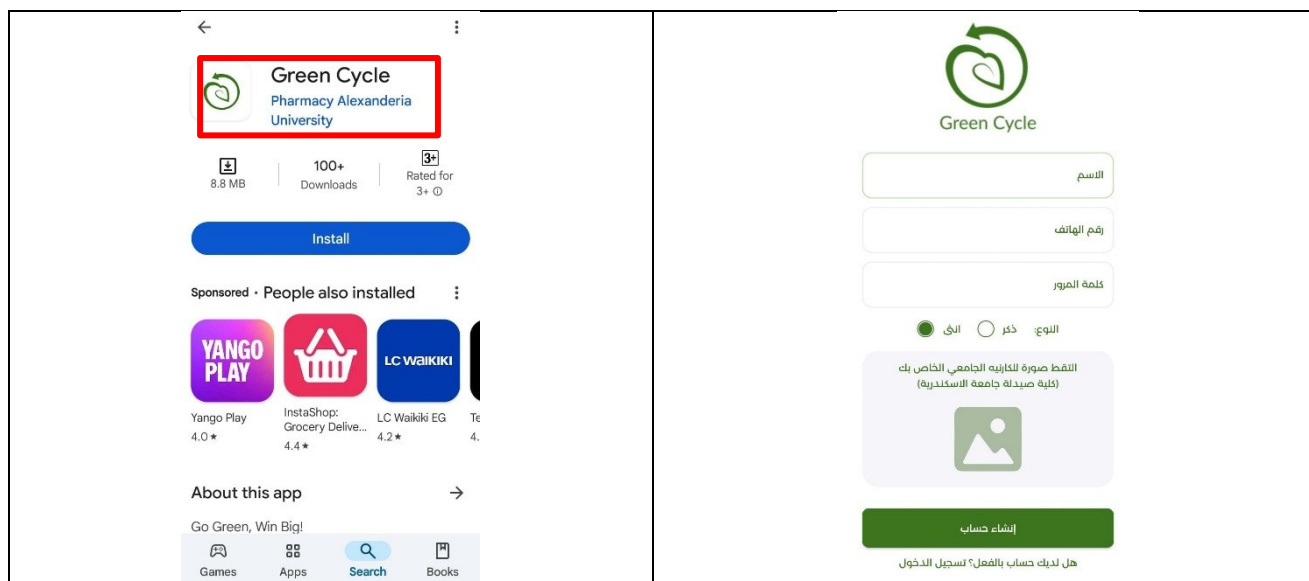
On Thursday, February 2, 2023, the Student Families Administration at the General Administration of Youth Welfare organized a visit to the 54th International Book Fair, held under the slogan 'Together We Read, Think, and Create'. A student delegation consisting of 35 students from various faculties of Alexandria University participated in the visit. The students began their tour inside the fair by visiting the pavilions of the Ministry of Defense, the Ministry of Interior, and the Administrative Control Authority. They then took a free tour inside the fair, and some students attended the cultural seminar in the main hall (Salah Jaheen).



In 12/14/2023, Students from the Faculty of Engineering at Alexandria University, enrolled in the (2+2) joint degree program with the University of Louisville, excelled in a graduation projects competition. Sarah Ihab from Biomedical Engineering secured first place, while Samuel Ibrahim, Youssef Bekhit, and Omar Salem achieved third place. The program allows students to earn dual degrees in either Biological Engineering or Computer Science and Engineering, with the first two years spent at Alexandria University and the final two years at Louisville.



Alexandria University's Choir Festival Competition Results Announced for Group and Solo Performance. The results of the Choir Festival Competition revealed that the Faculty of Education secured first place for the fifth consecutive year, followed by the Faculty of Business in second place. The Faculty of Physical Education for Boys and the Faculty of Physical Education for Girls tied for third place, while the Faculty of Arts achieved fourth place, and the Faculty of Economic Studies and Political Science rounded out the rankings in fifth place (March, 2024).



The students at the Faculty of Pharmacy developed an application (Green Cycle), prepared for smart phones, which enables Faculty members and college employees to share cars for transportation in a safe manner



As part of the summer activity plan at the Faculty of Science, Alexandria University, in order to raise awareness among school students in Alexandria, a series of scientific lectures covering various fields was organized to prepare students from the Educational Exploratory Center under the Ministry of Education. The lectures were held weekly throughout August 2024, featuring a variety of presentations by students from the 'Smart Student Team,' which is currently registered on a trial basis under the Student Union Committee.





Under the auspices of
Prof. Abdelaziz Hassanein Kousowa
Alexandria University President

The Faculty of Science at Alexandria University, in collaboration with ACS-Egypt and ACS Alexandria University are organizing

"SPARKLING MINDS: A Chemistry Carnival for Every Child"

October 19, 2024 Faculty of Science, Moharram Bek Building, 10:00 AM

This carnival is a vibrant and inclusive event designed to ignite curiosity and excitement about chemistry among orphans and children with determination. Through engaging hands-on activities, interactive exhibits, and entertaining demonstrations, this carnival aims to empower every child to explore the wonders of chemistry in a fun and accessible way. From colorful experiments to dazzling reactions, Sparkling Minds fosters a sense of wonder and discovery, inspiring young minds to embrace the fascinating world of science.

Timeline

Activity	Description	Time
Opening and Welcome	Speeches, music performances, and magic shows	10:00-11:00
Interactive Exhibits and Workshops	Colorful reactions, making slime, pH experiments	11:00-13:00
Break	Distributing meals to the children	13:00-13:30
Games	Various games	13:30-15:30
Closing Ceremony	Distribution of gifts and prizes to the children	15:30-16:00



مصر
رؤسarı
نادی اسکندریة
سكان سکیفانو



The Chemistry Festival Celebration titled 'Brilliant Minds: Chemistry Carnival for Every Child.' The event is organized by ACS Chapter Egypt, and ACS Alexandria University Student Chapter Chemistry for Life. The event targets orphaned children and children with special needs, allowing them to enjoy interactive activities and presentations (19th October 2024).

Description:

Number of student organizations related to sustainability:

There are 28 students' organizations related to sustainability which organized and participated in many activities.

The number of students' events related to sustainability is more than 155 events in the period 2022 to 2024.

The table above show examples of some activities with description and photos.

Number of cultural activities on campus (e.g.Cultural Festival) including virtual activities



The number cultural activities on campus organized by Alexandria University: **247 events**

Museum of Central library of Rare collectibles, Heritage books and manuscripts (Alexandria University, EGYPT)

Hall 1 contains the first University Thesis and Graduation Certificate of the most famous graduates, University building maps, and heritage manuscripts.

Hall 2 contains the 13th century AD manuscript of David's Ticket. The Library contains 1095 Arabic Manuscript. 24 Persian Manuscript and 114 Turkish Manuscript.

Hall 3 contains 1337 volumes, including books on the Crusades, and many rare books on Egypt in German, French, Italian, and the first foreign publications, the oldest of which date back to the 16th century AD.

Link: <https://clib.alexu.edu.eg/index.php/2019-02-12-09-16-07/2019-02-12-09-23-42/2021-01-20-19-49-36>

Link: <https://clib.alexu.edu.eg/index.php>

Link: <https://alexu.edu.eg/index.php/en/university-libraries>

Link: <https://alexu.edu.eg/index.php/en/2015-11-24-10-39-04/libraries1/central-library>



Museum of Central library of Rare collectibles, Heritage books and manuscripts (Alexandria University, EGYPT)

Geological Museum at the Faculty of Science (Alexandria University, EGYPT)

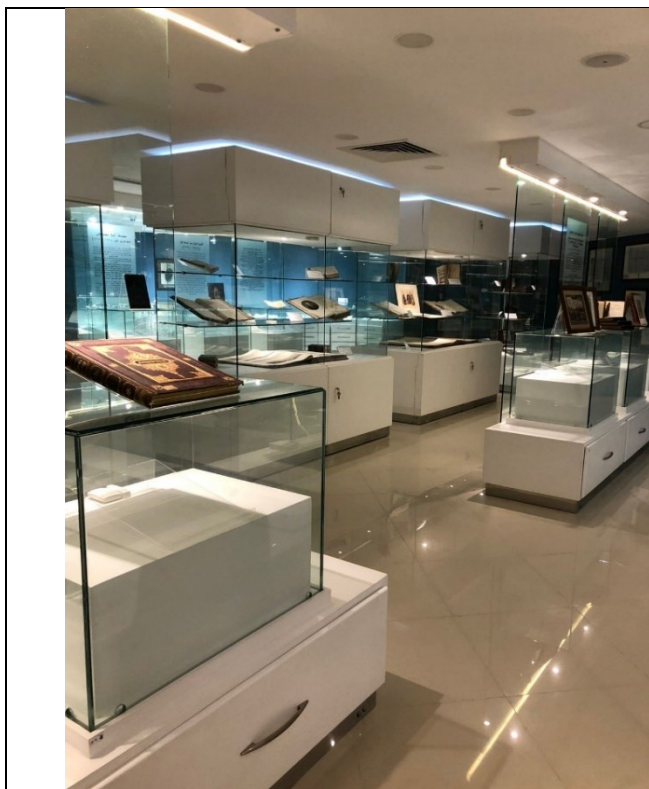
The Geological Museum at Alexandria University has several significant specimens, such as rocks, minerals, and fossils, collected through the research activities of the professors and post-graduate students of the Geological Department-Alexandria University. The Museum was rejuvenated after the generous funding of Centamin Gold Company. Since its opening, it has provided the public, e.g., families and elementary schools students, as well as undergraduate students, with opportunities to learn about domestic regional geology, underground resources, marine geology, global environment, and geological hazards, including volcanic eruption, earthquake, and tsunami, as well as the latest knowledge of earth sciences. The Museum holds special seasonal exhibitions and urgent investigation debriefing sessions as necessary. It also advances the effort to use our expertise and technology in earth science in the industry. The Museum's ultimate goal is to show what our planet is like, learn how closely humans are interconnected, and think about what we should do to be friendly with our Only One Earth.

The Zoology Department Museum includes a group of preserved and mummified animals, most of them from the Egyptian environment, such as indigo fish - fish of the Red and Mediterranean seas - reptiles - birds – mammals. In addition to a group of human skeletons and some animals and skulls. The museum includes a distinguished collection of mummified heads of Egyptian and European deer. A distinguished collection of coral reefs of the Red Sea are displayed in addition to manufactured models of life cycles and growth stages of many insects, vertebrates and vertebrates, as well as many slides and microscopic samples.

Display methods vary, such as wooden and glass cupboards equipped with lighting, identification panels, paintings, microscopic slides, and direct projection on some corridor walls.

The museum contributes to providing educational services to undergraduate and postgraduate students through review, examination and practical application of some academic courses. The opportunity for school visits as a service to the Alexandrian community is also provided.

Conferences, Symposia and Exhibitions during year 2022



Museum of Central library of Rare collectibles, Heritage books and manuscripts (Alexandria University, EGYPT)



Museum of Central library of Rare collectibles, Heritage books and manuscripts (Alexandria University, EGYPT)



Geological Museum at the Faculty of Science (Alexandria University, EGYPT)



Zoology Museum at the Faculty of Science (Alexandria University, EGYPT)



Faculty of Engineering Organizes Educational Seminar Celebrating 50th Anniversary of October victories, with the Participation of War Heroes



Alexandria University Hosts University of Louisville High-Ranking Delegation



Seminar on "Management, Sustainability and Strategic Planning of the Center of Excellence for Water" at Faculty of Engineering



The Faculty of Science, Alexandria University, holds the annual charity exhibition activities. March 6-9, 2023.



Faculty of Engineering Organizes Educational Seminar Celebrating 50th Anniversary of October victories, with the Participation of War Heroes



Alexandria University hosted University of Louisville high ranking delegation

A visit to Faculty of Engineering by 58 students from the German School of Saint-Charles Bormes on Sunday, May 7, 2023.



The Social Solidarity Unit at Alexandria University held a symposium entitled "Combat Illegal Immigration"



Opening of an exhibition in the Department of Decoration, Faculty of Fine Arts, Alexandria University



On April 9, 2023, Professor Dr. Abdelaziz Konsowa, President of Alexandria University, attended the Choir and Solo Singing Festival awards ceremony at Horreya Creativity Centre. The event celebrated the cooperation between Alexandria University and the centre. He congratulated the winning teams and announced plans to form an excellent choir team. The festival results were announced, with the Faculties of Education and Commerce sharing first place, the Faculty of Physical Education for boys in second, and the Faculty of Science in third. Solo performance winners included Yahya Farag (first place), Sarah Aziz (second place), and Fouad Samir (third place). The ceremony featured performances by the Faculty of Commerce choir, the university's folklore team, and the Faculty of Education choir.



Dr. Abdelaziz Konsowa, President of Alexandria University, inaugurated the second “Students for Egypt” forum on October 15, 2022. The event, held under the slogan “Together We Build the New Republic,” emphasized student involvement in Egypt’s development. Key speakers highlighted the importance of student activities and entrepreneurship. The ceremony included awards, tree planting, and performances, celebrating student achievements and future contributions.



The Faculty of Education at Alexandria University hosted Al-Azhar female preachers to attend lectures and spread Islamic culture, moderate religious doctrine, and raise awareness about climate change’s effects on women. The visit concluded with an educational seminar featuring prominent speakers from the Islamic Research Academy and Al-Azhar District.



Professor Dr. Abdelaziz Konsowa, President of Alexandria University, participated in an educational seminar titled “The Role of Cultural Platforms in Developing Youth Awareness,” organized by the Faculty of Arts. The event featured prominent speakers discussing the importance of cultural awareness and its role in economic development. Dr. Konsowa emphasized the need for good education and student engagement in national projects. The seminar concluded with discussions on continuing efforts to spread cultural awareness and counteract rumors.



Dr. Ashraf El-Ghandour, Vice President of Alexandria University, participated in a symposium titled “Citizenship between Christianity and Islam,” featuring Dr. Ali Gomaa and Judge Monsef Suleiman. The event emphasized the importance of citizenship for societal coexistence and development. Speakers highlighted historical and contemporary perspectives on citizenship in both religions. The seminar concluded with discussions on the role of youth and the need for ongoing cultural awareness efforts.



Dr. Aya Samir Salem, a lecturer at Alexandria University’s Faculty of Agriculture, won the General Images (Engineering and Architectural) category in the scientific photography competition organized by the Academy of Scientific Research and Technology. The competition aims to promote scientific culture and professional photography, with a judging panel seeking creative and high-quality images.



The International Conference of the Association of Islamic Universities, titled "The Role of Universities in Enriching Bridges of Understanding and Peace between the East and West," was inaugurated on May 15, 2024, by key academic and religious figures such as: Professor Dr. Abdelaziz Konsowa, President of Alexandria University, His Excellency Sheikh Mohamed bin Abdel Karim Al-Issa, President of the Association of Islamic Universities, Dr. Ahmed Zayed, Director of Bibliotheca Alexandrina, and Dr. Essam El-Kurdi, President of Al-Alamein International University.



Dr. Mohamed Abdel Azim Abu El-Naga announced the start of Alexandria University's cultural and artistic season on March 26, 2022, beginning with a music concert. The season will feature a monthly cultural salon, open discussions on societal and environmental issues, and artistic performances like theater, cinema, and music, all aimed at fostering talent among students and engaging the university community.



Alexandria University hosted the award ceremony for its 13th Theatrical Arts Festival on May 22, 2024. Several faculties participated, and the top awards went to the faculties of Engineering, Dentistry, and Agriculture. Alexandria University ranking first among Egyptian universities in student activities in 2023. Dr. Manal Fouda emphasized the importance of cultural awareness and talent development, while Omar Afifi, President of the Student Union, celebrated the revival of the university's theatre scene, calling the festival a major milestone.



The Faculty of Fine Arts, Alexandria University, won the award for the best architectural project in an international competition. Karim Ali Anani, student at the Faculty of Fine Arts, Alexandria University, has won the first prize for the best architectural graduation project (Baltim Culture Complex) in the international competition "We Are Desco" among more than 350 participants and having it published in many international architectural magazines and websites, that was under the supervision of Dr. Doaa Ali Hassan, stressing the university's keenness to provide all support to its talented and creative students to raise the name of Egypt and Alexandria University in international forums.



On April 12, 2023, Dr. Abdelaziz Konsowa, President of Alexandria University, attended a collective Iftar event for international students, organized to strengthen social ties and enrich human relations. The event was attended by various university officials, cultural representatives from countries like Kuwait, Jordan, Palestine, and Malaysia, and 180 international students from Arab, Asian, and African countries. Dr. Konsowa praised the gathering for fostering cultural integration and emphasized the university's commitment to organizing the event annually, aligning with Egypt's "Study in Egypt" initiative to enhance communication and leave a positive impression on international students.



Alexandria University Participates in the Inauguration of the Bibliotheca Alexandrina International Book Fair.
Alexandria University is cooperating with the Bibliotheca Alexandrina to revive the cultural role of the city, which represents a model of multiculturalism and civilization. It emphasizes the importance of motivating students and youth to read and learn to build an informed and educated generation capable of effective participation in building the new republic.



Professor Dr. Abdelaziz Konsowa, President of Alexandria University, met with Ambassador Yang Yi, the Chinese Consul General in Alexandria, to discuss enhancing cooperation between the university and Chinese institutions. The discussion, attended by various university officials, focused on establishing partnerships in areas such as clean energy, water desalination, artificial intelligence, and the study of Arabic and Chinese languages. Ambassador Yang proposed collaboration by sending Chinese professors to teach at the Faculty of Arts and facilitating student exchanges to study Chinese language and culture in China.



Dr. Saeed Allam, Vice President of Alexandria University, met with Mr. Kim Yonghyon, the South Korean Ambassador in Cairo, to discuss enhancing academic and cultural cooperation, including the establishment of a Sejong Institute for teaching South Korean language and culture at the university. The meeting, attended by various university officials, focused on strengthening ties with South Korean universities and activating an existing memorandum of understanding. Dr. Allam expressed a desire for increased collaboration in faculty and student exchanges and joint research. Ambassador Kim acknowledged the strong relations between South Korea and Egypt and emphasized the Korean commitment to educational programs and joint research projects with Alexandria University.



Director of the Shanghai Art Collection Museum in China visits Alexandria University to Discuss Cooperation.



Professor Dr. Abdelaziz Konsowa, President of Alexandria University, attended a dialogue meeting organized by the Faculty of Law as part of the university's cultural season. The event featured guest speakers, including former Minister Dr. Nabila Makram, Dr. Abdelnasser Omar, and Dr. Nasser Loza, who discussed mental health awareness and support. Dr. Konsowa highlighted the university's commitment to collaborating with the Fahem Foundation for Psychological Support to address mental health issues and reduce stigma surrounding mental illness. He emphasized the need for societal solidarity in supporting mental health initiatives, while speakers underscored the importance of understanding and respecting the rights of individuals with mental health challenges.



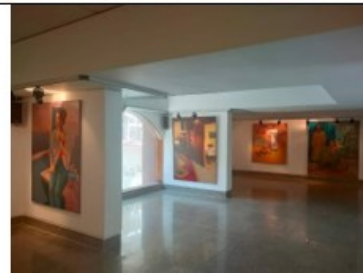
The Anti-Violence Against Women Unit at Alexandria University, under the leadership of Professor Dr. Abdelaziz Konsowa and other university officials, held a workshop titled "Dealing with Violence." The event featured theatrical performances, short films on violence, and discussions on legal penalties for such acts. Dr. Manal Fouda, the unit's Executive Director, noted that students participated in training for media campaigns against violence and promoted the National Council for Women's publications. Attendees praised the workshop's diverse activities and called for more initiatives in the future.



The "Certified Financial Awareness Trainer" program for faculty members at Egyptian universities was launched through a collaboration between the Supreme Council of Universities and the Financial Regulatory Authority. Dr. Ahmed Wahban, Dean of the Faculty of Economics and Political Science at Alexandria University, participated in the program, which aims to raise awareness of non-banking financial services among university students. He highlighted the initiative's goal of enhancing financial independence and stimulating entrepreneurship, contributing to a stronger national economy. The program, which began in February, reflects ongoing cooperation between educational institutions and financial bodies to ensure financial sustainability and informed decision-making in complex financial environments.



A training course at Alexandria University titled "Combating Financial and Administrative Corruption in the State's Administrative Apparatus, as part of the activities of the Community Service and Environmental Development Sector. The course took place on Sunday, August 11, 2024, at the Faculty building in Moharram Bey. It was delivered by Dr. Mohamed Hussein Zanaty Mohamed, a lawyer at the Central Administration for Legal Affairs at Alexandria University.



The Youth Arts Exhibition for the 60th Class (Second Edition) was inaugurated at the Mahmoud Saeed Museums Center in Alexandria. The event was attended by prominent figures such as Dr. Ali Saeed, Prof. Dr. Howaida El-Sebaey, artist Hassan Wasfi, and critic Yasser Abdel Qawy, along with faculty members, students, their families, and art enthusiasts. The exhibition showcased works by students from the Department of Painting, Faculty of Fine Arts, and was a gathering of intellectuals and art lovers from the city.



A team from Alexandria University, led by Dr. Salah Heridi, won the UNESCO competition for redesigning the Al-Nouri Mosque complex in Mosul, Iraq. Dr. Abdelaziz Konsowa, President of the university, congratulated the team following the announcement of their victory, which was chosen from 123 designs. The competition was part of UNESCO's "Revive the Spirit of Mosul" project, aimed at rehabilitating the historic city. The winning project, titled "Dialogue of the Corridors," included contributions from several team members, highlighting their collaborative efforts in architectural reconstruction.



In October 2024, The Faculty of Education at Alexandria University held a cultural awareness celebration to mark the fifty-first anniversary of the October War victory. The event featured key speakers, including Dr. Youssef El Gamal, former Minister of Education and an Air Defense Forces hero, and several military figures who participated in the war. The event, attended by faculty members, students, and military heroes, included speeches encouraging students to seek knowledge and resist misinformation. The ceremony concluded with the honoring of military heroes.



In September 2024, Alexandria University organized field trips for students to the Egyptian Air Force weapons exhibition in New Alamein City and the Ras El Tin Naval Base, as part of an initiative to foster national awareness and strengthen values of belonging. Supported by University President Dr. Abdelaziz Konsowa and in collaboration with the People's Defence Forces, the students observed advanced military systems and weaponry, showcasing the development of Egypt's Armed Forces. The visits provided insights into the roles of the Air Force and Navy in securing Egypt's borders. Colonel Mohamed Maher, Director of Military Education at the university, emphasized the significance of these trips in promoting national pride and educating students about the military's critical role in maintaining security and stability.



In October 2024, The Faculty of Economics and Political Science at Alexandria University celebrated the anniversary of the October War victories with a symposium titled "The Great Lessons of the October and Attrition Wars: The Operation to Destroy the Port of Eilat as a Model." Led by Dean Dr. Ahmed Wahban and featuring lectures by Major General Captain Omar Ezz El-Din and Captain Mohsen Mukhtar El-Gohary, the event highlighted the heroism and sacrifices of Egypt's soldiers. The speakers discussed key military achievements, such as the destruction of the Israeli destroyer Eilat, and emphasized the importance of national pride, hard work, and dedication. The symposium concluded with a tribute to the guest speakers in the presence of faculty members and students.



In the framework of empowering individuals with disabilities, particularly those with visual impairments, to visit museums and interact with their contents, efforts are being made to facilitate interaction for visually impaired individuals with various types of exhibits. This includes the implementation of artistic models similar to the original pieces, suitable for using a simulation approach through the sense of touch. These models will allow for the identification of museum items through tactile exploration and descriptions using appropriate sensory means prepared for this purpose.



The Faculty of Fine Arts at Alexandria University collaborated with the Art Therapy and Development Foundation to support and empower children with disabilities. They organized a workshop titled "Spring Arts," allowing these children to practice artistic performance and explore their creativity under the supervision of faculty members. The workshop began with a visit to the college museum, where the children learned about its collections from the curator, Ms. Abeer Shalaby. The children enjoyed the experience and the opportunity for artistic practice at the university.



As part of the collaboration between the Faculty of Fine Arts and Alexandria Governorate, a role has been established to participate in the judging committee for a competition organized by Alexandria Governorate among neighborhoods and the city center of Borg Al Arab to develop public squares and gardens within the governorate. This includes attending coordination meetings related to this initiative.



Alexandria University is organizing cultural and awareness-raising events to commemorate the 50th anniversary of the October War, starting from October 1, 2023.

1. **Art Exhibition:** An exhibition titled "50 Years of Egypt's October 1973" will run from October 2 to October 12, 2023, showcasing artworks that highlight the victories of October and Egypt's modern renaissance. It will feature contributions from 31 faculty members in various artistic mediums.
2. **Cultural Competition:** A competition for students will be held in drawing, painting, poetry, short stories, journalistic articles, musical composition, and national anthems, focusing on the heroism of the Egyptian army during the October War. Prizes will be awarded for the top three entries in each category.



Artistic and Aesthetic Collaboration for the Development and Enhancement of the Facility and the Club's Walls. The objective is to aesthetically improve the club and enhance its facilities, providing a proposal for development that meets functional needs. Accordingly, a committee has been formed, consisting of the following members, to carry out the required tasks.




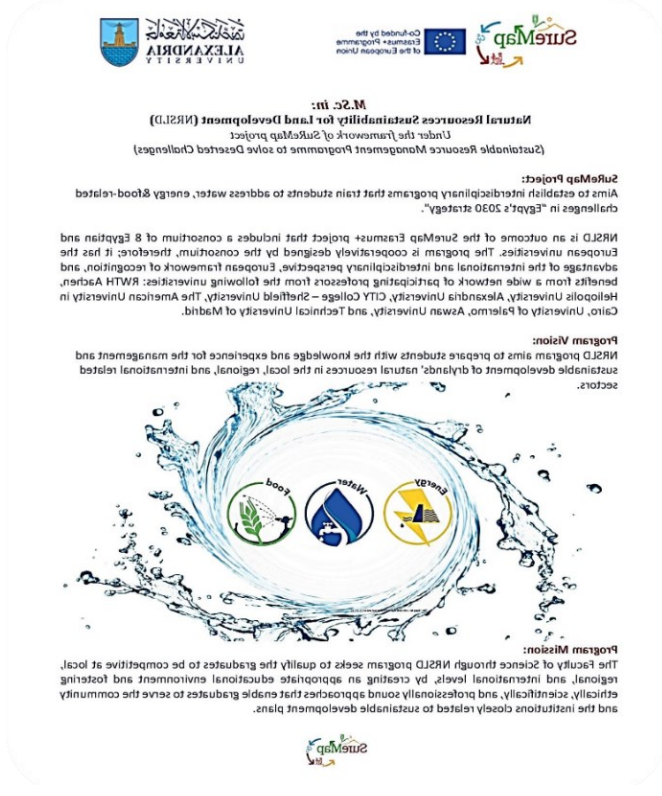
The Project for the Development of the Alexandria Beaches System aims to enhance the quality of services at Alexandria's beaches through collaboration with the Faculty of Fine Arts at Alexandria University. The project focuses on designing standardized units, such as restrooms, changing rooms, and food kiosks, using weather-resistant materials. Key objectives include standardizing the external appearance of the units, identifying suitable locations based on beach characteristics and size, determining the number of units according to beach area and visitor density, ensuring materials used are appropriate for coastal conditions, and considering the project's visual identity. Top of Form Bottom of Form



In the context of developing the adjacent land as an open area for recreation (under the jurisdiction of the governorate), there is a need for elements that reinforce the identity of the museum and the surrounding developed heritage area. Accordingly, a request has been made for collaboration with the Faculty of Fine Arts at Alexandria University to create an artistic sculpture that expresses this identity and serves as a sign pointing to the museum from Fouad Street, through a team of researchers from the faculty members.

Number of university sustainability program(s) with international collaborations



	
<p>Smart Environmental Management of Climate Change in collaboration with Catania University, Italy.</p> <p>AdapTm-Erasmus project</p> <p>The participating countries and Universities: Italy, Greece, Lithuania, Slovenia, Egypt (Alexandria University, Suez Canal University, South Valley University, Arab Academy for Science and Technology and Maritime Transport).</p>	<p>Natural Resources Sustainability for Land Development in collaboration with Aachen University, Germany.</p> <p>Erasmus+ Project, European Union</p> <p>The participating countries and Universities: Germany (RWTH Aachen), Egypt (Alexandria University, Heliopolis University, the American University in Cairo, Aswan University), Cyprus (CITY College – Sheffield University), Italy (University of Palermo), Spain (Technical University of Madrid).</p>



Sustainable Management of Fisheries and Aquaculture Science, in collaboration with University of Aveiro, Portugal.

Erasmus+ Project, European Union

The participating countries and Universities: Portugal (University of Aveiro), Italy, Croatia, Slovenia, Egypt (Alexandria University, Aswan University, Matrouh University, Arab Academy for Science and Technology and Maritime Transport).

Euro-Mediterranean Master Of Neuroscience And Biotechnology In Collaboration With Bordeaux University, France.

The participating countries and Universities:

France (Université de Bordeaux, Aix-Marseille Université); Morocco (Université Cadi Ayyad à Marrakech, Université Sultan Moulay Slimane de Béni Mellal); Tunisia (Université de Tunis - El Manar); Lebanon (Université Saint-Esprit de Kaslik); Poland (Jagiellonian university in Kraków); Egypt (Alexandria University)

Évaluation de la formation
La formation correspond à 20 ECTS / semestre, répartis et validés comme suit:

- 20 ECTS correspondant au suivi des cours et séminaires obligatoires. Ils seront validés par l'évaluation des productions relatives aux différents apprentissages proposés sous forme de devoirs rendus en ligne et d'examens ponctuels individuels et collectifs, et par participation effective de l'étudiant au travail collaboratif.
- 20 ECTS correspondant au suivi des cours et séminaires optionnels. Ils seront validés par l'évaluation des productions relatives aux différents apprentissages proposés sous forme de devoirs rendus en ligne, d'examens à l'ère et à l'écrit.

Conseil d'honneur

En partenariat avec l'Agence universitaire de la Francophonie, l'Université d'Alexandrie lance un appel à candidature pour son Master de Neurobiologie en FOMD (Formation Ouverte et à Distance) consacré à l'enseignement de la Neurobiologie, la Neurophysiologie, les Neurosciences cognitives et intégratives.

Ce Master se déroule en deux ans successifs. Les diplômés de cette formation recevront un diplôme de Neurobiologie de l'Université d'Alexandrie.

Cet enseignement est ouvert aux candidats titulaires d'une licence des Sciences de la Vie, d'un diplôme de neurobiologie, ou personnes ayant une licence médicale ou d'une formation équivalente universitaire ou professionnelle.

L'admission est soumise à l'approbation de la santé et de la recherche médicale et fondamentale (formation continue) ayant validé leur dernier diplôme depuis moins de 10 ans.

L'objectif principal du Master (M1 et M2) est de transmettre des connaissances théoriques, de former les étudiants à la recherche et par la recherche et de développer les qualités indispensables d'une insertion professionnelle.

Cette approche permet aux apprenants d'acquiescer des compétences pratiques et un savoir-faire technique dans l'expérimentation, l'organisation, la réalisation et la communication d'un travail de recherche auprès de spécialistes multidisciplinaires du public.

La formation s'effectue sur la plateforme d'enseignement à distance
<http://www.univ-alexandrie.edu.eg/formation>
Info de contact:
Email: formation@univ-alexandrie.edu.eg

Programme et Contenu

Cette plateforme est riche d'outils de communication, d'organisation et de partage. Elle offre des outils interactifs et simples qui rendent son utilisation facile et conviviale. L'apprenant accède aux enseignements via Internet, à l'aide d'un simple navigateur web, à distance ou sur son lieu de travail, à toute heure et pour toutes les disciplines.

L'apprentissage pédagogique favorise un accompagnement personnalisé, assuré par des tuteurs qui assurent les apprentissages et offrent à l'étudiant des objectifs liés à la formation. Les apprenants travaillent en mode collaboratif sur une durée de 4 semestres maximum sur des situations d'apprentissage contextualisées aux cours de neurobiologie fondamentale.

L'enseignement en ligne est organisé en modules de trois semaines entières par deux tuteurs par module. Pour la durée des deux ans d'études, cette formation comprendra 200 heures de travail autonome et 240 heures de travail supervisé, soit un total de 440 heures de travail.

Pour obtenir le Master (M1 et M2) de Neurobiologie, l'apprenant doit suivre les deux années universitaires de cette formation. Des travaux pratiques sont obligatoires en deuxième et en quatrième semestres, sous la forme de stages dans les laboratoires des enseignants et d'organismes de recherche. Les TP peuvent être gérés par l'étudiant dans son université d'origine ou de résidence.

Pour faciliter l'insertion professionnelle à distance de l'AUF, le candidat doit réaliser dans un pays francophone du Sud ou du Nord de l'Afrique et par ailleurs y demeurer pendant toute la durée de la formation. Il doit en faire la demande et obtenir la validation de l'AUF de la région FOMD.

L'admission des candidats est prononcée par le comité pédagogique de la formation, après examen du dossier de candidature et de la lettre de motivation. Une entente bilatérale sera établie avec le candidat. **Aucun étudiant ne peut être admis sans avoir été examiné par le comité pédagogique.**

L'écrit de la formation est basé à 80% pour chaque année et 80% de crédit pour l'inscription aux modules théoriques du master. Le montant de la formation d'étude à distance de l'AUF est de 850 € pour chaque année.

Semestre 1
(Cours NE 603 à NE 607 obligatoires - 20 ECTS)

Code	Intitulé du cours	Crédits
NE 603	Neurologie et Signalisation Cellulaire et Moléculaire	5
NE 604	Neurophysiologie	5
NE 605	Neuroanatomie fonctionnelle	5
NE 607	Biologie du Développement	5

Semestre 2
(Cours NE 608 à NE 612 obligatoires - 20 ECTS)

Code	Intitulé du cours	Crédits
NE 608	Initiation à la Biochimie	4
NE 609	Neurosciences Comportementales	4
NE 610	Formation à l'expérimentation animale	2
NE 611	Pharmacologie conceptuelle fondamentale	4
NE 612	Statistiques	2

Semestre 3
(Cours NE 613 à NE 617 obligatoires - 20 ECTS)

Code	Intitulé du cours	Crédits
NE 613	Neurosciences cognitives	5
NE 614	Neurosciences cognitives	5
NE 615	Neurosciences cognitives	5
NE 616	Neurosciences cognitives	5
NE 617	Neurosciences cognitives	5

Semestre 4
(Stage obligatoire - 20 ECTS)

Code	Intitulé du cours	Crédits
NE 618	Stage obligatoire	20

Pour toute information supplémentaire:
formation@univ-alexandrie.edu.eg
www.univ-alexandrie.edu.eg/formation

French Master of Neurobiology in collaboration with Agence Universitaire de la Francophonie (AUF).

The participating countries and Universities: France (Bordeaux University, Tours University, Vichy Clermont de l'osteopathie), Morocco (Kady Ayad University, Private University of Marakesh)

- 1 Exchange visits of lecturers and researchers
- 2 Student Mobility
- 3 Joint study programs
- 4 Joint research programs
- 5 Collaborative symposia, and conferences
- 6 Pedagogical Experiments
- 7 Joint Projects
- 8 Knowledge Transfer
- 9 Community Service
- 10 Sustainable Development



Examples of ongoing International Collaboration and Partnerships by collaborating with other countries and institutions to share knowledge, technology, and expertise on GHG emission reduction.



Manchester University	Joint degree	Medicine	2020
Manchester University	Joint degree	Dentistry	2022

MANCHESTER
1824
The University of Manchester

FACULTY OF MEDICINE
جامعة الإسكندرية
ALEXANDRIA UNIVERSITY

**THE JOINT AWARD OF MBCHB/MBBCH
BETWEEN
SCHOOL OF MEDICAL SCIENCES,
FACULTY OF BIOLOGY, MEDICINE AND HEALTH,
UNIVERSITY OF MANCHESTER
AND
FACULTY OF MEDICINE
ALEXANDRIA UNIVERSITY**

**STARTING ACADEMIC YEAR
2021/2022**

FIVE ACADEMIC YEARS:

- The joint programme curriculum & assessment match the Manchester programme.
- Programme is delivered in Alexandria and managed by both Alexandria & Manchester Medical Faculties.
- Graduation certificate is signed by both Alexandria and Manchester Universities.

ANNUAL FEES 15000 \$.

ADMISSION REQUIREMENTS :

- Applicants for this programme should meet existing Egyptian National Entry requirements to study Medicine at the University of Alexandria or any other Egyptian Governmental University and be further selected based on the Joint programme admission requirements.

**FOLLOW
US**

Further information & Online application will be
available soon
www.alexmed.edu.eg

For enquiries, contact:
vd_student@alexmed.edu.eg



MANCHESTER

 1824

 The University of Manchester



 FACULTY OF MEDICINE

 كلية الطب



MANCHESTER

 1824

 The University of Manchester



 FACULTY OF MEDICINE

 كلية الطب



LIBRARY IN MANCHESTER BUILDING



COMPUTER LAB IN MANCHESTER BUILDING

MANCHESTER

 1824

 The University of Manchester

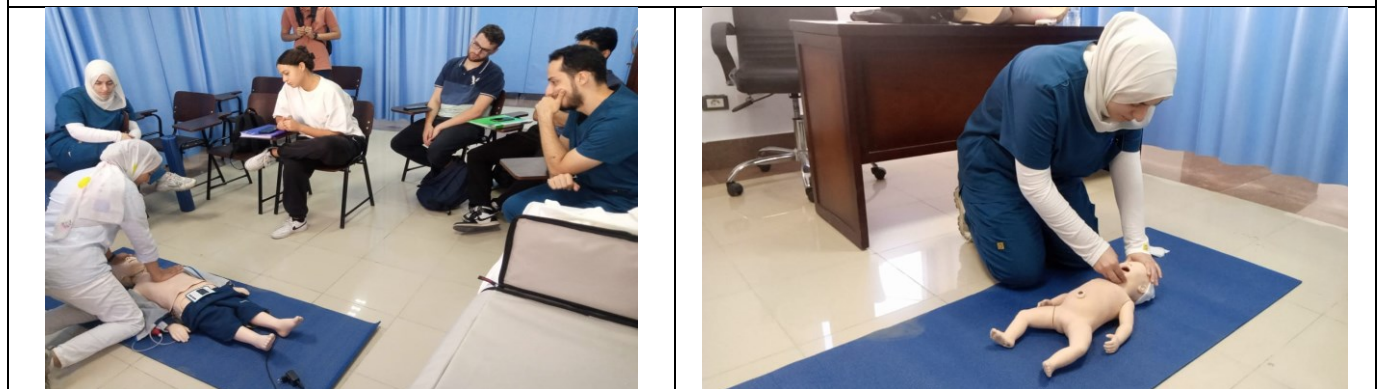
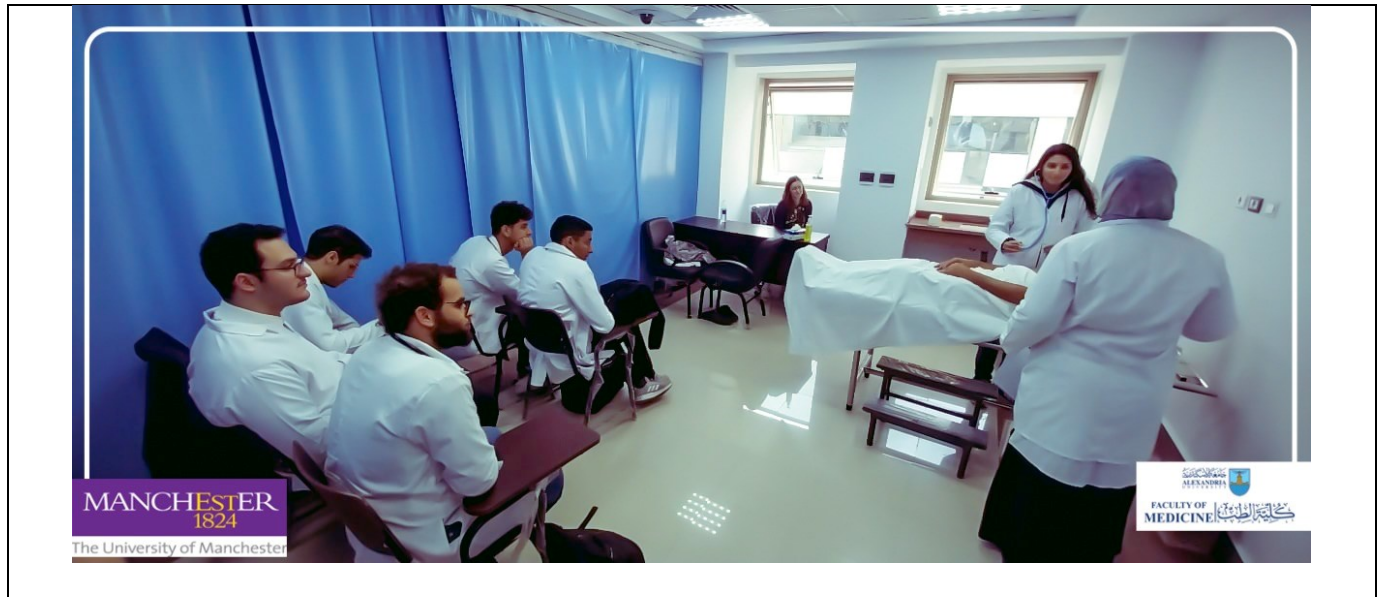


 FACULTY OF MEDICINE

 كلية الطب





PRACTCAL LAB SESSIONS



STAFF DEVELOPMENT WORKSHOPS

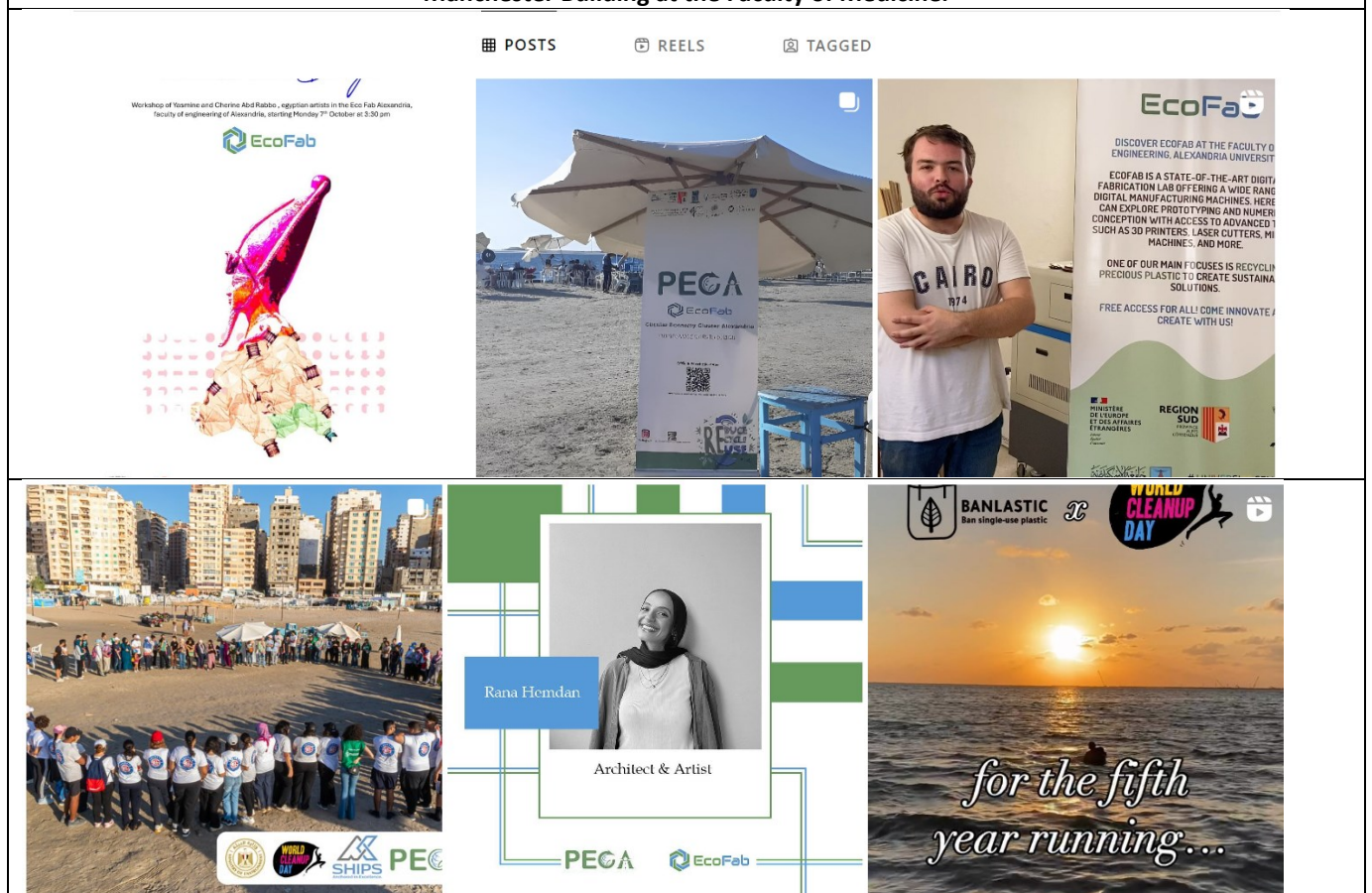


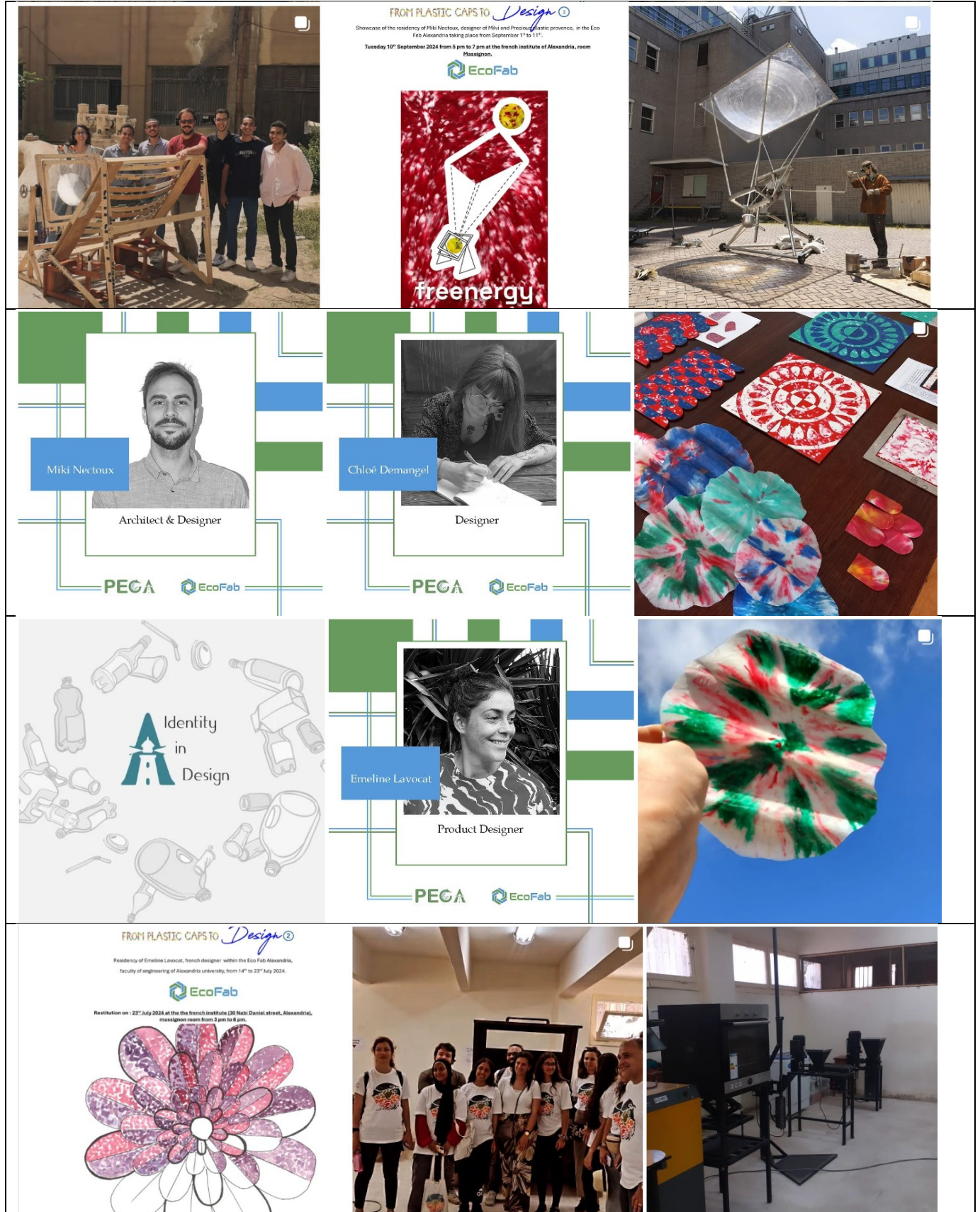
Alexandria University signs the first joint scientific degree for the Bachelor of Medicine and Oral and Dental Surgery with the University of Manchester- UK. The programme saw its first cohort begin their studies in 2021.

			
East London University	MOU	General	2023
East London University & Alexandria National University	MOU	General	2023
Partnership Agreement of Alexandria University with United Kingdom.			
			
UNIVERSITY OF ESSEX	MOU	GENERAL	2023
School of Computer Science and Electronic Engineering Essex University	Dual Degree	Engineering	2023
Essex Business School Essex University	Dual Degree	Business	2023
Essex University	Dual Degree	Political Sciences	2024
Essex University	Dual Degree	Graduate Studies & Research	2023
Partnership Agreement of Alexandria University with United Kingdom			
Southampton University	MOU	General	2021
Business School Southampton University	Progression Agreement	Business	2024
University of Strathclyde	MOU	Tourism & Hotels	2022
University of Victoria	MOU	Pharmacy Business	2023
Partnership Agreement of Alexandria University with United Kingdom			



The European Union project to convert several buildings of Alexandria University into green buildings by reducing energy consumption in addition to establishing solar-powered power stations: the Specialized Scientific Programs Building at the Faculty of Engineering, the Faculty of Education Building within the Literary Colleges Complex, and the Manchester Building at the Faculty of Medicine.







Horaires d'ouverture de l'Eco Fab Alexandria
Opening hours of the Eco Fab Alexandria
ساعات العمل

Sunday – الأحد :	from 10 am → 5 pm
Monday – الاثنين	from 10 am → 5 pm
Tuesday – يوم الثلاثاء	from 10 am → 5 pm
Wednesday – الأربعاء	from 10 am → 5 pm
Thursday – يوم الخميس	On demand - على الطلب
Friday – الجمعة	Closed - مغلق
Saturday – السبت	Closed - مغلق

Contacts :
Jordan Anceel - jordan.anceelpro@gmail.com - 01120841868









Design
Restitution de la résidence artistique de Chloé Demangel
au sein de l'Eco FAB Alexandrie
EcoFab
5 mars, 4:00 pm - Salle Massignon, à l'Institut Français d'Alexandrie



Eco Fab Alexandria

The Eco Fab is a fab lab dedicated to plastic recycling in Alexandria, Egypt and part of PECA project (Circular economy hub in alexandria).

Participating Universities

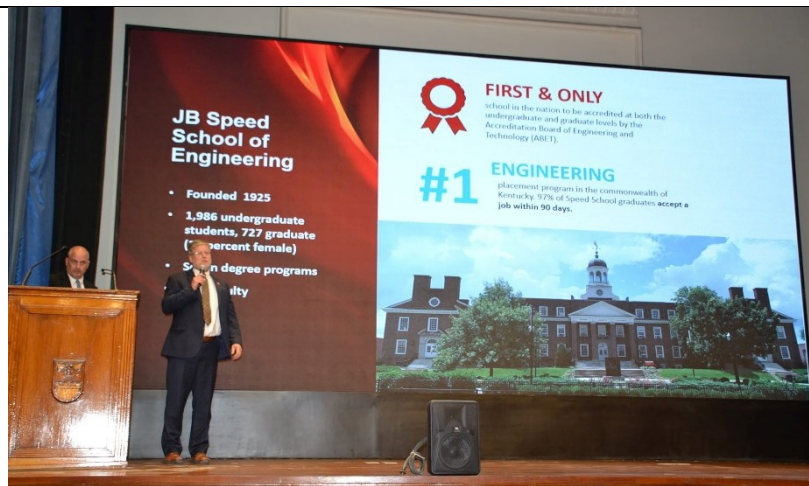
Egypt: Alexandria University
France: Université du Littoral
Greece: University of the Aegean
Italy: Università degli Studi di Palermo
Egypt: Arab Academy for Science, Technology, and Maritime Transport
Tunisia: University of Sousse
Tunisia: University of Monastir
Jordan: University of Jordan
Jordan: Al-Bayt University



BLUE-ERA: Curriculum Development for the Sustainable Blue Economy Study toward the achievement of Ocean Decade in Tunisia, Egypt, and Jordan. ERASMUS-EDU-2023-CBHE-STRAND-2 (Erasmus+)



An agreement signed between Alexandria University and the University of Louisville (USA) under the umbrella of Alamein International University (AIU) to offer a program that grants a dual degree in bioengineering, computer engineering, and computer science



Alexandria University and Louisville University Celebrate Graduation of 2+2 Program First Batch, Based on their Cooperation Agreement (July 2024)


BE@UofL: Outreach
International Internship Program with AIU (Summer 2024)

Project Title: In vitro testing of a Fontan circulatory support device

Supervisor: Dr. Guruprasad Giridharan, BioMEMS & Cardiovascular mechanics Lab, Professor and Associate Chair of the Department of Bioengineering @ UofL

Project Summary: Nada Awad joined the BioMEMS & Cardiovascular mechanics Lab @ UofL as an intern for Summer 2024. She is actively working on experiments for developing a cavopulmonary assist (CPA) pump, which will help people with the most threatening type of congenital heart defects which is a univentricular heart and people with Fontan circulation. A mock circulation model of Fontan patients was developed in order to test the Fontan CPA pump in vitro. Nine different dysfunctional conditions of Fontan patients were simulated based on literature values and clinical input. Then, tests were done to gather hemodynamic data and evaluate the circulatory response to high volume, low pressure flow using the CPA pump. Another mock circulatory loop is used to measure the hydraulic performance of the Fontan CPA pump. The CPA pump will convert the single ventricle anatomy of Fontan circulation into a double ventricle physiology.

Logos: ALEXANDRIA UNIVERSITY, AIU ALAMEIN INTERNATIONAL UNIVERSITY, UNIVERSITY OF LOUISVILLE, JB. SPEED SCHOOL OF ENGINEERING, ISSTBE

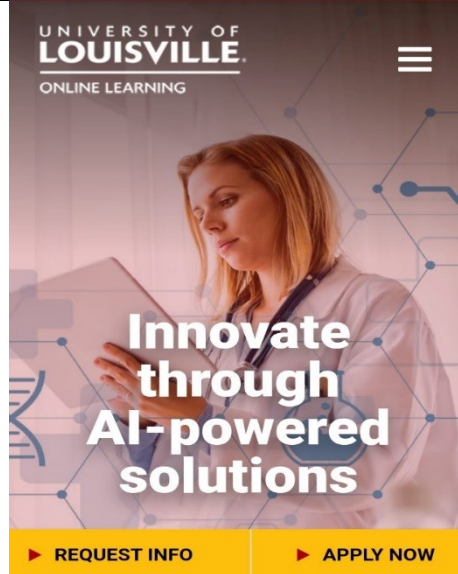




Alexandria University's Faculty of Engineering Students win First Places in Annual Summer Training Competition at University of Louisville, USA. The summer training program comes within the framework of the distinguished partnership between Alexandria University and the University of Louisville, USA, over the past years, which includes the partnership in summer training in research laboratories at the University of Louisville, and the partnership in the 2+2 bachelor's programs to grant double degrees in computer science and engineering, and biomedical engineering majors. This year was the graduation of the first group that joined the University of Louisville through this partnership in the field of biomedical engineering, numbering five students.



In 12/14/2023, Students from the Faculty of Engineering at Alexandria University, enrolled in the (2+2) joint degree program with the University of Louisville, excelled in a graduation projects competition. Sarah Ihab from Biomedical Engineering secured first place, while Samuel Ibrahim, Youssef Bekhit, and Omar Salem achieved third place. The program allows students to earn dual degrees in either Biological Engineering or Computer Science and Engineering, with the first two years spent at Alexandria University and the final two years at Louisville.



Alexandria University announce an online program about "Applications of Artificial Intelligence in Medicine" in cooperation with Louisville University. This program is online through the Department of Bioengineering at the university in partnership with the Department of Computer Science and the College of Public Health and Data Science, and aim of provide the students the capabilities of effective analysis of medical problems and interpretation of complex data through modern technologies through a study program of less than two semesters.



The signing of a cooperation protocol between the Faculty of Engineering and Siemens Healthcare Egypt, aimed at enhancing and developing cooperation between the two sides in the scientific and academic fields.



The Minister of Higher Education witnesses the signing of a cooperation agreement between Alexandria National University and the University of East London



President of Alexandria University, signed a cooperation agreement with Kassel University in Germany. The agreement aims to establish joint degrees in architectural engineering, facilitate student exchanges, and organize courses and workshops. The agreement, attended by key university officials, is part of Alexandria University's strategy to build partnerships with distinguished international universities. It will last for three years and includes plans for joint research, funded by the German DAAD Foundation, and the establishment of a GIS lab at Alexandria University. Seven students will travel to Germany for four months and seven German students being hosted at Alexandria University. Additionally, a GIS (Geographic Information Systems) lab will be established at Alexandria University.

Description:

Smart Environmental Management of Climate Change in collaboration with Catania University, Italy

2-year Postgraduate Master program (4 semesters).

AdapTm-Erasmus project: The participating countries and Universities: Italy, Greece, Lithuania, Slovenia, Egypt (Alexandria University, Suez Canal University, South Valley University, Arab Academy for Science and Technology and Maritime Transport).

Program start date: year 2019

Link: <https://emuni.si> › ADAPTM-handout_2_Mod

Sustainable Management of Fisheries and Aquaculture Science, in collaboration with University of Aveiro, Portugal.

2-year Postgraduate Master program (4 semesters).

(Erasmus+ Project, European Union): The participating countries and Universities: Portugal (University of Aveiro), Italy, Croatia, Slovenia, Egypt (Alexandria University, Aswan University, Matrouh University, Arab Academy for Science and Technology and Maritime Transport).

Program start date: year 2021

Link: <http://fishaqu.eu>

Natural Resources Sustainability for Land Development in collaboration with Aachen University, Germany

2-year Postgraduate Master program (4 semesters).

Erasmus+ Project, European Union: The participating countries and Universities: Germany (RWTH Aachen), Egypt (Alexandria University, Heliopolis University, the American University in Cairo, Aswan University), Cyprus (CITY College – Sheffield University), Italy (University of Palermo), Spain (Technical University of Madrid).

Program start date: year 2022

Link: <https://suremap.eu>

<https://www.facebook.com/suremapproject> <https://www.linkedin.com/company/suremap-project>

Euro-Mediterranean Master of Neuroscience and Biotechnology in Collaboration with Bordeaux University, France.

2-year Postgraduate Master program (4 semesters).

The participating countries and Universities: France (Université de Bordeaux, Aix-Marseille Université); Morocco (Université Cadi Ayyad à Marrakech, Université Sultan Moulay Slimane de Béni Mellal); Tunisia (Université de Tunis - El Manar); Lebanon (Université Saint-Esprit de Kaslik); Poland (Jagiellonian university in Kraków); Egypt (Alexandria University)

Program start date: year 2012

Link: <https://Alexu.Edu.Eg/Index.Php/En/Faculties-Centers/2016-02-03-10-09-06/Scientific-Laboratories-Equipment-Unit-Of-Alexandria-University/58-Academics/56-Euro-Mediterranean-Master-In-Neuroscience-And-Biotechnology>

French Master of Neurobiology in collaboration with Agence Universitaire de la Francophonie (AUF)

2-year Postgraduate Master program (4 semesters).

The participating countries and Universities: France (Bordeaux University, Tours University, Vichy Clermont de l'osteopathie), Morocco (Kady Ayad University, Private University of Marakesh)

Program start date: year 2012

Link: <https://sci.alexu.edu.eg/index.php/ar/2016-09-26-08-27-56/1191-2019-2018>

Alexandria University signs the first joint scientific degree for the Bachelor of Medicine and Oral and Dental Surgery with the University of Manchester- UK

On May 2023, Dr. Abdelaziz Konsowa, President of Alexandria University, and Dr. Graham Lord, Vice President of the University of Manchester in the United Kingdom and Dean of the University's Medical Sector, signed an agreement for the first joint degree program in the Arab Republic of Egypt for a Bachelor of Medicine and Oral and Dental Surgery between the two universities, in the presence of Dr. Nancy Roswell, President of the University of Manchester and President of the British Russell Universities Alliance, Ambassador / Sherif Kamel, Ambassador of the Arab Republic of Egypt to the United Kingdom, Dr. / Rasha Kamal, Cultural Attache and Director of the Educational Mission in the United Kingdom and Ireland, and from the English side, Dr. Tony Hegerty, Dean of the College of Medical Sciences, and Dr. Nicholas Silicat, Dean of the College of Dentistry at the University of Manchester, and Professor Shamsa Farouk, International Relations Officer at the University of Manchester, and from the Egyptian side, Dr. Ahmed Adel Abdel Hakim, Dean of the College of Dentistry, and Dr. Amin Malti, responsible for the file of international agreements at Alexandria University with British universities, d. Nevine Bakri, Vice Dean of the College of Dentistry for Education and Student Affairs.

<https://alexu.edu.eg/index.php/en/important-news/8066-alexandria-university-signs-the-first-joint-scientific-degree-for-the-bachelor-of-medicine-and-oral-and-dental-surgery-with-the-university-of-manchester-uk>

<http://www.med.alexu.edu.eg/en/manchester-program/>

<http://www.med.alexu.edu.eg/en/manchester-skill-lab/>

<http://www.med.alexu.edu.eg/en/manchester-students-activities/>

<https://www.bmh.manchester.ac.uk/stories/egyptian-medical-education/>

- **BLUE-ERA: Curriculum Development for the Sustainable Blue Economy Study toward the achievement of Ocean Decade in Tunisia, Egypt, and Jordan. ERASMUS-EDU-2023-CBHE-STRAND-2 (Erasmus+) P.277**
- Agreements with AU In Numbers (mentioned in Number of Courses/Subjects Related to Sustainability Offered- P118)

The European Union project to convert several buildings of Alexandria University into green buildings by reducing energy consumption in addition to establishing solar-powered power stations

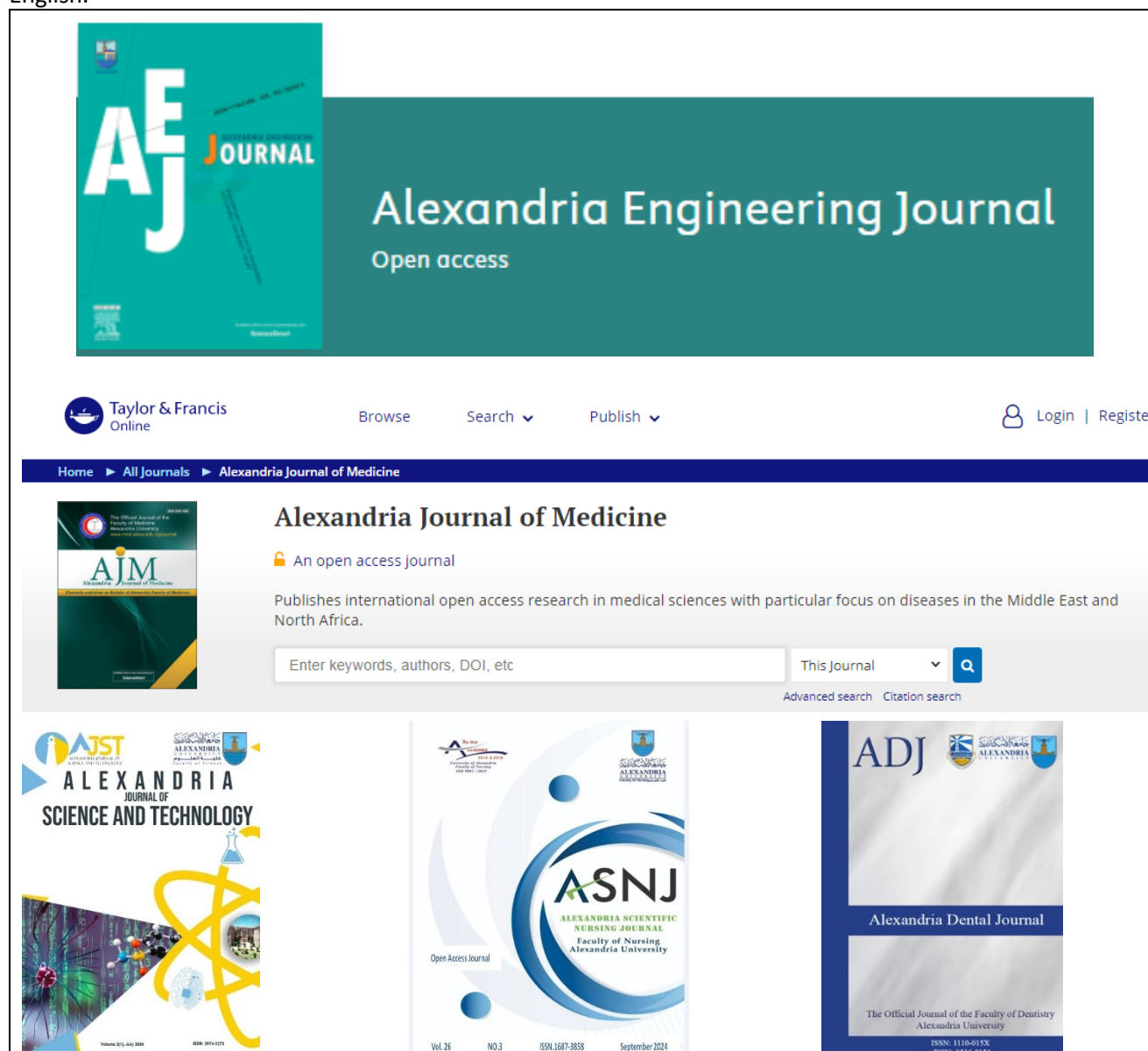
- In light of the keenness to rationalize energy consumption in university buildings and the general trend to increase the percentage of reliance on new and renewable sources in electricity production, and in cooperation with the European Union, the European Union funding was accepted for a project to transform some buildings of Alexandria University into green buildings by reducing energy consumption in addition to constructing Electrical power stations powered by solar energy on the roofs of some qualified faculty and institute buildings suitable for this purpose.
- Accordingly, three buildings belonging to the university's faculties were chosen as a first stage to study the feasibility of applying the project to them in terms of the building's ability to bear the weight of solar stations to produce electricity, as well as studying the spaces available for building these stations and the extent of those spaces' exposure to solar radiation throughout the day. The opportunities available to reduce reliance on usual energy sources were also studied in terms of using more efficient lighting, increasing reliance on natural lighting during the day, and reducing the building's air conditioning loads.
- After research and review, the specialized scientific programs will be developed in the Faculty of Engineering, the Faculty of Education building within the Literary faculties Complex, and the Manchester Building in the Faculty of Medicine, which were chosen due to the recent construction of these buildings and their ability to accommodate the proposed development in terms of the electrical load network and the development of air conditioning systems and water heating systems used in laboratories and bathrooms.
- These buildings were visited and their suitability for the project was evaluated. The current electricity consumption and the possibility of covering these loads with electricity generated from solar energy were studied. The roof areas facing south and suitable for establishing solar stations were inspected and raised. The available roof area in the Specialized Scientific Programs Building at the Faculty of Engineering, Alexandria University, was 2,400 square meters. It can be used to create a solar station with an area of 1,000 square meters with a capacity of **120 kilowatts**, so that the station will be able to generate **360 megawatt hours** of electricity annually. As for the Faculty of Education building, the total area of the building was 4,000 square meters, and the appropriate spaces for building the station accommodate 1,000 square meters of solar cells with a capacity of **120 kilowatts**, so that the station is capable of generating **360 megawatt hours** of electricity annually, and for the Manchester building at the Faculty of Medicine, 1,200 square meters is capable of accommodating a solar power station with an area of 800 square meters. With a capacity of **96 kilowatts**, the station is capable of generating **288 megawatt hours** of electricity annually. These stations also contribute to reducing carbon dioxide emissions by a total of approximately 214 tons annually. The total expected cost of the project is about 300,000 euros.
- The time to recover the capital was estimated through providing the electricity consumed in the three buildings for approximately seven years from the date the stations entered service at full capacity, considering the periodic maintenance necessary to continue the station's operation with the greatest possible efficiency. Detailed reports were also prepared for each building and submitted to the general coordinator of the project, for review and to take the necessary steps to

start this vital project, which is an important step in strengthening the efforts of the Egyptian state towards switching to renewable energy and reducing dependence on fossil fuels that have a negative impact on the environment.

Fab Lab Project (Alexandria University) mentioned previously in P.122

Scientific Journals and Periodicals

Alexandria University publishes a number of scientific journals and periodicals aimed at disseminating the research of faculty members both within and outside the college. These publications also include summaries of master's and doctoral theses, address topics of common interest, and respond to inquiries related to various fields of study. The university's publications are edited by a team of experts and specialists in this regard. The total number of journals published by the faculties of Alexandria University is 39, issued in both Arabic and English.



The screenshot displays the website for the Alexandria Engineering Journal (AEJ), an open access journal published by Taylor & Francis Online. The header features the journal's title and the Taylor & Francis Online logo. Below the header, there is a navigation bar with links to Home, All Journals, and Alexandria Journal of Medicine. The main content area highlights the Alexandria Journal of Medicine (AJM), an open access journal that publishes international open access research in medical sciences with a particular focus on diseases in the Middle East and North Africa. A search bar is provided for entering keywords, authors, or DOI. Below the main content, there are four journal covers displayed: AJST (Alexandria Journal of Science and Technology), ASNJ (Alexandria Scientific Nursing Journal), and ADJ (Alexandria Dental Journal). The ADJ cover also mentions it is the official journal of the Faculty of Dentistry, Alexandria University.



Examples of scientific journals published by Alexandria University.

Number of sustainability community services project organized and/or involving students



1. Medical and community services convoy

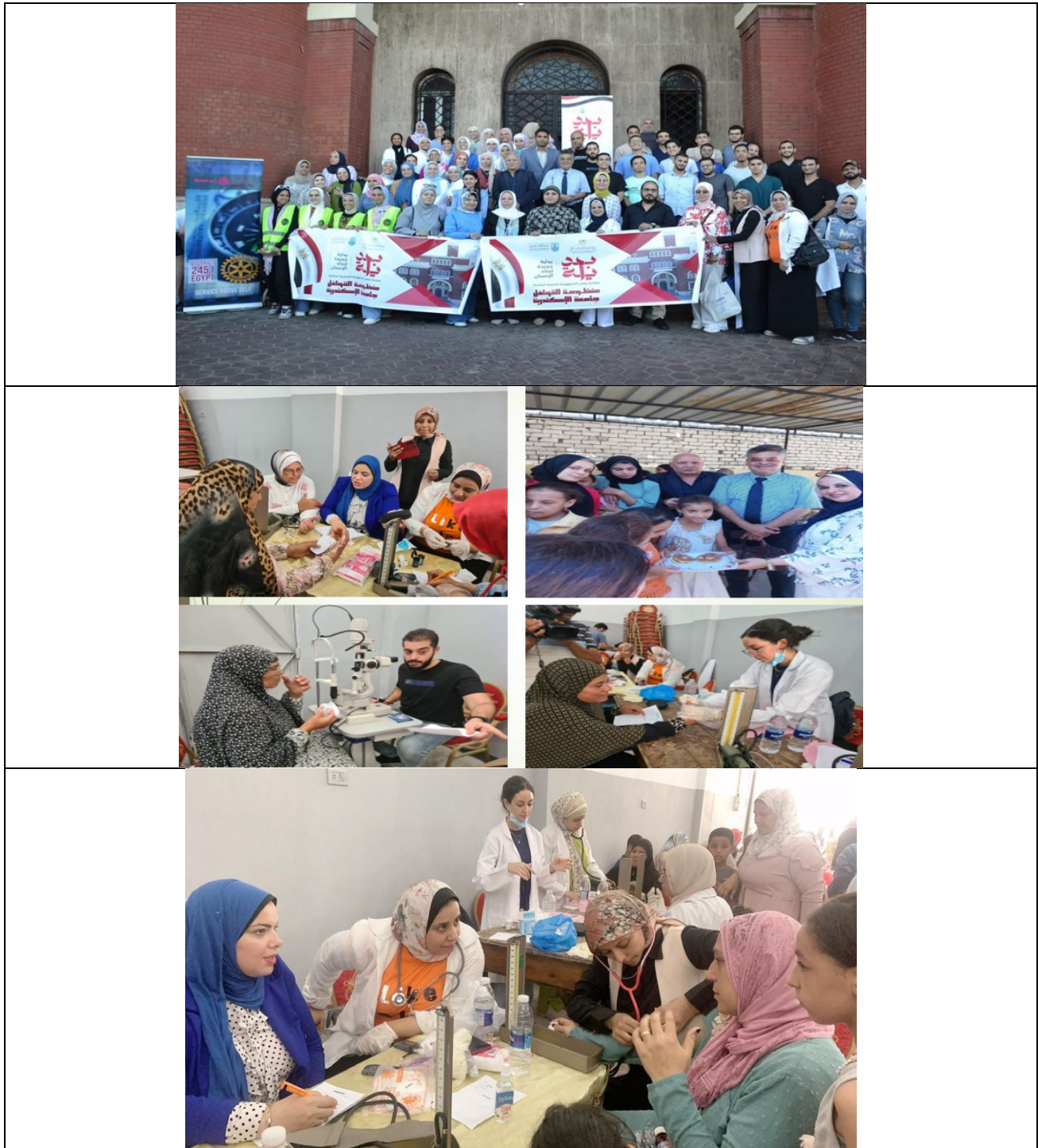
Project name	Participants	Project duration	Project area	Number of beneficiaries
Medical and community services convoy	33	One Day 28/10/2020	Dar el tahel mahny El saiuf	445
Medical and community services convoy	37	One Day 9/12/2020	King Mariut (kiswt el shataa)	500
Medical and community services convoy	66	One Day 9/7/2021	Dar El hadia El saiuf	168
Medical and community services convoy	66	One Day 5/8/2021	Baheg Village	417
Medical and community services convoy	57	One Day 6/8/2021	Abo Homos	345
Medical and community services convoy	81	One Day 22/9/2021	Baheg Village 2	650
Medical and community services convoy	61	28/9 – 1/10/2021	Matroh	727
Medical and community services convoy	55	One Day 14/10/2021	Alex stadium	217
Medical and community services convoy	57	One Day 5/11/2021	Ganauty Area	467
Medical and community services convoy	104	8 – 12/11/2021	Siwa	2613
Medical and community services convoy	62	One Day 19/11/2021	Zawiya Abdel Qader	651
Medical and community services convoy	65	One Day 9/2/2022	El Nahda – Borg El Arab	761
Educational, and sports convoy	Faculty of Education, Sport Education	12/02/2022	Village “15” Borg AL-Arab	70

A veterinary agricultural educational convoy	Faculty of Veterinary Medicine, Agriculture, & Education	13/02/2022	The village of Al-Ula in Borg El Arab City	85
Medical and community services convoy	56	One Day 4/3/2022	Ard El Bangar	753
Medical and community services convoy	69	One Day 12/3/2022	Abes 8	818
Medical and community services convoy	47	14/3 – 18/3/2022	Matroh - Siwa	1690
Community services convoy (Ramadan Convoy)	Faculty of Medicine	2-5/4/2022	King Mariout	1850
Medical and community services convoy	52	One Day 19/5/2022	King Mariout	73
Medical and community services convoy	58	One Day 20/5/2022	El Delengat Area	683
Medical and community services convoy	Faculty of Medicine and dentistry and nursing, the Higher Institute of Health Faculty of Science	21-28/05/2022	Abis 7	250
Medical and community services convoy		One Day 4/8/2022	Al-Akreisha in Beheira Governorate	2377
Medical and community services convoy		One Day 2/9/2022	King Mariout	775
Medical and community services convoy		One Day 17/9/2022	Abes 7	603
Medical and community services convoy	50	One Day 15/10/2022	Abes 8	648
Medical and community services convoy	46	One Day 28/10/2022	Janayoti area	598
Medical and community services convoy		30 Days 1-30/11/2022	Bashaier El Kheir area	30,211
Medical and community services convoy	Members of Faculty of medicine	10-20/8/2022	Al-Tabiya- Abu Qir	1093
Medical and community services convoy	Members of Faculty of medicine	7-17/2022	Orphaned Children and Individuals with Disabilities	217
Community services convoy (Ramadan Convoy)	Members of Faculty of medicine	5-15/6/2024	King Mariout	1500
Medical and community services convoy	60	One Day 27/1/2023	Abu Al-Matamir	804
Medical and community services convoy	66	One Day 17/2/2023	King Mariout	737
Medical and community services convoy		One Day 20-24/2/2023	Siwa	6311
Literacy Convoy	Faculty of Education	28/02/2023	El-Amriyah	90
Medical and community services convoy	35	One Day 18/5/2023	Administrative Prosecution Complex in New Smouha	307
Medical and community services convoy	59	One Day 13/7/2023	Kom Hamada (Beheira)	390
Veterinary convoy	Faculty of Veterinary Medicine	05-15/07/2023	Abis 8	666

Medical and community services convoy	19 doctors and dentists & 60 students from various faculties including Medicine, Dentistry, and Pharmacy	2/08/2024	Bahij area of Borg El Arab	79
Medical and community services convoy	Faculty of nursing	7/09/2024	Dar Al-Hena for elderly women	200
Medical and community services convoy	Faculty of Medicine, Faculty of Pharmacy, Faculty of Dentistry, Faculty of Nursing, High Institute of Public Health, Research Institute, Faculty of Veterinary Medicine, Faculty of Agriculture, Faculty of Specific Education, The Anti-Violence Against Women Unit, Rotary Club Harbor, and Rotary Club West Alexandria.	13/09/2024	Abis7	422
Medical and community services convoy	Colleges of Medicine, Dentistry, Pharmacy, Nursing, the Medical Research Institute, and the Higher Institute of Health.	18/09/2024	Borg AL-Arab	974
Medical and community services convoy	Faculty of Medicine, Dentistry, and Pharmacy, Faculty of Education, The Faculty of Early Childhood Education & the Anti-Violence Against Women Unit	12/10/2024	Abis 8	619
Veterinary convoy	Faculty of Veterinary Medicine,	12/10/2024	Abis 8	246

- The **convoy in the Abis 7 area** was part of the broader initiative “New Beginning Initiative for Human Development” to **provide medical and community services**, on Friday, September 13, 2024.
- Alexandria University colleges and institutes participated in the medical and community convoy, providing a range of services including medical care from the Faculty of Medicine, Faculty of Pharmacy, Faculty of Dentistry, Faculty of Nursing, High Institute of Public Health, and Research Institute; veterinary services from the Faculty of Veterinary Medicine; agricultural guidance from the Faculty of Agriculture; and contributions from the Faculty of Specific Education. The Anti-Violence Against Women Unit conducted workshops on micro-industries, psychological counseling, and legal consultations. Civil society participation included the Rotary Club Harbor and Rotary Club West Alexandria. Additionally, educational sessions for children were provided, along with the distribution of gifts and school supplies.
- A total of 422 cases were examined across various specialties: Dermatology (53 cases), Pediatrics (78 cases), Obstetrics and Gynecology (24 cases), Ophthalmology (41 cases), Orthopedics (70 cases), Internal Medicine (76 cases), and Dentistry (80 cases). Additionally, medications were provided free of charge to patients in all specialties. Some cases requiring

surgical intervention or further examinations in various specialties were referred to Alexandria University Hospitals.





"Decent Life" Caravan in the Bahij area of Borg El Arab

On Friday, August 2, 2024, Alexandria University organized a comprehensive medical and community convoy under the "Decent Life" initiative to the Bahig area in Borg El Arab. The event took place at Dr. General Mohamed Abdel Wahab School, Borg El Arab Educational Administration.

Participants:

16 medical doctors and 3 dentists & 60 students from various faculties including Medicine, Dentistry, and Pharmacy. A total of 200 participants from different faculties, including faculty members, students, and administrative staff.

1. Medical Convoy: Participating faculties: Medicine, Pharmacy, Dentistry, Research Institute, High Institute of Public Health, and Faculty of Nursing.
2. Community Convoy: Participating faculties: Veterinary Medicine, Education, Specific Education, Physical Education, and the Anti-Violence Against Women Unit at Alexandria University.
3. Civil Society: National Council for Women, Rotary Clubs of Alexandria Capital and Alexandria Harbor, and the Drug Bank Foundation.

4. "Doctor for You" Family: Participants from the faculties of Medicine, Dentistry, and Pharmacy. Faculty of education

- Eradicating illiteracy through immediate exams for illiterate individuals
- Psychological and mental health counseling with the participation of faculty members from the Faculty of Education

Faculty of Specific Education

- Awareness seminars for women
- Workshops on sewing, crafts, and crochet
- Workshops on drawing and coloring for children
- Ceramics workshops and sculpting with porcelain clay
- Entertainment segment for children, including distributing sweets to them

Faculty of Veterinary Medicine

- In Ismail Buraig, the caravan is in the village of "Abdel Baset," affiliated with the Mostafa Al-Arab unit.
- The caravan offers medical, guidance, and service support to the residents of the area, as well as training for fourth-year students from the college.
- Diagnosis and treatment of diseases and surgeries for small and large animals, and poultry, free of charge.

Faculty of Physical Education for Boys and Girls

- A sports day at the Bahij Youth Center, featuring images of various matches and competitions.

Unit for Combating Violence Against Women

- A party for children with sweets distribution, psychological support, and legal consultations.

Rotary Harbor

- Distribution of sweets, school bags, and stationery.





A workshop on patient safety in collaboration between the Faculty of Nursing and the Vascular and Diabetic Foot Hospital on Tuesday, August 13, 2024, with the participation of 52 trainees from many hospitals.



- **A training course held by the Faculty of Nursing on cardiopulmonary resuscitation (CPR) on Wednesday, August 14, 2024, in collaboration with the African Center for Women's Health Services.**



- A training course held by **the Faculty of Nursing** on "Nursing Tips and Tricks for Preterm on CPAP" on Tuesday, August 27, 2024, in collaboration with the African Center for Women's Health Services.
- **As part of the "New Beginning" initiative for human development, a visit was organized to Dar Al-Hena for elderly women on Saturday, September 7, 2024, in collaboration with the Elderly Nursing Department at the college.** The awareness lectures covered various essential topics for women's health after menopause, focusing on healthcare strategies to address physical and psychological changes, prevention of osteoporosis and heart disease, and the management of chronic conditions such as diabetes and hypertension. They also emphasized mental health for elderly women, discussing the prevention of depression and dementia, the importance of engaging in cognitive activities to enhance memory, and effective coping strategies for aging. Additionally, the lectures addressed healthy nutrition, highlighting specific dietary needs for this age group, strategies to combat malnutrition and anemia, and the critical role of nutrition in preventing chronic diseases. Finally, maintaining mobility and physical activity was a key focus, with discussions on suitable exercises to improve strength and balance, as well as methods for preventing falls and injuries.

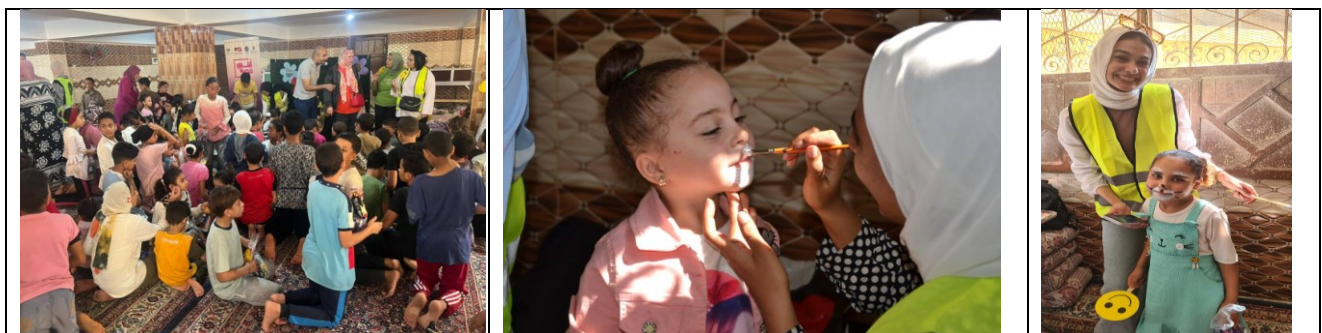




Forum on Violence Against Women: Challenges and Solutions" on Sunday, September 8, 2024.



- On 12 October 2024, In light of the launch of the presidential initiative, the Faculty of Early Childhood Education took part in the activities of the initiative which was directed to the Abis 8 area. They presented various artistic activities that align with the initiative's goal of building humanity. A puppet theater performance was showcased that celebrated the October victory and our duties towards the nation in the present and future, addressing themes of accepting others, rationalizing water consumption, and preserving the environment and community. The students also engaged in several activities like drawing, handicrafts, and diverse artistic games, where children participated and received various gifts for their involvement in the events. With the participation of the Anti-Violence Against Women Unit as part of the 'New Beginning' initiative.





- Faculty of Veterinary Medicine, Alexandria University, organizes 9 Veterinary Convoys to Serve Abis Villages. The Faculty of Veterinary Medicine, in coordination with the Directorate of Veterinary Medicine in Alexandria, organized nine veterinary medical convoys to serve the people of Abis villages in Alexandria Governorate, for a period of two weeks, from the 5th until the 15th of July 2023. The students of the final year of the faculty participated in these convoys for practical training. The total number of cases that were detected and treated amounted to 2716 cases, which included 666 cases of different animals and 2050 cases representing poultry and birds.



Medical and community convoys

Description:

Example from Alexandria University.

Additional evidence link:

https://alexu.edu.eg/index.php?option=com_content&view=article&id=5857&catid=21&lang=ar-AA

2. Service projects of Alexandria University

The Department of Sculpture in the Faculty of fine Arts participated with the following projects for community service and environment development:

- Borg El Arab road with sculpture arts of students' graduation projects through the last five years.



- Enhancement of El Mahmoudia canal.
- Enhancement Red Sea governorate with graduation projects.
- Design and implement sculpture model in Ahmed Zwi square.

There are some production units in the university

Additional evidence link: <https://alexu.edu.eg/index.php/en/2015-11-24-10-38-07/university-and-society-of-alexandria/service-projects-of-alexandria-university>

3. Training Centers at Alexandria University

Faculty Leadership Development Center

The Alexandria University Faculty and Leadership Development Center (FLDC) is a full service hospitality venue focused on the discipline of collaborative convening. The center offers clients services that merge the theory and practice of collaborative strategies. They invite leaders to come together for meaningful interaction and dialogue, reflect upon and challenge their current ways of thinking and acting, practice convergent decision making, and collectively and individually build new capabilities.

FLDC has implemented during the period from July 1, 2020 to June 30, 2023 a number of training programs (program - trainees) to improve teaching and learning for Alexandria university affiliates (faculty staff members – assistant staff members – postgraduate student – the administrative), according to the attached file.

2020/2021: 5011 trainees

2021/2022: 5965 trainees

2022/2023: 5527 trainees

Additional evidence link: <https://alexu.edu.eg/index.php/en/2015-11-24-10-43-20/training>
<https://alexu.edu.eg/index.php/en/fldc>

4. The literacy: Alexandria Without Illiteracy:

- Alexandria University is keen to provide all forms of support to confront the problem of illiteracy and eliminate it, believing in the necessary role of Alexandria University in community participation. Alexandria University President stressing the university's keenness to play its role in community service within the framework of the university's social and national responsibility, in line with implementing the state's plan to achieve the goals of sustainable development until 2030, including addressing the dangers of illiteracy. He indicated that **the University established Alexandria University Centre for the Eradication of Illiteracy to implement an integrated strategy to support this national project at the university level.**
- Alexandria University signs a cooperation **protocol with the General Authority for Adult Education to eradicate illiteracy in Alexandria.** In this context, the issue of eradicating illiteracy and adult education is one of the most important development strategies to which the Egyptian state attaches special importance, indicating that the university will implement the protocol through its human cadres (faculty members and students) to eradicate the illiteracy of university workers, villages, and neighborhoods. And the governorate centers under the supervision of specialized professors at the university and participants in the project, pointing out that **Alexandria University, in cooperation with the Alexandria Governorate Authority, will train university youth participating in the project on methods and methods of adult education** through its colleges. In addition, the university is holding training courses to raise the efficiency of workers in the field of literacy. It is committed to allocating a place in the university courtyard for the authority's employees to answer all inquiries, and the university will also choose a coordinating committee to manage and implement the project.
- 1,000 literacy classes have been opened in the governorates of Alexandria, Matrouh, Beheira, and Kafr El-Sheikh, with a capacity of 8,000 students, to begin work directly. He explained that the college will prepare lists of the names of those working in literacy classes as teachers, and award students with certificates of appreciation for each student who

participated in the students' success. Alexandria University ranked eighth among Egyptian universities in the field of eradicating illiteracy according to the results of the January 2021. Alexandria University students were able to eradicate the illiteracy of 1,059 students within three months, stressing that eliminating illiteracy is a goal. Alexandria University Center for Illiteracy Eradication" at the Faculty of Education, in cooperation with the General Authority for Adult Education, opened a number of literacy classes, exceeding 1,250 classes in the governorates of Alexandria, Beheira, Kafr El-Sheikh, Gharbia, and Matrouh, which contributed to Raising the university's ranking in eradicating illiteracy and rising from twentieth place last year to eighth place this year, he explained that eradicating illiteracy has become a graduation requirement for every student in the fourth year in the faculties of the educational sector at Alexandria University (Faculty of Education - Faculty of Early Childhood Education - Faculty of Specific Education - Faculty of Education). Sports for Boys - College of Physical Education for Girls), where every student now has to erase illiteracy for 6 people before graduating.

- The Center for Educational Innovations and Distance Learning at Alexandria University completed the evaluation of digital content, which is considered an alternative activity to literacy activity, for 2,333 male and female students. It is worth noting that the digital content activity is a graduation requirement for all educational colleges at the university (College of Education - College of Specific Education - College of Physical Education for Boys - College of Physical Education for Girls - College of Early Childhood Education), where the students developed awareness content aimed at raising awareness of a societal issue. The content was evaluated by a committee of professors from the relevant colleges, in addition to specialists from the Center for Educational Innovations and Distance Learning team.
- Regarding a project to eradicate illiteracy and adult education, College of Education submit a proposal by opening fixed classes to eradicate illiteracy in the main neighborhoods of Alexandria Governorate within schools and youth centers, and carrying out implementation through university students. The university's efforts were also reviewed. In the field of eradicating illiteracy in the period from October 2021 to April 2022 program, where 1,924 individuals were eradicated during that period. In cooperation with the General Authority for Adult Education, as the university contributed to eradicating the illiteracy of 854 citizens during the April 2022 program.
- The colleges of the educational sector at Alexandria University (Faculty of Education - College of Specific Education - College of Early Childhood Education - College of Physical Education for Boys - College of Physical Education for Girls) were able to eradicate the illiteracy of 2037 citizens, and the College of Education was able during the July 2022 program to eradicate the illiteracy of 959 citizens according to what is Registered in the educational process database, in cooperation with the General Authority for Adult Education, and within the framework of the national project to eradicate illiteracy in Egypt.
- Alexandria University students succeeded in eradicating the illiteracy of 1,065 male and female citizens in the January 2023 program, according to the educational process database records. Faculty of Education launched the 28th of February 2023, the convoy organized for the city of El-Amriya, west of Alexandria, in order to carry out its role in community service and to hold immediate literacy exams for a large number of illiterate people. The exams were held at Al-Hassan Ibn Al-Haytham School, in coordination with Undersecretary of the Ministry of Education in Alexandria, and education leaders in Amriya region, with the participation of members of the Literacy and Adult Education Authority, and staff members at the faculty Education, in addition to student teachers who participated in holding exams for illiterate students, and Administrative Director of the faculty's Literacy Centre.
- Alexandria University Centre for Literacy and Adult Education, has been able, since its establishment, to educate more than 13,000 illiterate individuals, and to open 7,800 so far in the governorates (Alexandria - Gharbia - Kafr El-Sheikh - Marsa Matrouh - Minya - Beheira), pointing out that this number is constantly increasing.
- Under the slogan "**A Decent Life**" and in cooperation between civil society organizations, the "You Are Life" initiative was launched by Alexandria University in the ancient city of Burj Al Arab. The initiative included raising awareness of the **danger of addiction** to the individual and society, **medical convoys** (various specialties), **craft workshops**, **spot exams** (literacy eradication), **awareness raising for women**, **activities for children and a theatre**, in addition to providing **counseling services**, **psychological** and **family support**, and **diagnosing behavioral and psychological problems**. This comes in cooperation between the concerned authorities: (the Anti-Addiction Fund, the Ministry of Health and Population, the Ministry of Youth and Sports, the Ministry of Culture, the University of Alexandria, the

National Council for Women, and the General Authority for the Eradication of Illiteracy and Adult Education), other specialized institutions, and civil society organizations.



Additional evidence link:

<https://alexu.edu.eg/index.php/en/community-development-and-environmental-affairs/6442-the-literacy>

https://l.facebook.com/l.php?u=https%3A%2F%2Fyoutube.com%2Fplaylist%3Flist%3DPL2y4AZEEnQLnjcXCDLI13K-dIS5GhvUusz&h=AT3sbdQgnB8RCSqhYeXhFtjw-dphyR-Vf1ZkHSo6K_325jdtHsv3JAAffKnI9uElKe5YRs26hdGcHRMncAWqSyekz87bcJPiBAvA96GScyEU2wVdVN5RoYZ2VzVp2rUwMApAQk11GthI4z79cDsnR-uVNSHgm25eHpQB-IBD9KYNcSr2ZPnUjAK2VYp1Hn6OEQKpa7OmePX76bK83Q5k4kh77EW8xdlIs4YJrf2_Vh147A_7JhdG9JRuU152puRgxZ0I7r-UGUJGtgk7AKJpCTArqI7S9zjElFb1Hk7aC2euG5yn30tq34jJUI6KG27nfx5W-L0sKBt8rMJYE1-HZcoVN5iaE5Js-yYPMqQ5YrK9rT8YJld0MvrGgOpGbaMz6MtDAZ3sJwc4um3Rq7HKeW0Hhell-OoszsAlpkCFPDI3tGxsXoennisc3zviH4GZRGHXO2Zqe8tG75-R8zeriPgW5WjFhU49K8SnsxnF0ZRkl8TAcuN_6HP_HXN5hK5ROb54usD6HLrc8Q1Gey8f8O3li7G6Qe7VXAi9VjM4UwnVdIEu-6YfXnOURTysAg5FS6LOM0FHewGPImsgt5S62VecToeYoW7LoQ

5. Transformational Training and Capacity Development

Striving to enable graduates, university youth, and civil society to acquire additional skills in the basic field or in a related profession or in a new and emerging field of work in order to meet the internationally available job opportunities to extend the alignment with the sustainable development agenda of "Egypt Vision 2030".

Activities / Achievements

Pharmacists training program for a group of pharmacists in Alexandria governorate pharmacies.

Training courses in the field of mental health in the community.

Graduate qualification courses ICDL Digital marketing

Holding a group of professional courses in cooperation with the Don Bosco Institute in Alexandria, which are:

Paper recycling course in cooperation with the College of Fine Arts.

Training course on the mannequin in cooperation with the Faculty of Specific Education.

Air conditioning and refrigeration course in cooperation with the College of Engineering.

Electrical installation course in cooperation with the College of Engineering.

Additional evidence link: https://alexu.edu.eg/index.php/?option=com_content&view=article&id=5930

6. Employment fair: An Employment Forum is held every year in several Faculties on Alexandria University Campus.

Additional evidence link: <https://alexu.edu.eg/index.php/en/Employment-fair-en>

7. University centers and units

English Language Center for Special Purposes

Community Service Center

Center for Career Development and Entrepreneurship CDCE

Professional training center

Additional evidence link: <https://alexu.edu.eg/index.php/centers>

8. Community initiatives

- The Community Service and Environmental Development Affairs Sector at the Faculty of Science, Alexandria University, with the participation of the Anti-Addiction Fund, the Al-Hayat Center for Addiction Treatment, and IBRO, organized an awareness campaign in the 10th Abis district to shed light on the dangers of addiction and its negative physical and psychological effects. They raise awareness of the dangers of addiction, encourage children to understand the parts of the brain, identify the region's needs for services and development, and identify the obstacles facing the region such as the lack of competencies in the health unit to operate and deal with the devices, and the density of the number of students in schools. The region, the lack of interest in the quality of education, the lack of adherence to precautionary measures, and the region's need for special medical convoys for chronic diseases such as treatment of blood pressure and diabetes.



- In line with the state plan to develop Egyptian villages and within the activities of the **Decent Life Initiative** to support human building. Alexandria University, organized an awareness convoy in the Abis 7 area on Saturday, March 19, 2022, as part of a series of visits. The campaign targeted 200 individuals from different groups. The Faculty of Science participated in awareness programs that included training for laboratory experiments and some simplified scientific concepts for children. The Faculty of Arts provided a psychological counseling service. For the people of the region, the Higher Institute of Public Health participated in providing awareness, health education, and a survey of the possibility of parasitic infection to a number of residents of the region. The Fund for **Combating and Treating Addiction and Abuse**, affiliated with the Ministry of Social Solidarity, raised awareness of the drug abuse law and provided health support to those in need of treatment. The Electricity Company also continued to provide technical support and receive complaints from the villagers and submit them via the electronic platform.



- A delegation from Alexandria University made a field visit to the water lifting stations in the Sidi Ghazi (Harith) Canal branching off from Lake Mariout to discuss how to provide **technical and scientific support** towards the phenomenon of **lake water leakage** and find scientific solutions to confront the problems. Water shortage and desertification to make the most of the lake. Alexandria University has paid great attention to Lake Mariout for more than 20 years, and has presented several studies as a house of expertise for major projects in Alexandria and its suburbs, and out of its belief in its role in serving and developing the Alexandrian community. These studies have been published in international journals, emphasizing the university's continued use of all its energy to develop it. These areas extend beyond the forum, and a set of goals have been identified during the coming period, which are to find solutions to the problem of water leakage from the lake, the problem of sewage, and the problem of paving the road connecting the village to the desert road, which is 5 kilometers long. During the day, the convoy carried out an awareness campaign in cooperation with the **Drug Control Fund**, during which leaflets were distributed, and a symposium was held to introduce the harms of drugs and smoking. In addition to other public seminars on health awareness, gynecological diseases, family planning methods, and a symposium on breast tumors, coinciding with World Cancer Day. The members of the convoy also carried out several different social and medical activities during the day, including a clinic for early detection of blood pressure and diabetes, where 118 blood pressure tests and 93 blood sugar tests were done, and 48 early detection of hepatitis C virus were done, affiliated with the Ministry of Health, represented by the 100 Million Health campaign. In the same context, the university announced its intention to continue its efforts to confront poverty in those areas by sending a team to train women in sewing and embroidery and opening literacy classes for children and the elderly.



- Alexandria University launched its second campaign in the village of Abis 7, with the participation of the Alexandria Petroleum Additives Company (ACPA), the Holding Company for Drinking Water, the Sanitation Company, Nahdet Misr, the Egyptian Red Crescent Society, and the Fund for Combating and Treating Addiction and Abuse. On Saturday, December 25, 2021, the campaign targeted about 800 individuals from various groups, and 500 units (blankets and food commodities) were distributed to some of the neediest families. Activities also varied throughout the day, as the companies participated in the awareness campaign made an inventory of service needs in preparation. To solve it. The

needs of various training programs to support human development in the village were also identified by the college's social responsibility team.



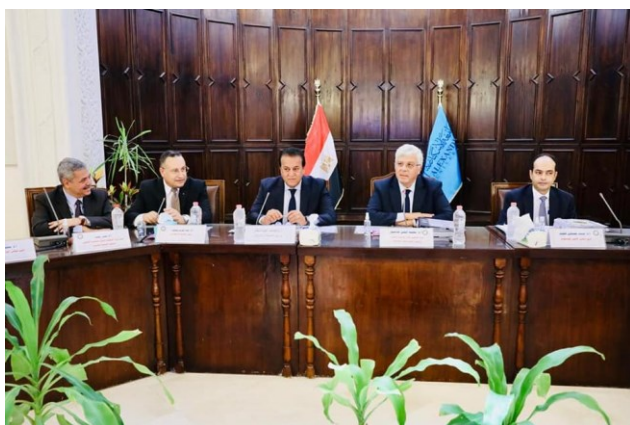
- Alexandria University launched an awareness campaign for the Abis 7 area, with the participation of the Holding Company for Drinking Water, the Sanitation Company, Nahdet Misr Company for Modern Environmental Services, the Egyptian Red Crescent Society, and the Fund for **Combating and Treating Addiction and Abuse**, on Saturday, December 11, 2021. The campaign included several activities with the people of the region, such as distributing awareness-raising publications to maintain brain health by the college's social responsibility team and organizing an awareness-raising activity about the danger of addiction within the activities of the "**Alexandria Without Addiction**" initiative. The water and sanitation companies also held interactive programs on the importance of water conservation and conservation, and the safe disposal of solid and liquid household waste, and conducted a number of craft workshops, including plumbing and soap making. They also contributed to bringing joy to children by participating in interactive games and distributing in-kind gifts to them and the women. The water company's logistical customer service vehicle was present, which received complaints from residents in the area. At the beginning of the meeting, the Egyptian Red Crescent Society was keen to sterilize the place and hold a symposium on the importance of precautionary measures against the Corona virus. It also organized a symposium on the principles of first aid, and Nahdet Misr Company for Modern Environmental Services carried out a cleaning campaign for the place and distributed an awareness brochure on the importance of safe disposal of garbage.



- Alexandria University Organizes Student Climate Change Initiative Throughout the Year: Within the framework of Alexandria University's keenness to enable students to play an active role in climate change issues, Alexandria University organizes throughout the year until the end of 2023, coinciding with the beginning of the COP27 Climate Summit, a **student initiative that aims to engage students in addressing climate change issues, propose innovative solutions, educate them and urge them to pay attention to the effects of climate change in the city of Alexandria and how to protect it from the effects of climate change, through various interactive events that include capacity building, youth dialogue, competitions, theatre performances, training camps, as well as climate change awareness campaigns.**



- The Minister of Higher Education chairs the meeting of the Supreme Council of Universities at Alexandria University supporting the **“Egypt Digital Cubs” initiative organized by the Ministry of Communications and Information Technology, by allowing the use of electronic testing laboratories spread throughout all public universities**, to conduct admission tests for applicants, by activating a tripartite cooperation protocol between the Ministry of Higher Education and Scientific Research, the Ministry of Communications and Information Technology, and the presidents of public universities. **The Ministry launched the green financing initiative for research, development and innovation to support applied projects that contribute to solving environmental problems, nature conservation, clean energy, waste recycling, etc.** They also reviewed the ongoing partnerships between the Ministry and various countries of the world, the Association of African Universities, and the Union of Arab Universities.



- Faculty of Education Launches **“Go Green” Initiative**, part of Freshmen Activities to raise awareness of the importance of afforestation, waste recycling, and rationalization of food and energy consumption, to change the wrong behaviour, spread environmental awareness, and urge students to participate in preserving the environment, explaining that the students presented practical activities for some courses under the title "Go Green", where each student actively participated in planting trees in the faculty courtyard. The students actively took part in this initiative out of a sense of responsibility towards themselves, their faculty, their university, and the environment around them.



- An awareness program on the danger of addiction, in cooperation with the Fund for Combating and Treating Addiction and Abuse, affiliated with the Ministry of Social Solidarity, in college campuses. This activity comes within the framework of completing the activities of the “Alexandria Without Addiction Initiative” launched by Alexandria University, through which a group of programs are implemented to reduce the risk of the spread of the phenomenon of addiction of all kinds. The program’s implementers educate students in various colleges about the dangers of addiction and the use of narcotic substances, methods of treatment, and how to Obtain support by contacting the addiction treatment hotline 16023 affiliated with the Anti-Addiction Fund.



- The Community Service and Environmental Development Council at Alexandria University approved the proposal submitted by the Faculty of Physical Education for Men to organize a community **initiative under the title “Our Faculty is Without Bullying”** with the intention of spreading the of this initiative at the university level to be a university without bullying, in order to shed light on this phenomenon that threatens Egyptian society, and the formation of a specialized committee to present its vision and recommendations in this regard.
- Alexandria University participated in the **Forum for Activities and Events of Egyptian Public Universities to Confront Climate Change 2022**, during the period from (September 22-23, 2022) at the Galala Tulip Hotel in Ain Sokhna with a group of research topics in the field of climate change and applied projects related to it included the uses of green hydrogen and green ammonia in the fertilizer industry, the establishment of an energy and water services company, the localization of the electric car industry within Egypt, the role of the Suez Canal in reducing carbon emissions at the global level, and the establishment of the Alexandria University Center. For the greener blue economy, Egypt's role as a regional energy center and the establishment of the Alexandria University Center for Sustainable Development.



- Under the slogan “No to Addiction,” and to activate the university’s pioneering role in supporting the mental and physical health of its students, Alexandria University organized in cooperation with the Fund for Combating and Treating Addiction and Abuse, affiliated with the Ministry of Social Solidarity the five-a-side football sports league, and university teams of young men and women participate in it.
- Opening the **new stadium complex** and launching the “**Healthy University Sports Campus**” initiative for students. The development work included opening the open playground complex, maintenance work on the swimming pool, extracting groundwater to irrigate the playgrounds, as well as opening an outdoor fitness area for students, within the framework of the “Healthy University Sports Campus” initiative for university students, which was launched by the Ministry of Youth and Sports, stressing that the Faculty of Physical Education for Boys at Alexandria University is the first college to activate this initiative.
- Launching of the “**Awareness Hall Ambassadors**” program at **Alexandria University** to raise awareness to achieve the goals of sustainable development of the necessity of building leadership cadres to work in the field of awareness (the Solidarity Conscious People Initiative), and in cooperation with the Leaders Foundation for Administrative Sciences and Development, the State Information Service, the officials of the Ministry of Solidarity, and the Leaders Foundation for Administrative Sciences, in order to implement the program that aims to Achieving the state’s plan to advance the citizen and preserve the homeland (a decent life initiative), and build cadres to work in the field of awareness (the eradication of a solidarity-conscious people), and discuss issues of awareness at all levels.
- Faculty of Pharmacy organizes a sports marathon for walking and cycling entitled “**Running for Green**” in cooperation with the students of the Scientific Society of Faculty of Pharmacy, within the framework of the preparations of Faculty of Pharmacy and University of Alexandria for the Climate Change Conference COP27 held in Sharm el-Sheikh in November 2022. The marathon was launched from the front of the Bibliotheca Alexandrina to the Citadel of Qaitbay with the participation of about 150 individuals, and an elite of Faculty staff members, Faculty employees, and students. The organization of the marathon came with the aim of unify the students and Faculty members as one family and to encourage the students to practice sports to improve their physical and mental health, which reflects positively on their academic performance.
- **A cycling race and marathon events were launched**, as part of the Scientific Conference on Climate Change and Sports, organized by the Faculty of Science and the Faculty of Physical Education in Abu Qir from 27-29 October 2022, with the participation, support and sponsorship of the Ministry of Youth and Sports, the Universities Sports Federation, the Ministry of Environment, the Egyptian General Authority for Tourism Development, and a number of sponsoring organizations. More than 1,500 male and female students participated in the marathon, as part of the forum’s activities. The marathon started from Camp Caesar area until Qait Bey Citadel west of the city.

Number of sustainability-related startups



Museum of Central library of Rare collectibles, Heritage books and manuscripts (Alexandria University, EGYPT)



Artificial Intelligence Minds

Egypt's First Incubator Specialized In Artificial Intelligence

Our Offerings

Up to 200K Seed Funding	Co-Working Space	Specialized Labs (IoT & HPC)
AI Industry Experts & Mentors	Technical & Business Trainings	Support From IBM
Legal & Financial Support	Investment Matchmaking	Marketing Support

Our Locations

Alexandria



Cairo



Apply Now

www.aimincubator.com

Deadline

30 - 10 - 2019

Funded By



Managed By



Artificial Intelligence Minds Incubator (Faculty of Engineering, Alexandria University)



Alexandria University Technology Incubator for Smart Systems (AUTISS) Incubator (Faculty of Engineering, Alexandria University)



Agro-Food Industries Alliance Products



New partners

Agro-Food Industries Alliance Project





Accreditation Certificate of Central Laboratory – Faculty of Science (Alexandria University)

[illegible]

Courses of the Center for Services and Developing Artistic and Architectural Skills at the Faculty of Fine Arts (Alexandria University)

















Under the Patronage of
Prof. Dr. AbdelAziz Konsowa
Alexandria University President

22 June - 5 July Startup Olympics Alexandria University 2024

Under the Auspices of
Prof. Abdel Aziz Konsowa, President of Alexandria University
Prof. Aly Abdel Mohsen, Vice President for Education and Student Affairs
&
Prof. Elsayed Elsiefy, Dean of the Faculty of Business
Cordially Invite you to the Grand Finale of the Startup Olympics Competition
(Student and Researcher Tracks)
Conference Hall, Second Floor, Nour Building,
Faculty of Business, Alexandria University
Opening 12:00 -1 PM
Pitching 1-6 PM
Winners Announcement 6-7 PM

10 July 2024 Startup Olympics- Alexandria University 2024

Startup Olympics Final for Students and Researchers Tracks at Faculty of Business. 107 teams submitted innovative and promising startup ideas for the competition, which was managed by the PILOT incubator over the previous months, and was supervised by many members of Alexandria University as trainers, mentors, organizers and judges.

الفرق الفائزة

بدعم الصندوق والشركاء الصناعيين في مسابقة

BIO-iCHALLENGE



87 طالبًا
تأهل للمشاركة



21 فريقًا
تأهل للمشاركة



450 طالبًا
تقدم للمسابقة



90 فريقًا
تقدم للمسابقة



15 من
جامعة مصرية











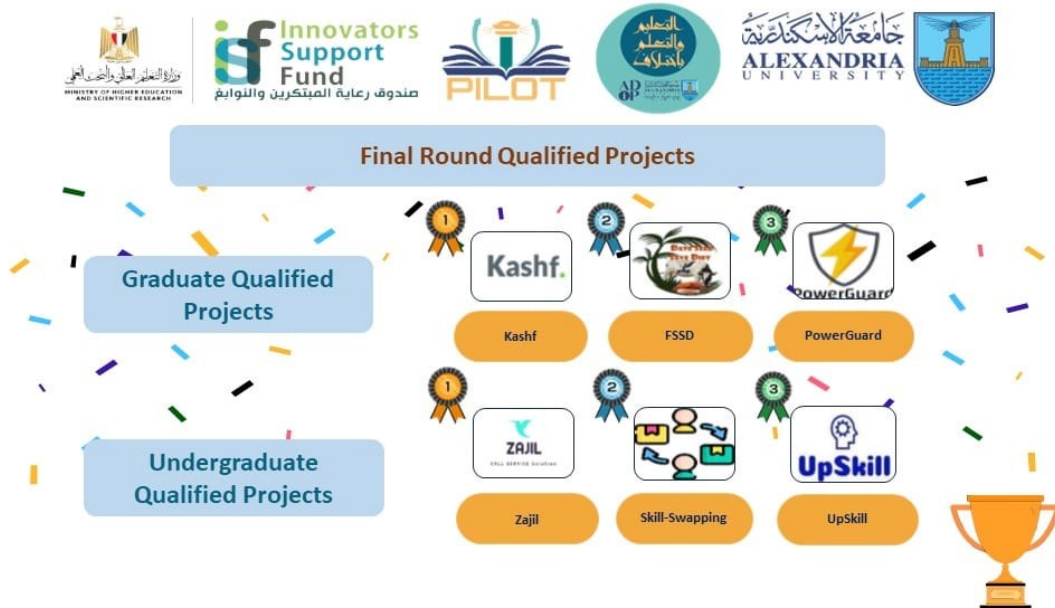









The Bio-iChallenge program, launched by the Innovators Support Fund, encourages university students to develop innovative solutions for challenges in Egyptian industries. Out of 90 teams (450 students), 21 teams (87 students) qualified for the competition. The program offers financial support, training, job opportunities, mentorship rewards, and chances to present solutions at major events. It also helps students gain problem-solving skills and connect theory with practice, while providing access to additional entrepreneurship programs.



The 2024 Startup Olympics at Alexandria University concluded with winning teams announced in both the student and researcher tracks. Sponsored by the Innovators Support Fund (ISF), the competition supported young innovators in transforming their ideas into startup businesses. In the student track, Call Services (Zajil) won first prize (18,000 EGP), followed by Skill Swapping in second (12,000 EGP) and Up Skill in third (10,000 EGP). In the researcher track, El KASHF secured first prize (25,000 EGP), FSSD took second (20,000 EGP), and Power Guard earned third (15,000 EGP).



The EFFCT team from Alexandria University has won second place in the prestigious Hult Prize International Competition, held in Paris, France. Competing against over 10,000 teams from 110 countries, the team impressed the judges with their innovative startup, which focuses on recycling waste from the textile industry. Their achievement highlights Alexandria University's dedication to fostering student innovation and entrepreneurship on the global stage (November 2023).

1- Museum of Central library of Rare collectibles, Heritage books and manuscripts (Alexandria University, EGYPT)

Hall 1 contains the first University Thesis and Graduation Certificate of the most famous graduates, University building maps, and heritage manuscripts.

Hall 2 contains the 13th century AD manuscript of David's Ticket. The library contains 1095 Arabic Manuscript. 24 Persian Manuscript and 114 Turkish Manuscript.

Hall 3 contains 1337 volumes, including books on the Crusades, and many rare books on Egypt in German, French, Italian, and the first foreign publications, the oldest of which date back to the 16th century AD.

Link: <https://clib.alexu.edu.eg/index.php/2019-02-12-09-16-07/2019-02-12-09-23-42/2021-01-20-19-49-36>

Link: <https://clib.alexu.edu.eg/index.php>

Link: <https://alexu.edu.eg/index.php/en/university-libraries>

Link: <https://alexu.edu.eg/index.php/en/2015-11-24-10-39-04/libraries1/central-library>

2- Artificial Intelligence Minds Incubator (Faculty of Engineering, Alexandria University)

• Incubated Startups

1. Hive

Developing AI security drones and rovers to replace high cost security guards.

2. Blue Vision

Using AI to help recruiters in identifying the right candidates through video recorded online automated interview.

3. Flothers

Using AI for recommending Forex and Stock Market investment.

4. Pianat.ai

Developing AI based decision support system for both government and private sector decision making process based on data coming from different sources.

5. VRNRS (Name has been changed based on their bootcamp tips to be EDSINE)

Using AI for simulating nuclear reactor operations and accidents, this is a teaching simulator aim in for sales in the scientific community and power companies using nuclear reactors. realistic and willing to develop new business.

6. Qubx

Developing 3D printed/visualized models to be used in surgery operations preparation by doctors and also creating 3D models for babies.

3- Alexandria University Technology Incubator for Smart Systems (AUTISS)

About

Alexandria University Technology Incubator for Smart Systems (AUTISS) was accredited by the Ministry of Higher Education in 2020 to be established at Smart Critical Infrastructure (SmartCI) Research Center, Alexandria University (AlexU).

AUTISS aims to nurture the culture of innovation at campus among the university community and to create value added services for researchers and entrepreneurs.

AUTISS is mainly interested in using Smart systems and modern technology for the development of different infrastructure systems (e.g., education, transportation, healthcare...etc.).

AUTISS Vision

AUTISS aims to be a hub that fosters synergy between the academia and the industry to fuel entrepreneurial spirit among students to help them to be self-reliant and contribute to the economic development and nation building.

AUTISS Mission

- To build an ecosystem to incubate and support innovative ideas in Alexandria and the surrounding areas to enact wealth and employment action through successful startups.
- To create entrepreneurial opportunities for students, graduates, faculty members and researchers.
- To support emerging technologies that are useful to enter the market.

- To nurture technology and knowledge-based ventures through their start-up phase by providing the necessary support.
- To assist in commercialization of innovative ideas from students and researchers.

Areas of Interest

AUTISS supports entrepreneurship and provides a set of technical and business-related services to startups that deliver technological products or services for the development of the different infrastructure systems. Current topics of interest, based on the international trends and Egypt's 2030 strategy, includes but are not limited to:

- Digitization of different services
- Smart health services/products
- Fintech applications
- Smart business solutions
- Smart educational services/products
- Biomedical engineering
- New technologies in the field of Energy, Agriculture and Food industry

AUTISS Facilities

- **Furnished office space**
- **Class rooms**
- **High Performance Computing lab**
- **Access to labs**
- **Meeting rooms**
- **Kitchen area**
- **Parking space**

4- Agro-Food Industries Alliance Project

The presence of sectoral alliances in the world is one of the most important ways to increase national income and develop small and medium industries.

From this standpoint, the Agro-Food Industries Alliance was formed, which consists of 16 partners (universities, research institutions, industry representatives, small and medium-sized companies, NGOs and local authorities).

Alliance Partners:

Universities: Alexandria University, Damanhour University, Kafr El Sheikh University, Suez Canal University, Ain-Shams University, Arab Academy for Science, Technology and Maritime Transport

Community organizations: Lake Investors Association, The Egyptian Foundation for Bio-Agriculture, Regional Federation of NGOs

Research or industrial centers: Agriculture Research Center, National Research Center, IMC Company: Saqr Company, Isis company, IT&M Company.

5- Samdha Company, founded by Musaad Darwish, a student in the Department of Civil and Environmental Engineering at the Faculty of Engineering in 2022.

Logo: Green growth, Granted Crops! Feeding natural, Eating Natural!

Vision: Reaching agricultural planting free of chemicals and trying to reduce water use in desert lands.

Activity: Making full use of organic waste and agricultural waste and converting them into products used for the purpose of developing the agricultural system, such as fertilizer.

Process: Using natural organisms that decompose organic waste, from which vermi compost and Frass fertilizer are obtained without any chemicals, "100% natural process."

Actual products: - Vermicompost powder, which has a high biological value and is used internationally.

-Liquid Vermi-T fertilizer is used with irrigation or when spraying.

-Frass fertilizer rich in chitin.

Products in development: Extracting cellulosic materials from agricultural waste to obtain biodegradable materials that retain water for long periods for use in desert lands to combat the issue of water shortage that the country is currently suffering from.

Roadmap: The idea began in October 2020 during the Local Conferences of Youth (LCOY) for getting rid of organic waste that causes a bad environmental impact, such as the emission of methane gas, which contributes greatly to the phenomenon of global warming and climate change that we are experiencing now.

1- the project started with German Agency for International Cooperation (GIZ) with an initial idea, developed the business plan, and the competition ended with the fourth best project.

- 2- Currently joining the Heliopolis University incubator and Intecmet Egypt, the project was selected from among 12 projects to compete for a financial prize worth 10-30 thousand euros for three of the 12 companies.
- 3- An opportunity to travel to Greece affiliated with the incubator on May 25 (2021) to attend an investment conference and pitch the project in search of an investor.
- 4- Engineer Fatima Badawi and Engineer Amr Al-Adawi, founders of ESSCo, are partners with the land and a sum of money as “business partners.”
- 5- The project was accepted into the Al-Forsa program with Lamis Al-Hadidi and filmed in May 2022 in Alexandria.
- 6- The project was also funded by the European Union’s MADE project to help manufacture water conservation products in desert lands.
- 7- Participation in presenting products in the Cairo Techni Conference.

What has been accomplished: Twenty tons of organic waste have been converted into fertilizer so far.

By the end of 2023, we aim to produce 100,000 ton, in addition to teaching a number of farmers how to deal with waste leaving their land to reach zero waste and a sustainable environment.

Clients: Organic farms - soilless crops - regular agricultural lands (the possibility of converting acres into organic agriculture within a period of time).

Offending products: Black soldier larvae (BSF), which are a good source of high-protein casing, 40-60%. They can be squeezed to extract oils for cosmetics manufacture. Its protein extract can be sold to pharmaceutical companies.

Alexandria University Service Centers

6. Center for studies, technology and manufacturing of seawater desalination equipment

Objectives:

- Qualifying the necessary scientific and technical personnel in the areas of technological specializations that serve water desalination and preparing scientific and applied studies in this field.
- Organizing training programs for workers in the fields of water desalination.
- Achieving integration between scientific and technical competencies in universities, research centers and ministries at the national level in the field of water desalination manufacturing technology and providing studies and technical consultations in this field.
- Achieving cooperation at the regional and international levels with universities, research centers and bodies working in the field of water desalination.
- Organizing scientific and applied courses to grant technical diplomas in the fields of technology, manufacturing, maintenance and management of water desalination plants.
- Organizing conferences and holding seminars, meetings and courses necessary to implement the previous objectives.

7. The Scientific Center for Pharmaceutical Research Center, headquartered in the College of Pharmacy

Objectives:

- Conducting scientific studies and research aimed at solving community problems related to production activities and service delivery, with a focus on the pharmaceutical sector.
- Conducting scientific and applied research to produce new medicines, including natural products.
- Contributing to developing professional performance and developing the skills of workers in the pharmaceutical industry sector and related fields.
- Strengthening the ability of Egyptian medicine to enter global markets.
- Strengthening scientific and cultural ties between the university’s colleges and institutes and between Alexandria University and other universities and scientific bodies at the national, Arab and international levels.
- Carrying out scientific studies and production work on behalf of others.

8. Center for Community Service and English Language for Special Purposes

Objectives:

- Identifying the training needs of society and helping to achieve them and translate them into scientific programs.

- Organizing continuing education programs to provide continuing educational opportunities with the aim of developing sectors of society to interact with development programs and develop them in accordance with scientific developments.
- Preparing and implementing cooperative education programs to provide scientific expertise to community groups in the work and production sectors.
- Organizing study and training courses on an ongoing basis throughout the year in the center's various activities.
- Organizing free studies to meet the needs of the environment and society, including individuals and bodies, in various fields of knowledge, culture of environmental awareness, and information technology.
- Providing summer courses for English teachers in language schools to improve several skills such as pronunciation and listening, and holding special workshops for language school teachers.
- Providing a long-term course for non-specialized English language teachers in agreement with the Ministry of Education to graduate specialized English language teachers.
- Preparing a TOEFL program to qualify the student to take the international TOEFL exam, which is held at the American Center.
- Preparing special programs for postgraduate students in the Colleges of Physical Education for Boys and Girls, as well as the College of Nursing, to raise their level in the language so that they can use English references in their studies.
- Participation in scientific seminars and conferences inside and outside the country.

Link: <https://www.facebook.com/AUCDCenter?mibextid=ZbWKwL>

9. Parks Management Center

Objectives:

- Carrying out the process of establishing, maintaining, renovating, and developing the university's gardens and green spaces for the various colleges at the university.
- Producing ornamental plants to cover the needs of the university's green spaces.
- Marketing plant products inside and outside the university.
- Implementing what is assigned to it by university officials and in accordance with its capabilities and objectives.
- Openness to the community and providing services in the field of the center's various activities.
- Contributing to conducting scientific studies and research aimed at solving community problems in the field of nursery management and production processes for flowers and ornamental plants.
- Developing and modernizing the nurseries affiliated with the university administration to improve the level of their production of flowers, ornamental plants, and internal coordination.
- Participate in providing and presenting scientific plant models to some practical colleges.

10. University Cities Service Center

Objectives:

- Assisting the university in performing its mission towards providing social, cultural and artistic care for its students.
- Contributing to providing services to the university, its colleges and institutes in line with the components of unity.
- Strengthening cultural and scientific ties between the university and other universities, ministries, bodies, and various scientific and cultural institutions by using the facilities and facilities of this center.
- Contributing to the development, improvement and multiplication of the center's production and service activities under the supervision of a group of distinguished faculty members with experience in this regard.
- Carrying out the work assigned to the center by university officials and in accordance with the capabilities and components of the center, its facilities and facility.
- Participation in achieving the university's mission towards community service and environmental development.

11. Student Activities Service Center

Objectives:

- Developing the sporting, artistic and cultural capabilities of university students, graduates and members of the Alexandrian community.
- Supporting university values through social, sports, physical and health care by practicing various sporting activities.
- Organizing sports, cultural and social activities for the university community according to the center's capabilities and goals.
- Teaching the principles and principles of practicing various sports activities to students, workers, faculty members, their children, and members of the Alexandrian community.
- Discovering the talents of the participants to benefit from them in representing the university or the Egyptian national team.

12. Languages and Translation Unit – Faculty of Arts

Objectives:

First: The center aims, through the Center for Teaching Arabic Language to Foreigners, to:

- spread the Arabic language, its civilization and culture, ancient and modern, outside the borders of the country.
- introduce ancient and modern Egyptian civilization through educational lessons, field visits to archaeological sites, and general educational lectures.
- conclude cultural agreements with a number of the most prestigious European and Asian universities.
- establish special courses for Muslim students in various Islamic republics.
- train non-Arab teachers to teach the Arabic language using modern technological means.
- help scholars and graduate students complete their research on teaching the Arabic language to non-native speakers.

Second: The center also aims, through the Center for Humanitarian Studies, to:

- pay attention to heritage and obtaining manuscripts of cultural value.
- organizing conferences and seminars that contribute to community service and environmental development.
- hold specialized training courses in the cultural, social and psychological fields.
- support studies and research on psychological and linguistic disabilities and treating their effects.
- adopt, preparing and implementing cultural projects and conducting research and measuring public opinion.

Third: The center also aims, through the activity of the Linguistic Studies and Translation Center, to:

- improve the level of university students and graduates in the national language and other languages by developing and implementing general programs for training courses to strengthen language skills.
- develop special language programs for different bodies, each according to their needs.
- review university theses, books, and linguistic research, and translating books, research, bulletins, and certificates.
- study linguistic topics and issues that are referred to or presented to the center.
- carry out an integrated translation project from and into Arabic to fill the gap in some areas of human knowledge.

Fourth: The activity of the Geographic Information Systems Center:

Community service and contribution to human development using geographic information systems (GIS) provide services in the fields of:-

- Managing and exploiting natural and human resources and creating maps and surveying works (marine and land).
- Economic and urban planning and its success in planning and managing public utility networks in cities (traffic networks, public utility networks, energy networks) and in the field of planning and managing educational services.
- Evaluating the effects resulting from environmental hazards and disaster management.

Link: <https://www.facebook.com/LTU.FOA>

13. Center for Legal and Economic Studies, Research and Services – Faculty of Law

Objectives:

- Providing legal and legal consultations, preparing and reviewing contracts and legal forms, preparing feasibility studies, and participating in arbitration and amicable settlement of disputes.
- Contributing to education and awareness of the law and developing capabilities to practice various aspects of legal activity.
- Documenting foreign laws and providing legal information.

- Organizing conferences and periodicals on topics related to the center's objectives and issuing bulletins and periodicals to educate and raise awareness of human duties and rights.

14. Center for research and commercial studies - Alexandria – Faculty of Commerce

Objectives:

- Supervising and coordinating with the college's scientific departments to implement computer-related study programs.
- Training students, graduates, and members of the Alexandrian community on computers, how to use them, programming, and different languages.
- Supervising the development of an information system for the college's administrative departments and other colleges and automating administrative work in all departments.
- Assisting research students at the master's and doctoral levels and faculty members in solving scientific problems using computers.
- Students use computers as an educational means that helps them comprehend scientific materials.
- Writing all forms, records and documents that are circulated in all administrative departments on computers and printing them in the college's printing press to save time, effort and cost.
- All student exams are printed in the college printing press on the same day of the exam, shortly before it begins, in order to preserve the confidentiality of the exam.
- Printing university textbooks and open education books and making them available at the beginning of the academic year.
- Providing commercial consultations in all specialties to the financial and business community.
- Providing student services in the field of providing books and various publications and preparing educational supplies and aids.
- Preparing and organizing qualification courses for various professional certificates in the commercial field and management information systems.
- Preparing and organizing trade courses and specialized exhibitions.
- Preparing and organizing language courses and their applications in the commercial field.
- Supervising the implementation of strengthening groups.
- Financial and administrative supervision of professional Master of Business Administration for executives.

Link: <https://www.facebook.com/crcs.fca?mibextid=9R9pXO>

15. Central Laboratory at the Faculty of Science

Objectives:

- Documenting cultural, scientific and applied ties with entities, bodies and companies.
- Using modern scientific methods.
- Contributing to solving problems related to industrial production.
- Conducting scientific studies and research aimed at solving society's problems related to production and service activities and companies at all local, Arab and international levels.

Link: <https://clu.alexu.edu.eg/index.php/en/>

<https://www.facebook.com/central.lab.Alex.Sci.EG?mibextid=ZbWKwL>

16. Electron microscope center at the Faculty of Science

Objectives:

- Serving researchers and graduate students in the biological, geological, medical and engineering fields by preparing and photographing samples as well as analyzing their components.
- Strengthening cultural and scientific ties with other universities and scientific bodies.
- Contributing to training researchers to use modern scientific methods by conducting modern training and technical courses on a regular basis.
- Making biological and other sectors, photographing and printing them.

Link: <https://www.facebook.com/profile.php?id=100057656911232&mibextid=ZbWKwL>

17. Computer and Microcomputer Center at the Faculty of Science

Objectives:

- Holding courses to serve researchers and graduate students at the university in scientific, technical and applied computers and various uses of computers and microcomputers to raise their productive efficiency.
- Organizing general courses on scientific and applied computers for the local community in the field of computers and microcomputers.
- Strengthening ties and cooperation with universities, national and international bodies and institutions to develop unity and exchange programs and expertise in the field of computers.
- Providing scientific consultations to industrial bodies and companies in the field of computers and its uses.

18. Medical analysis, examinations and diagnosis of occupational diseases center – Faculty of Medicine

Objectives:

- Evaluating the work environment and its impact on employees.
- Providing health services to factory workers and those exposed to occupational hazards.
- Providing the necessary consultations in occupational safety and health to factory doctors and industrial security officials in various companies.
- Conducting advanced research in the field of industrial medicine and occupational diseases.

19. Pharmaceutical and General Services Center – Faculty of Pharmacy

Objectives:

- Providing all pharmaceutical services to various productive sectors in the field of pharmacy and industries and holding conferences and scientific seminars to serve the pharmacists sector.
- Conducting pharmaceutical studies and research aimed at solving community problems, whether related to production activity or providing services.
- Strengthening scientific and cultural ties with other universities and scientific bodies at the Arab and international levels.
- Assisting the university in improving the college's general educational service.
- Conducting training courses in various pharmaceutical fields, providing expertise and advice to the pharmaceutical production sectors, and contributing to linking the university with society and industry.
- Holding training courses for graduates of colleges of pharmacy to raise the level of performance in community service.
- Implementing university projects and carrying out maintenance and repairs needed by the college.
- Conducting sample analysis for some pharmaceutical companies and providing research results to serve the pharmaceutical industry.
- Serving researchers and graduate students in preparing their research.

20. Center for Scientific Computing – Faculty of Engineering

Center objectives:

- Providing training courses in the field of computers and information systems.
- Providing technical consultations and advice in the field of computers, networks, control and information systems.
- Implementing private and public software for the benefit of the university and its branches and for the benefit of others.
- Carrying out systems analysis and design work.
- Carrying out integrated information systems work and supervising their implementation and operation.
- Conducting seminars and workshops in the field of computers, information systems and control systems.
- Follow up on the Internet.

21. Production Engineering Center – Faculty of Engineering

Objectives:

- Contributing to the projects of the university, its colleges and institutes.
- Carrying out maintenance work that falls within the center's jurisdiction.
- Training College of Engineering students on craft and technical skills in engineering fields.
- Holding training courses for college and university graduates and students in engineering fields, which increases their efficiency.
- Contributing to the training of some engineers and personnel of companies assisting in some production activities.
- Carrying out consulting work for others.
- Engineering evaluation of some projects.

22. Engineering Center for Public Service – Faculty of Engineering

Objectives:

- Holding training courses for companies and bodies in all branches of engineering sciences.
- Organizing scientific seminars and conferences at the internal and international levels.
- Providing engineering consultations and studies to bodies, companies and individuals.
- Providing laboratory tests for all engineering branches.
- Organizing job markets in cooperation with various companies with the aim of creating job opportunities for graduates.

Link: <https://www.facebook.com/EnglishCourseinAlexandria?mibextid=ZbWKwL>

23. Educational Services Center – Faculty of Education

Objectives:-

- Raising the level of performance and efficiency of workers in the field of education, whether they are teachers, mentors, managers, agents, or administrators, as well as those interested in the fields of scientific research.
- Educational professional development by providing programs to prepare and train workers in the educational field.
- Providing technical advice and the center's expertise to all parties and bodies interested in educational, pedagogical and development affairs in the fields of economics, administration, environment, population, media, and governmental and private educational institutions at home and abroad.
- Conducting scientific research and studies related to the areas of work of educational and development centers.
- Holding training programs in the fields of computers, information technology, and administrative and human development.
- Providing development programs, services and consultations in the fields of women's service, environmental protection, community development, health and social care.
- Organizing scientific seminars and conferences to address educational, development, and social issues.
- Providing libraries, laboratories, and laboratories with the requirements they need.
- Issuing and publishing research and studies related to the center's objectives and mission.
- Carrying out translation and publishing work for some foreign sources and references related to the center's mission and objectives.

Link: <https://www.facebook.com/groups/412741199678683/?ref=sharel>

24. Education and Public Service Center – Faculty of Dentistry

Objectives:

- Assisting the university in performing its mission in the fields of education, training and research.
- Preparing training courses in scientific departments to raise their scientific competencies.
- Preparing booklets that include continuing medical education and training programs and disseminating them at the university level.
- Improving the educational service and providing the center with modern equipment to raise the level of the center to keep pace with scientific progress.
- Addressing Egyptian and Arab universities to announce the possibility of scientific training at the highest level to acquire scientific and technical skills to raise the level of dentist's competence to keep pace with scientific progress.
- Strengthening cultural and scientific ties with other universities and scientific bodies at the Arab and international levels.

Link: <https://www.facebook.com/Dent.AlexU.Edu.Eg.Ar?mibextid=LQQJ4d>

25. Specialized Medical Treatment Center - Faculty of Dentistry

Objectives:

- Contributing to the treatment of community members using the latest scientific and environmental methods for nominal fees
- Providing a distinguished medical and therapeutic service through an elite group of professors in various dental specialties.
- Providing advanced treatment for children with special needs under general anesthesia.

- Receiving doctors coming from Arab countries to learn about the latest scientific techniques in the field of dentistry.
- Providing the opportunity for faculty members to provide distinguished treatment to community members at reasonable prices.
- Activating the college's own resources to develop the educational and research process.
- Providing research, scientific and medical services and contributions at the highest level in the field of dentistry.
- Reducing treatment expenses for university employees (professors - students - employees).
- Contributing to maintenance and repairs within the college.

Link: <https://www.facebook.com/Dent.AlexU.Edu.Eg.Ar?mibextid=LQQJ4d>

26. Poultry Production Unit - Faculty of Agriculture, Alexandria University

Objectives

The center includes the following activities:

First: Dairy and meat production center activity:

Activity objectives:

- Producing high-quality refrigerated milk and producing heifers of heifers or non-heifers, and working through this activity to spread this good breed (Holster breed) and produce cross-breeding, which can contribute to raising reproductive efficiency and the efficiency of milk production and the proportions of its components through artificial insemination of others.
- Conducting research aimed at identifying more means of developing and improving milk production in order to achieve the greatest possible return.
- Marketing the products obtained from the center's activities inside and outside the university.
- Creating a field for training and educating college students and assisting the university in performing its mission, whether in the field of education, training, or research.
- Conducting scientific studies or research aimed at solving societal problems, whether related to productive activity or providing services.
- Establishing a production model that is managed on the basis of market economics, in which purchases and sales are carried out at market prices and with the aim of employing research knowledge systems to maximize profit.
- Using this economic production model in teaching processes, whether for undergraduate or postgraduate students, and training graduates in the field of dairy animal nutrition.

Second: Poultry and feed production activity:

Activity objectives:

- Providing breeders and young graduates with scientific and technical consultations and feasibility studies in the fields of poultry and rabbit production and free practical training for young graduates at the Poultry Research Center to qualify them to undertake projects in the field of poultry and rabbit production.
- Providing the needs of small breeders and young graduates for hatching eggs and chicks from chickens, ducks, turkeys and quail with high production efficiency and immune to diseases.
- Manufacture of broiler and layer feeds with high-quality plant ingredients and free of animal concentrates.
- Providing rabbit breeders with a pure, highly productive breed (V Line) adapted to Egyptian environmental conditions. The Poultry Research Center is the only approved source for producing this breed in Egypt.
- Developing an adapted local rabbit breed by mixing Spanish rabbits with local rabbits, to meet the needs of breeders and consumers of colorful, highly productive breeds.
- Raising the production efficiency of meat and eggs of the Alexandrian chicken breed (a dual-purpose municipal breed) and disseminating it to small breeders and young graduates.
- Selling high-quality poultry products (chicken, duck, turkey, quail, and rabbit meat, and local table eggs) and plant feed through the sales outlet at the Poultry Research Center and the college.
- Providing support in the field of scientific research aimed at raising the production efficiency of local poultry breeds.

Link: <https://www.facebook.com/profile.php?id=100063577610808&mibextid=ZbWKwL>

27. Feed and fattening animals center - Faculty of Agriculture

Objectives:

- Producing diverse and distinct products through the center's various production activities and marketing these distinguished products at normal prevailing prices to serve the consumer inside and outside Alexandria University.
- Enriching the fields of training, education and guidance for students of the Department of Animal Production and the college, graduates, as well as farmers in neighboring villages.
- Establishing exemplary production patterns that are managed according to market economics and mechanisms and represent a role model for investors and young graduates.
- Employing the system of modern research and scientific knowledge in the field of animal production to obtain distinguished products that bring profit to these activities.
- Funding scientific research for faculty members, teaching assistants, and assistant teachers in the Animal Production Department and the college.
- Providing outstanding performance in the following areas:
 - Accommodating slaughter animals and feeding them in specialized wards for veal, lamb, lamb, and imported animals in preparation for slaughter and meat preparation.
 - Slaughtering and preparing carcasses for the Alexandria region and its suburbs while ensuring their quality and safety in accordance with the latest veterinary and health standards.
 - Providing the needs of university towns and summer camps at Alexandria University for excellent local meat at competitive prices in order to achieve the center's pioneering role in serving Alexandria University students.
 - Producing high-quality beef calves, buffalo, and sacrificial meat to meet the needs of the citizens of Alexandria, while providing slaughtering services at the slaughterhouse for those who wish.
 - Producing a mixture of mineral salts that must be added to animal feed to meet the needs of feed factories and breeders, at mixing ratios that achieve high growth rates for animals.
 - Producing the organic fertilizer "Hapi" from slaughter waste products, which is characterized by a high percentage of organic materials and nutrients necessary to raise soil fertility and nourish agricultural crops and ornamental house plants.
 - Maximizing the utilization of animal by-products such as skin, horns, hooves and blood.

28. Pest control and environmental protection center – Faculty of Agriculture

Objectives:

- Controlling various types of pests, whether those that attack plant and animal wealth of animal origin (such as insects - mites - rodents - snails - nematodes) or pests of plant origin (weeds - reeds - pests that cause plant diseases).
- Controlling pests that attack people and their property in homes, hotels, hospitals, industrial companies, ships, ships, silos, and the like.
- Analysis of conventional and radioactive pesticides and pollutants in food, crops, soil and water and estimation of their residues.
- Estimating the standard specifications of pesticides and their suitability for use and issuing suitability certificates to parties wishing to do so.
- Playing the role of an expert house by conducting feasibility studies for projects related to the production, processing and marketing of pesticides.
- Assisting in the university's performance of its mission in the field of training by contributing to the training of individuals and pesticide users - engineers, inspectors, agricultural extension workers, and industrial security personnel in industrial companies and petroleum companies to use modern scientific and technical methods in the use of pesticides to reach an increase in their production efficiency in the areas of their use of pesticides and to work to protect Protecting the environment from pollution by holding specialized training courses in the above fields.
- Contributing to the production of honey bee queens, parcels, and honey, and the manufacture of foundation wax for the purpose of spreading honey bee breeding in a sound manner, as well as the production of insects and other beneficial organisms.
- Training on a specific pest control system, and the use of modern scientific and technical methods to increase production efficiency.

- Providing scientific consultations related to insects and other animal pests, methods of combating them, protecting the environment, and beekeeping.
- It aims to provide many services that would support the educational capacity of the university by participating in financing the purchase of scientific equipment and research chemicals or in supporting graduate students and faculty members in attending scientific conferences and seminars.

Link:

https://m.facebook.com/story.php?story_fbid=783976126279390&substory_index=783976126279390&id=100085647697526&sfnsn=scwspwa&mibextid=RUbZ1f

29. Agricultural Industrialization Center - Faculty of Agriculture

Objectives: -

- Supplying cities, university hospitals, and other university facilities with high-quality, health-safe dairy products.
- Helping faculty members and graduate students in the department to complete scientific research by making the center's scientific equipment available to them to carry out that research.
- Assisting the department in completing practical lessons for students and introducing students to methods of manufacturing various dairy products.
- Organizing training courses on the manufacture of various dairy products and methods of analyzing them for those interested in the dairy industry.
- Training students of other universities on various dairy industries.
- Carrying out productive work for the benefit of others.

30. Ornamental plants and environmental beautification center - Faculty of Agriculture

Center objectives:

- Establishing a model farm for ornamental plants, seedlings, and bulbs that is managed economically, with the aim of teaching students profit-making management in this specialty.
- Working to finance research in this specialty from the profit revenues from the center's activity.
- Conducting seminars and training courses in the field of garden design and landscaping, maintenance of grass-cutting machines, etc. for engineers and technicians interested in this field.
- Implementing national projects in the field of afforestation, beautification and coordination of public squares and desert roads.
- Working to spread awareness of the beauty of ornamental plants and their role in the decoration of open public places or indoor and closed places, through various media, training courses (for a fee), and creating specifications for coordination and beautification works for gardens and tourist villages.
- Implementing the construction of roof gardens and internal coordination of public and private facilities.
- Integration with the departments of land, water, agricultural engineering, pesticides, plant diseases, economic insects, agricultural extension, and home economics in strengthening and making the center's production process successful to maximize profit.
- Providing practical services and applied expertise to others (for a fee).

31. Analysis and Scientific Services Center at the Faculty of Agriculture

Objectives:

- Overcoming the difficulties encountered by researchers at the college, university colleges, other universities, research centers and various bodies by conducting practical analyzes on the precise scientific equipment available in the central laboratory.
- Holding training courses for researchers at the college and outside it in the field of analysis methods and the use of precise scientific equipment
- Contributing to solving agricultural problems related to development, land reclamation, and the development of livestock, poultry and fish wealth, and agricultural systems, by providing scientific and judicial consultations to various bodies, as well as analyzing samples and preparing reports on that through the extension analysis laboratory and the land and water analysis laboratory.
- Diagnosing pests and diseases, developing integrated control programs and supervising their implementation.
- Conducting various analyzes related to the soil and making recommendations regarding the types of crops that can be found in it.

- Conducting water analyzes for irrigation and drainage and issuing a certificate of validity for this.
- Providing technical advice on agricultural operations by specialized professors.
- Estimating the elements, whether in the soil or in plants.
- Economic feasibility studies for small projects and large companies.

Link: <https://www.facebook.com/profile.php?id=100085463780175&mibextid=ZbWKwL>

32. Occupational Health and Air Pollution Research and Studies Center – High Institute of Public Health

Objectives:

- Training specialists in occupational safety and health from Egypt, the Middle East and Africa.
- Feasibility studies regarding the locations of industrial facilities and their environmental impact.
- Study of health problems in industrial societies and their relationship to the work environment and the external environment of the factory.
- Study air pollution problems and determine their sources and health and economic impacts.
- Studying the economics of methods of controlling environmental factors and their relationship to industrial changes, as well as designing appropriate control systems for each case and following up on their implementation, then evaluating their efficiency and effectiveness.
- Conducting advanced research in the field of occupational health, especially creating and developing methods for detecting and evaluating pollutants inside and outside the work environment and early detection of health changes that accompany these changes, as well as methods for evaluating physical exposures and detecting their impact.
- Providing research facilities for scholars and researchers in the fields of public health, especially in occupational health.
- Providing various medical services in the field of occupational medicine and early detection of occupational diseases.

Link: <https://hiph.alexu.edu.eg/index.php/ar/>

<https://hiph.alexu.edu.eg/index.php/en/>

33. Environmental health research, analysis and studies Unit (EHRAS Unit) – High Institute of Public Health

Objectives:

- Study and evaluate environmental problems, provide appropriate solutions to them, and help the university carry out its mission in the field of the environment.
- Providing services and high-tech laboratory analyzes to faculty members and graduate students at the Institute, other colleges and institutes at Alexandria University, other universities and various bodies.
- Training technical personnel working in the field of chemical and biological analyzes in ministries and various production and service sectors in Egypt and Arab countries.
- Cooperating with various companies in Alexandria Governorate to monitor the quality of production to ensure the quality of the Egyptian product and its compliance with Egyptian standard specifications.
- Finding solutions to environmental problems facing society, such as water pollution, industrial wastewater, and nutrition problems, to comply with environmental specifications, and providing technical consultations in the field of industry.
- Monitoring industrial facilities and natural resources from an environmental standpoint.
- Analysis of water samples from natural and treated sources.
- Cooperating with universities, research centers, and international and local laboratories in research projects and quality control programs to ensure the accuracy of the results.

Link: <https://www.facebook.com/profile.php?id=100076271716744&mibextid=ZbWKwL>

34. Training center – High Institute of Public Health

Objectives:

- Training those working in the field of public health at the Arab and international levels to raise their efficiency and develop their capabilities.
- Providing statistical analysis services for the research of faculty members and graduate students at the Institute, other colleges and institutes at the University of Alexandria and other universities, as well as for research projects that contribute to serving society and the environment.
- Providing services for writing academic theses and making graphs.
- Providing scientific consultations regarding the research plan, the size of the research sample, and different sample selection methods.
- Organizing training courses on the use of computers.
- Organizing courses to implement and operate e-learning programs.

Link: https://alexu.edu.eg/index.php/?option=com_content&view=article&id=5909&catid=21&lang=ar-AA

35. Central Laboratory Center for Advanced Environmental and Biological Analysis - High Institute of Public Health

Objectives:

- Providing laboratory analysis services with modern technology to faculty members and graduate students at the Institute and other colleges at Alexandria University.
- Providing laboratory analysis services and technical consultations to governmental bodies and institutions and public and private sector bodies and institutions with the aim of improving their products and maintaining their quality.
- Cooperation between universities, research centers and local and international laboratories in research projects and quality control programs to ensure the accuracy of the results.
- Accurate diagnosis of viral diseases and some bacterial and fungal diseases.
- Direct and accurate microscopic examination of microbes.
- Analysis of the basic components of foodstuffs (protein, fat, carbohydrate, ash and moisture content).
- Estimation of vitamins and preservatives in foodstuffs and estimation of hormones, enzymes, etc. in biological samples.
- Estimation of heavy metal residues in food, water, air and soil samples.
- Determination of mycotoxin residues in food materials and biological samples.

Link: <https://hiph.alexu.edu.eg/index.php/en/>

36. Veterinary Services Center – Faculty of Veterinary Medicine

Objectives:

- Producing and improving breeds of poultry, rabbits, quail, cattle and sheep, carrying out fish farming projects, developing other traditional products, manufacturing food products of animal origin, as well as producing non-traditional plants.
- Conducting a medical examination on farm animals as well as pets, providing veterinary care, and carrying out therapeutic medical convoys, providing treatment for a nominal fee in the governorates of Alexandria and Beheira and some neighboring governorates.
- Conducting veterinary examinations and analyses, bacterial, viral, parasitic, and histopathological tests, allergy tests, feed analysis, detection of poultry diseases, and examination of foods of animal origin, in order to serve breeders, farms, companies, agencies, and individuals.
- Conducting research aimed at increasing and improving productivity and treating diseases using the latest scientific methods.
- Holding training courses for newly graduated veterinarians and those working in this field to raise the scientific level and practical application, while training administrative cadres to manage production and service projects.

37. Medical Technology Center for Research and Services – Medical Research Center

Objectives:

- Assisting the university in performing its mission, whether in the field of training in the latest scientific techniques or research.
- Conducting scientific studies and research aimed at solving the problems of society and the surrounding environment.

- Contribute to training doctors and specialists to use the latest modern scientific technologies in the medical and research fields, with the aim of raising their scientific competence and preparing researchers and technicians in various scientific and medical fields.
- Providing research and laboratory facilities to faculty members at Alexandria University in implementing research projects for the university and its colleges and institutes by providing the latest advanced laboratories.
- Strengthening cultural and scientific ties with other universities and scientific bodies at the Arab and international levels and exchanging scientific experiences.
- Holding conferences or seminars that address topics that fall within the jurisdiction and objectives of the center that serves the surrounding environment.
- Expanding the areas of medical services that serve the residents of the region.
- Assisting production activity with scientific methods that lead to the development and creation of new methods that result in abundant, multiplied, and improved production.
- Providing diagnostic medical services and effectively assisting doctors in diagnosing diseases using the latest diagnostic devices.

38. Center for Graduate Studies and Research – Institute of Graduate Studies and Research

Objectives:

- Supporting connectivity with industrial and agricultural production sites and service destinations.
- Providing post-experience studies and providing specialized training courses in the fields of environment, biotechnology, materials technology and testing, and information technology.
- Contributing to the implementation of projects of the university and its affiliated colleges and institutes.
- Providing consultations to production and service entities.
- Conducting measurements and tests for various materials and environmental monitoring.
- Providing periodic information services through the Internet and information banks.
- Design advanced programs for information applications.

These various aspects are carried out through the following advisory groups:

1. Scientific Industrial Consulting Group:

This group includes professors specialized in various scientific and engineering fields who provide general industrial technical consultations regarding raw materials and ways to develop them, search for suitable local alternatives to them, as well as study means of production and the possibilities of modernizing them with the possibility of improving the product's properties to suit.

2. Advisory Group for Environmental Impact Studies, Auditing, Environmental Management Systems and Environmental Planning:

This group is concerned with integrated studies of the environmental impact of projects, in addition to the group conducting environmental audits for industrial companies, studying the environmental impact and providing advice to obtain the quality certificate (ISO).

3. Advisory Group for Remote Sensing and Geographic Information Systems:

The group provides expertise in the field of satellite image analysis and the use of geographic information bases to support decision-making. It also cooperates in many areas of monitoring coastal areas, planning and follow-up, in addition to identifying appropriate sites for projects within the framework of environmental impact studies.

4. Consultative Group for Environmental Meteorology:

This group is concerned with monitoring coastal areas, monitoring air pollutants in industrial areas, and satellite observations. The group has created geographical information bases for environmental meteorology over a period of six years using the latest calibration devices. The group also integrates with other groups to study the environmental impact of projects.

5. Information Technology Advisory Group:

This group provides expertise in information systems, network design, support and decision-making, as well as expert systems and automated control systems.

6. Advanced Construction Materials Advisory Group:

The group conducts advanced research and studies and provides technical consultations to companies and bodies working in the field of construction and development.

7. Advisory Group for Polymerized and Composite Materials:

The group measures the mechanical properties of polymers and their composite materials and determines the type of polymer in various plastic samples. It also studies production methods and appropriate raw materials, and determines the appropriate additives and methods of mixing them according to different uses.

8. Solid Waste Management Advisory Group:

The group provides consultations on the management of municipal, industrial and agricultural solid waste. It also holds scientific courses and seminars in this field and participates in research projects to provide the optimal method for treating these wastes.

9. Energy Conservation Advisory Group:

This group is concerned with reviewing energy in all its forms at all levels, such as measuring and analyzing exhaust gases in furnaces and boilers with the aim of improving combustion efficiency and reducing emissions, measuring and analyzing boiler water, in addition to tests of thermal insulation efficiency, lighting efficiency, electrical energy analysis, and compatibility with electrical loads. It also determines the power factor to increase efficiency. Rationalizing the energy used, reviewing energy use, radiation measurements and safety tests for radioactive sources. The group has a mobile laboratory that can visit sites and make environmental measurements related to energy as well as emissions and study energy consumption and the extent of thermal insulation in industrial sites.

10. Advisory Group for the Prevention of Environmental Hazards:

This group provides services for preventing harmful pests, whether insect pests, rodents, or weeds, and treating furniture using modern scientific methods and using safe materials.

11. Advisory Group for Water Analysis and Treatment:

This group includes several advanced laboratories, one of which is internationally calibrated. It also has a mobile laboratory and a boat equipped to take samples from various sources. This group provides water analysis services, whether drinking water, waste water, or industrial water, and determines its natural, chemical, and biological properties. It also provides consultations in the areas of water treatment. Sanitary and industrial wastewater, and also designs treatment centers and periodically monitors the work of biological centers. It also plays its role with other advisory groups in environmental impact studies and environmental review.

12. Air Pollution Advisory Group:

The group is interested in monitoring organic and inorganic gaseous emissions to determine air quality in residential and traffic-intensive industrial areas. It manages the national network of air pollutant monitoring stations in Alexandria and the Delta. It also provides consulting services to factories and agencies to determine air quality inside and outside the work environment and also control air pollutants.

13. Biotechnology Group:

The group organizes several seminars and theoretical and practical training courses in the field of genetic engineering - advanced techniques in identifying and isolating genes - protein engineering - bioinformatics - modern practical methods in molecular biology and molecular diagnosis.

14. Biological Analysis Center:

The center performs various types of biological analyses, such as microbiological, enzymatic, hormonal, pesticide residue, and toxicological tests.

15. Information and Applications Center:

The Center provides researchers with the service of searching databases for previous studies and provides the possibility of obtaining complete research assets. The Center also organizes a group of training courses in the field of computer applications and programming for individuals, companies, institutions and various bodies. The Center has an Internet forum connected to a high-speed digital line. The center has a group of specialists to assist in preparing and presenting research and reports using computer programs.

16. Encyclopedia of Egyptian Scientific Research:

The encyclopedia aims to provide a database for Egyptian and Arab scientific research in order to serve researchers in identifying ongoing research and research that still needs more research, which helps direct and rationalize applied research.

In this encyclopedia, the researcher will find complete information about every published scientific research or academic thesis, which includes the name of the author of the research or thesis, the title of the research or thesis (Master's or PhD), the college or institute in which this thesis was approved, the name of the journal in which the research was published, the year, volume number, and issue number. And pages.

39. Center for Services and Developing Technical and Architectural Skills – Faculty of Fine Arts

Objectives:

- Preparing preliminary studies for projects, as well as architectural and construction designs (such as sanitary, electricity, air conditioning, and site coordination), preparing technical specifications, general and special conditions, as well as quantities and specifications, and providing consultations, studies, reports, and information that enter into the various aspects of the center's activity.
- Providing technical assistance, participating in projects with public and private bodies and institutions, and supervising implementation.
- Conducting research and developing modern scientific methods and approaches in the field of architecture and arts to assist productive activity.
- Preparing technical and financial offers for projects in all different fields.
- Preparing a small studio, in which courses are prepared to qualify children from the age of five years in artistic skills such as drawing, sculpture, etc.
- Giving many training courses to prepare high school students and help them pass the architecture and arts aptitude exam.
- Preparing general courses for those wishing to develop interior architecture, decoration, and computer skills.
- Preparing experts to evaluate incoming and outgoing technical works at the Alexandria Sea and Air Port Authority.

Link: <https://m.facebook.com/FineArtsAlexandriaUniversity>

40. Sports Research and Information Center – Faculty of Physical Education for Boys

Objectives:

- Contributing to training community members to use modern scientific and technical methods in using computers.
- Contributing to the implementation of projects for universities, colleges and institutes affiliated with them.
- Providing advice and expertise in designing websites for colleges and educational bodies on the Internet.
- Assisting researchers in the field of scientific research and providing them with scientific advice.
- Contributing to transforming the College of Physical Education into an electronic college.

41. Fitness and Sports for All Unit at the College of Physical Education for Boys

Objectives:

- Providing various scientific courses (massage - injuries - technical preparation - studies in controlling various sports activities - sports marketing - management and organization) during the winter season for students and graduates.
- Qualifying and training students in rescue and diving activities in cooperation with the relevant authorities.
- Providing the possibility for students from the community surrounding the center to participate in various sporting activities through the summer club in exchange for a symbolic monthly subscription under the supervision of a group of qualified trainers.

Link: <https://www.facebook.com/profile.php?id=100063858544951&mibextid=ZbWKwL>

42. College of Physical Education Academies - Faculty of Physical Education for Girls

Objectives:

- Raising the physical and health level in various sports fields to maintain the general health of individuals and properly prepare future generations while learning to make good use of free time and organized thinking through the activity of the Summer Club for the children of Alexandria Governorate.
- Improving general fitness and maintaining fitness through a fitness center for neighborhood women.
- Conducting measurements for individuals and bodies and submitting reports in various measurement fields, while providing scientific equipment and places to hold training courses for various bodies.
- Developing skills in the field of computer use.
- Developing the awareness of residents of the local environment of the importance of the scientific fields offered by the college.
- Building a database to serve as an information bank that can be used in developing national and foreign programs in the fields of physical education and sports.
- Strengthening cultural and scientific ties with other universities and scientific bodies at the Arab and international levels.
- Contributing to the implementation of projects of the university and its affiliated colleges and institutes, providing them with their needs, and carrying out maintenance and repair work that falls within their jurisdiction.

- Contributing to training members of society to use modern scientific and artistic methods and teaching them in a way that achieves the advancement of thought, the advancement of science, the development of human values, and providing the state with specialists, technicians and experts in various sports fields.

Link: <https://www.facebook.com/fpeg2?mibextid=ZbWKwL>

43. Agricultural Services Center – Faculty of Agriculture – Saba Pasha

Objectives:

- Contributing and assisting with the university to fulfill its mission in the field of education and scientific research.
- Community service and environmental development.
- Holding training courses in agricultural fields and activities.
- Providing technical consultations in various agricultural fields.
- Conduct land and water analyses.

44. Educational Center for Childhood – Faculty of Education for Early Childhood

Objectives:

- Providing distinguished educational services for willing and participating children.
- Providing educational services that qualify families to deal with their children.
- Paying attention to the psychological, health and prevention aspects of children.
- Diagnosing cases of learning difficulty and developing appropriate treatment for them.
- Providing distinguished educational services to the Alexandrian community.
- The most important capabilities and achievements through the center's activities:
- First: The typical kindergarten for ordinary children, which includes halls:
- The PLAYSCHOOL hosting hall includes children from three to four years old.
- First level KG1 halls, which include children aged from four to five.
- The second level halls, KG2, includes children from five to six years old

Attention is paid to choosing the name, form and organization of the halls from an educational standpoint based on modern theories in the fields of child education and child psychology in order to achieve the goals. Emphasis is placed on the principle of integration of experience, starting from the connection of the hall and its organization in a form that is appropriate to this name, to the selection of children's identification cards in a way that is appropriate for each hall. It is expressed and work begins inside the halls with the corner system, and this is confirmed by modern educational trends by the necessity of dividing the children's hall into corners, in which the children are distributed according to their choice to work in it, and when it is finished, it moves to another corner, which is: -

o Science, nature or exploration corner:

It is one of the important pillars of the child's educational environment, as it contains objects and tools that help the child develop some scientific, mathematical concepts, linguistic and social skills through natural objects in order to create a wealth of information and answers to children's questions related to the environment surrounding them, which stimulates the child's desire to explore.

o Construction, Demolition and Cubes Corner:

The processes of construction, demolition, and assembly are of educational importance in training and educating the child on the cognitive, mathematical, scientific, and linguistic aspects at this stage, as it is possible to develop the child's abilities to match, sequence, arrange, and size, and their understanding of some scientific concepts, including balance and stability, and the development of the ability to visual discrimination and the ability to visual motor coordination, which It supports readiness skills for reading and writing, as it helps the child develop himself positively.

o Bridal Corner, Home Corner, or Family Coexistence Corner:

It is a corner where children practice imaginative play and play various social roles. It is a mini corner of the child's home where he does his favorite activities and the children perform the roles of family members and express many inner feelings that require linguistic communication, which makes them feel psychologically comfortable.

o Technical Corner:

It means the activities of expressive art, which are considered essential. It helps the child discover different colors and helps him express his feelings through training him to control the use of materials and tools. Through the child's ability to accomplish his tasks, his self-confidence increases.

o Music Corner:

With the musical instruments, the child repeats the songs that he listens to carefully, then sings them with the teacher, recording them and listening to his voice so that he can modify the song until he masters it and participates with his classmates in singing and playing, which gives the child the desired social skills and develops his sense of music.

o Library or reading corner:

It aimed to respond to the requirements, inclinations, and needs of children to read, read, practice listening skills, and follow proper office behaviors, and this is done through books and magazines through which children practice office activities.

o Kitchen corner:

It is one of the corners in which the child participates with his teacher in preparing some simple meals and foods, such as making a cake, preparing a food item, or raising the food item. Through these practices, the child learns many manners, behaviors, and scientific and social concepts. In this corner, the child has the opportunity to directly experience things, know them, and interact directly. With it, self-activity and involving all the child's senses in learning everything inside the kitchen, as the kitchen environment is considered a field of extensive experience in foods.

Second: The model kindergarten for children with special needs:

This kindergarten accepts children with special needs and provides them with various educational and rehabilitative programs that contribute to the child's readjustment and integration into normal life within the limits of his abilities and readiness.

Third: - Child health and psychological clinic:

Faculty members specialized in the health and psychological fields at the college take care of children, whether in the Childhood Educational Center or for children who wish to participate in the environment in general, through:

- Early detection of cases of physical and mental disability and referring some of them to the relevant authorities.
- Health treatment for kindergarten-age children.
- Early detection of behavioral and psychological disorders.
- Training college students to recognize medical conditions.

Recording cases in records to extract rates and patterns of growth and development of children in the surrounding environment (Alexandria Governorate) while preparing the required awareness programs for parents. The psychological and health clinic also works to provide many activities, including: -

- Division for measuring intelligence tests for children.
- Diagnosing and treating cases of learning difficulties.
- Diagnosing and treating behavioral and psychological problems.
- Conducting communication sessions to improve communication ability.

45. Public Service Center - Faculty of Specific Education

Objectives:

- Developing general taste and satisfying artistic and musical hobbies.
- Preparing cadres in the fields of artistic and musical professions for all segments of society of all ages.
- Providing technical assistance and holding exhibitions.
- Assisting the university in performing its mission in the field of education, training and production to contribute to serving the environment and society.
- Contributing to the implementation of projects of the university, its colleges and institutes in the field of the center's specialization.
- Organizing courses in arts and music for male and female high school students to qualify them for the aptitude tests that the college holds annually.
- Conducting research and developing modern scientific methods and methods in the fields of arts, music, and home economics to assist productive activity.
- Carrying out productive work for others.
- Training on collecting information, preparing art laboratories and studios, and using computers in the arts to serve the center's activity.

46. Public Service Center – faculty of Tourism and Hotels

Objectives:

- Assisting the university in performing its mission and supporting the educational process in accordance with the law regulating universities in the field of education, training or research, in accordance with what the law regulating universities stipulates in this regard.

- Providing the necessary consultations, studies and expertise to serve the tourism and hotel sector in the community.
- Holding and organizing training courses and workshops that aim to develop basic skills in the fields of tourism, hospitality, and tourist guidance to raise the efficiency of workers in the tourism field, such as training courses in booking airline tickets, TICKETING, tourism marketing, feasibility studies, • In the hotel field: training on the basics of hospitality, hotel business and services, front office management, food and beverage management...and others.
- In the field of tourism guidance: training tourist guides on the correct foundations of tourism guidance and learning about the tourist map of Egypt and the most important tourist and archaeological sites in Egypt.
- Holding specialized qualification courses in foreign languages (English - French - German - Italian - Spanish - Japanese - Hebrew - Russian) in a manner commensurate with the requirements of the tourism sector, which are all important languages and have qualified teachers at the college.
- management of tourist facilities, or others.

Total number of graduates with green jobs in the last 3 years is 56,001.

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2020/2021	Fine arts	594	410	Landscape designer (native plants, reducing water usage, and incorporating drought-resistant plants to create eco-friendly gardens and outdoor spaces) Sustainable Product Designer Green Architecture and Design Consultant Eco-Friendly Art Installation Specialist Sustainable Art Event Organizer Eco-Interior Designer	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Agriculture	1,729	1240	Sustainable Agriculture Consultant, Organic Crop Expert Organic Farming Expert Soil and Water Conservationist Renewable Energy Consultant for Agriculture Agricultural Waste Management Specialist Climate-Smart Agriculture Specialist Sustainable Livestock Manager	

2020/2021	Science	1576	1050	Marine Biologist and Conservation Scientist (Protect endangered species and their habitats, working with government agencies (such as Egyptian Environmental affairs agency)) Occupational Health and Safety Specialist Water Quality Scientist Recycling and Waste Management Specialist Renewable Energy Scientist Green Chemistry Researcher Environmental Chemist Air Quality Specialist Energy Storage Chemist Sustainable Materials Chemist Biofuel Scientist Waste-to-Energy Researcher	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Engineering	2729	1990	Electrical Engineering (Renewable Energy Engineer, Energy Efficiency Specialist) Architecture Engineer (Design buildings that are energy-efficient and environmentally friendly, often incorporating renewable energy sources, green building standards) Occupational Health and Safety Specialist (Develop and implement safety programs to ensure compliance with safety standards and protocols, emergency procedures, and the use of personal protective equipment) Sustainable Packaging Engineer	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Medicine	1382	610	Tropical medicine (medical professionals diagnose and treat diseases that are prevalent in tropical and subtropical regions) Public Health Environmental Specialist	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications

				Environmental Health Practitioner Climate Change and Health Researcher Sustainable Medical Supply Chain Manager Telemedicine Specialist	
2020/2021	Pharmacy	1162	570	Clinical Research Pharmacist (Development and testing of new medications and therapies) Green Pharmaceuticals Developer Phytochemist	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Dentistry	400	185	Dental Public Health Specialist (Promoting oral health and preventing dental diseases at the community level)	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Veterinary medicine	285	150	Clinical Veterinarian (Contributing to animal health promote environmental sustainability) Conservation Medicine Specialist One Health Veterinarian Eco-Friendly Veterinary Product Developer	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Tourism and hotels	177	125	Tourism (Tour guides lead groups through natural areas, educating them about the environment) Sustainable Resort Designer Sustainable Spa and Wellness Manager Cultural Heritage Conservation Manager (Tourism Focus)	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Computer and data science	0	0		Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Sport Education (Boys and Girls)	989	720	Sport Education Teacher Outdoor Recreation Specialist Sustainable Sports Researcher	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications

2020/2021	Arts	6661	3205	Environmental GIS Analyst Sustainable Urban Planner Water Resource Manager Sustainable Transportation Planner Content Creator Environmental Journalist Cultural Heritage and Environmental Preservation Advocate Environmental Translator	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Law	4929	1370	Climate Change Lawyer (focuses on cases related to climate policies, carbon emissions regulations) Urban Planning Lawyer Conservation Lawyer Agricultural Sustainability Lawyer Water Rights and Environmental Law Specialist Green Real Estate Lawyer	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Business	9891	1980	Green Marketing Manager Environmental Finance Specialist Sustainable Supply Chain Manager Green Entrepreneur Sustainable Business Consultant Environmental Risk Analyst Green Product Development Manager Green Investment Fund Manager Circular Economy Specialist Green Logistics Manager Environmental Accounting Specialist	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Education	2547	1750	Environmental Teacher Sustainable Development Education Advocate Climate Change Education Specialist Environmental Researcher in Education Green Technology Education Specialist Recycling Program Coordinator for Schools	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Specific Education	292	265	Sustainable Arts Education Coordinator Green Physical Education Teacher	Information and Documentation Center for Decision Support at Alexandria University,

				Special Needs Environmental Educator	Alumni Database, and personal communications
2020/2021	Education of Early Childhood	416	356	Environmental Educator for Young Children Green Classroom Coordinator Community Garden Educator Sustainable Play Space Designer Healthy Living and Nutrition Educator Sustainable Arts Educator Child Development and Environmental Behavior Specialist	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Economic and political science	418	195	Environmental Policy Analyst Sustainability Consultant Climate Change Policy Advisor Environmental Economist Green Business Development Manager Urban Planner with a Sustainability Focus Sustainable Development Goals (SDGs) Coordinator Green Public Policy Consultant	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2020/2021	Nursing & Technical Institute to Nursing	1,008	785	Community Health Nurse Sustainability Consultant in Healthcare Infection Control Nurse Nurse Researcher in Environmental Health	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
Total		37705	16,956 (44.97%)		

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2021/2022	Fine arts	1107	466	Landscape designer (native plants, reducing water usage, and incorporating drought-resistant plants to create eco-friendly gardens and outdoor spaces) Sustainable Product Designer Green Architecture and Design Consultant Eco-Friendly Art Installation Specialist Sustainable Art Event Organizer Eco-Interior Designer	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Agriculture	1810	412	Sustainable Agriculture Consultant, Organic Crop Expert Organic Farming Expert Soil and Water Conservationist Renewable Energy Consultant for Agriculture Agricultural Waste Management Specialist Climate-Smart Agriculture Specialist Sustainable Livestock Manager	

2021/2022	Science	1651	796	Marine Biologist and Conservation Scientist (Protect endangered species and their habitats, working with government agencies (such as Egyptian Environmental affairs agency)) Occupational Health and Safety Specialist Water Quality Scientist Recycling and Waste Management Specialist Renewable Energy Scientist Green Chemistry Researcher Environmental Chemist Air Quality Specialist Energy Storage Chemist Sustainable Materials Chemist Biofuel Scientist Waste-to-Energy Researcher	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Engineering	2849	684	Electrical Engineering (Renewable Energy Engineer, Energy Efficiency Specialist) Architecture Engineer (Design buildings that are energy-efficient and environmentally friendly, often incorporating renewable energy sources, green building standards) Occupational Health and Safety Specialist (Develop and implement safety programs to ensure compliance with safety standards and protocols, emergency procedures, and the use of personal protective equipment) Sustainable Packaging Engineer	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Medicine	1560	674	Tropical medicine (medical professionals diagnose and treat diseases that are prevalent in tropical and subtropical regions) Public Health Environmental Specialist	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications

				Environmental Health Practitioner Climate Change and Health Researcher Sustainable Medical Supply Chain Manager Telemedicine Specialist	
2021/2022	Pharmacy	1065	396	Clinical Research Pharmacist (Development and testing of new medications and therapies) Green Pharmaceuticals Developer Phytochemist	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Dentistry	568	236	Dental Public Health Specialist (Promoting oral health and preventing dental diseases at the community level)	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Veterinary medicine	287	129	Clinical Veterinarian (Contributing to animal health promote environmental sustainability) Conservation Medicine Specialist One Health Veterinarian Eco-Friendly Veterinary Product Developer	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Tourism and hotels	375	180	Tourism (Tour guides lead groups through natural areas, educating them about the environment) Sustainable Resort Designer Sustainable Spa and Wellness Manager Cultural Heritage Conservation Manager (Tourism Focus)	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Computer and data science	0	0		Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Sport Education (Boys and Girls)	1250	950	Sport Education Teacher Outdoor Recreation Specialist Sustainable Sports Researcher	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications

2021/2022	Arts	8894	3560	Environmental GIS Analyst Sustainable Urban Planner Water Resource Manager Sustainable Transportation Planner Content Creator Environmental Journalist Cultural Heritage and Environmental Preservation Advocate Environmental Translator	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Law	5029	1100	Climate Change Lawyer (focuses on cases related to climate policies, carbon emissions regulations) Urban Planning Lawyer Conservation Lawyer Agricultural Sustainability Lawyer Water Rights and Environmental Law Specialist Green Real Estate Lawyer	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Business	9686	4140	Green Marketing Manager Environmental Finance Specialist Sustainable Supply Chain Manager Green Entrepreneur Sustainable Business Consultant Environmental Risk Analyst Green Product Development Manager Green Investment Fund Manager Circular Economy Specialist Green Logistics Manager Environmental Accounting Specialist	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Education	2560	1590	Environmental Teacher Sustainable Development Education Advocate Climate Change Education Specialist Environmental Researcher in Education Green Technology Education Specialist Recycling Program Coordinator for Schools	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Specific Education	378	310	Sustainable Arts Education Coordinator Green Physical Education Teacher	Information and Documentation Center for Decision Support at Alexandria University,

				Special Needs Environmental Educator	Alumni Database, and personal communications
2021/2022	Education of Early Childhood	483	320	Environmental Educator for Young Children Green Classroom Coordinator Community Garden Educator Sustainable Play Space Designer Healthy Living and Nutrition Educator Sustainable Arts Educator Child Development and Environmental Behavior Specialist	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Economic and political science	468	210	Environmental Policy Analyst Sustainability Consultant Climate Change Policy Advisor Environmental Economist Green Business Development Manager Urban Planner with a Sustainability Focus Sustainable Development Goals (SDGs) Coordinator Green Public Policy Consultant	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2021/2022	Nursing & Technical Institute to Nursing	1151	435	Community Health Nurse Sustainability Consultant in Healthcare Infection Control Nurse Nurse Researcher in Environmental Health	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
Total		41171	16,588 (40.29%)		
Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2022/2023	Fine arts	594	249	Landscape designer (native plants, reducing water usage, and incorporating drought- resistant plants to create eco-friendly gardens and outdoor spaces) Sustainable Product Designer Green Architecture and Design Consultant	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications

				Eco-Friendly Art Installation Specialist Sustainable Art Event Organizer Eco-Interior Designer	
2022/2023	Agriculture	1594	353	Sustainable Agriculture Consultant, Organic Crop Expert Organic Farming Expert Soil and Water Conservationist Renewable Energy Consultant for Agriculture Agricultural Waste Management Specialist Climate-Smart Agriculture Specialist Sustainable Livestock Manager	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2022/2023	Science	1560	890	Marine Biologist and Conservation Scientist (Protect endangered species and their habitats, working with government agencies (such as Egyptian Environmental affairs agency)) Occupational Health and Safety Specialist	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2022/2023	Engineering	2114	1529	Electrical Engineering (Renewable Energy Engineer, Energy Efficiency Specialist) Architecture Engineer (Design buildings that are energy-efficient and environmentally friendly, often incorporating renewable energy sources, green building standards) Occupational Health and Safety Specialist (Develop and implement safety programs to ensure compliance with safety standards and protocols, emergency procedures, and the use of personal protective equipment) Sustainable Packaging Engineer Environmental Engineer Sustainable Design Engineer Water Resources Engineer Wind Energy Engineer	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications

				Solar Energy Engineer Sustainable Urban Planning Engineer Waste Management Engineer Hydroelectric Power Engineer Carbon Capture and Storage (CCS) Engineer	
2022/2023	Medicine	2829	1207	Tropical medicine (medical professionals diagnose and treat diseases that are prevalent in tropical and subtropical regions) Public Health Environmental Specialist Environmental Health Practitioner Climate Change and Health Researcher Sustainable Medical Supply Chain Manager Telemedicine Specialist	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2022/2023	Pharmacy	1006	492	Clinical Research Pharmacist (Development and testing of new medications and therapies) Green Pharmaceuticals Developer Phytochemist	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2022/2023	Dentistry	600	250	Dental Public Health Specialist (Promoting oral health and preventing dental diseases at the community level)	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2022/2023	Veterinary medicine	382	196	Clinical Veterinarian (Contributing to animal health promote environmental sustainability) Conservation Medicine Specialist One Health Veterinarian Eco-Friendly Veterinary Product Developer	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2022/2023	Tourism and hotels	406	252	Tourism (Tour guides lead groups through natural areas, educating them about the environment) Green Hotel Manager Green Infrastructure Developer (Tourism)	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications

				Sustainable Resort Designer Sustainable Spa and Wellness Manager Cultural Heritage Conservation Manager (Tourism Focus)	
2022/2023	Computer and data science	295	244	Data analyst (analyse data to develop and implement sustainability, track metrics related to energy use, carbon emissions, and resource efficiency) Sustainability Data Analyst Smart Grid Data Analyst Sustainable Cloud Computing Engineer AI and Machine Learning Specialist Energy Efficiency Software Engineer Sustainable Cybersecurity Specialist	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2022/2023	Sport Education (Boys and Girls)	1807	1250	Sport Education Teacher Outdoor Recreation Specialist Sustainable Sports Researcher	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2022/2023	Arts	8705	6500	Environmental GIS Analyst Sustainable Urban Planner Water Resource Manager Sustainable Transportation Planner Content Creator Environmental Journalist Cultural Heritage and Environmental Preservation Advocate	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2022/2023	Law	2793	1085	Climate Change Lawyer (focuses on cases related to climate policies, carbon emissions regulations) Urban Planning Lawyer Conservation Lawyer Agricultural Sustainability Lawyer Water Rights and Environmental Law Specialist Green Real Estate Lawyer	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2022/2023	Business	7500	4850	Green Marketing Manager Environmental Finance Specialist	Information and Documentation Center for Decision Support at Alexandria University,

				Sustainable Supply Chain Manager Green Entrepreneur Sustainable Business Consultant Environmental Risk Analyst Green Product Development Manager Green Investment Fund Manager Circular Economy Specialist Green Logistics Manager Environmental Accounting Specialist	Alumni Database, and personal communications
2022/2023	Education	2963	1750	Environmental Teacher Sustainable Development Education Advocate Climate Change Education Specialist Environmental Researcher in Education Green Technology Education Specialist Recycling Program Coordinator for Schools	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2022/2023	Specific Education	318	240	Sustainable Arts Education Coordinator Green Physical Education Teacher Special Needs Environmental Educator	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2022/2023	Education of Early Childhood	415	290	Environmental Educator for Young Children Green Classroom Coordinator Community Garden Educator Sustainable Play Space Designer Healthy Living and Nutrition Educator Sustainable Arts Educator Child Development and Environmental Behavior Specialist	Information and Documentation Center for Decision Support at Alexandria University, Alumni Database, and personal communications
2022/2023	Economic and political science	450	240	Environmental Policy Analyst Sustainability Consultant Climate Change Policy Advisor Environmental Economist Green Business Development Manager	

				Urban Planner with a Sustainability Focus Sustainable Development Goals (SDGs) Coordinator Green Public Policy Consultant	
2022/2023	Nursing & Technical Institute to Nursing	1179	590	Community Health Nurse Sustainability Consultant in Healthcare Infection Control Nurse Nurse Researcher in Environmental Health	
Total		37510	22,457 (59.87%)		

- Total number of graduates with green jobs in the last 3 years is 56,001.
- For the graduated students of the academic year 2023/2024, we are currently tracking their employment records.

Availability of unit(s) or office(s) that coordinate sustainability on campus

 <p>E-exam الاختبارات الالكترونية</p> <p>riham hassan</p> <p>181 responses</p>	 <p>مرحلة البكالوريوس -- استمارة المتابعة اليومية للعملية الامتحانية نهاية فصل الخريف</p> <p>riham hassan</p> <p>2869 responses</p>	 <p>مرحلة الدراسات العليا--استمارة المتابعة الـ يومية للعملية الامتحانية نهاية فصل الخريف</p> <p>riham hassan</p> <p>1912 responses</p>
---	--	---

Assessment Center (Alexandria University, Egypt)

1-E-exam

2- Daily follow-up form for the educational process for the undergraduate studies.

3- Daily follow-up form for the educational process for the potgraduate studies.

 <p>Item club week 3</p> <p>Item club 3 القطاع الطبي</p>	 <p>Item club week 3</p> <p>Item club 3 العلوم الأساسية</p>	 <p>Item club week 3</p> <p>Item club 3 العلوم الإنسانية</p>	 <p>Item club week 3</p> <p>Item club week الهئية المعاونة</p>	 <p>Item club week 3</p> <p>Item club week القطاع العلوم الإنسانية</p>
 <p>Item club week 3</p> <p>Item club week القطاع العلوم الأساسية</p>	 <p>Item club week 3</p> <p>Item club week القطاع الصحي</p>	 <p>Item club week 3</p> <p>Item club 3 العلوم الإنسانية</p>	 <p>Item club week 3</p> <p>Item club 3 العلوم الأساسية والتطبيقية</p>	 <p>Item club week 3</p> <p>Item club 3 القطاع الصحي</p>

Assessment Center (Alexandria University, Egypt): Weekly follow-up form for the educational process for the undergraduate and postgraduate courses during the semester.

 <p>غرفة المتخصص الإلكتروني</p>	 <p>غرفة المتخصص الإلكتروني</p>
 <p>غرفة المتخصص الإلكتروني</p>	 <p>غرفة المتخصص الإلكتروني</p>

Assessment Center (Alexandria University, Egypt): Weekly follow-up form for the educational process for the undergraduate and postgraduate courses during the semester.

Description:

The sustainability policy and plan of Alexandria University encompass several important points, one of the most significant being the digital transformation. The digital transformation of all administrative and academic activities at the university will contribute to enhancing environmental sustainability by reducing the consumption of natural resources and minimizing negative environmental impacts. As a result, it is one of the university's priorities, and digital transformation has already begun in one of the university's practices, specifically the Measurement and Evaluation Units, where it has proven to be clearly successful. The

achievements in this area will be presented under the criteria of educational systems, learning, research, and sustainability.

Attached is the general framework for the university's digital transformation, along with the Measurement and Evaluation Center as a practical example, as well as some images illustrating its implementation and sustainability:

Alexandria University began its serious efforts to develop processes in preparation for digitalization in 2017, when the Development, Monitoring, and Administrative Reform Committee was established to analyze processes, eliminate waste, and save the university's resources. The committee also reviewed the integration and unification of documents for the various processes at Alexandria University and its faculties. The digital transformation of the measurement and evaluation system at Alexandria University began in 2018.

Due to the large scale of operations at Alexandria University and its faculties, being a prestigious institution with millions of graduates and serving an annual average of 250,000 undergraduate and postgraduate students, the administrative departments and sections at Alexandria University and its faculties deal with numerous parties and services. These operations require a vast number of steps, procedures, and documents to provide services to all concerned university parties, including faculty members and their assistants, staff, students, graduates, and others. In alignment with the vision of the university's senior management to transform Alexandria University and its faculties into a **"Smart University"**, efforts have been directed to serve this vision across all operations in general and in the measurement and evaluation system specifically. These efforts include:

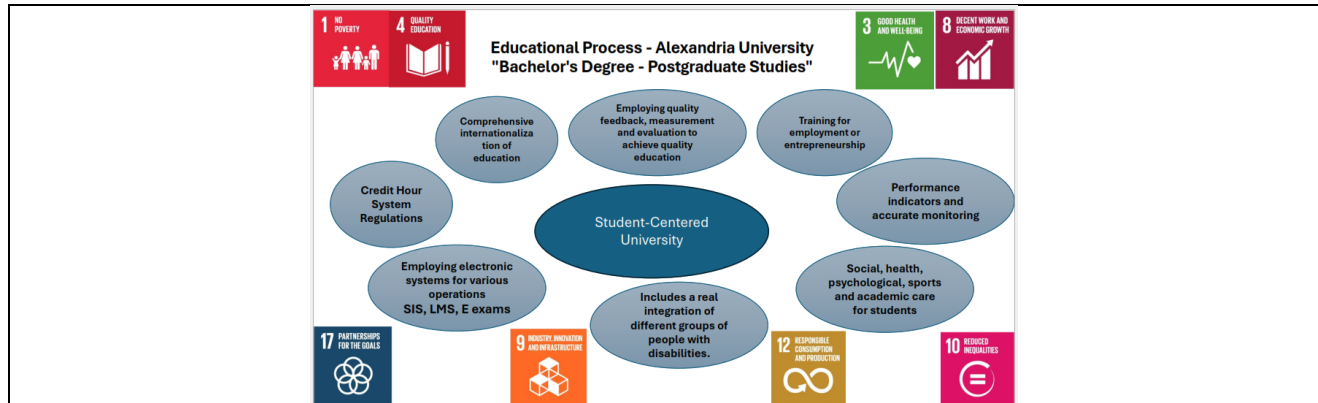
1. Defining the scope of the study: "The examination process, from planning exam committees to approving the final results after addressing appeals," for both written and non-written tests.
2. Studying the direct and indirect processes related to the examination process.
3. Reviewing the legal dimensions and previous decisions related to the process.
4. Analyzing the processes and studying improvements to eliminate waste.
5. Assessing the requirements in terms of tools, equipment, and necessary technology.
6. Prioritizing cost-saving initiatives and identifying unconventional sources of funding. For example, the Educational Development Projects Management Unit funded 4 projects before 2018 to establish measurement and evaluation units (the university completed the remaining units from its own resources), and 3 more projects after 2018 for the digital transformation of evaluation processes in three faculties. The university also completed the remaining faculties with its own efforts, utilizing the resources of the electronic testing project, with the latest funding amounting to EGP 3,799,519. The outputs reached an advanced level in areas such as question banks and the use of modern applications in practical tests.
7. Conducting feasibility studies for development and piloting the implementation.
8. Implementing the system across 24 faculties and research institutes, with more than 300 faculty members now working within this system.
9. Ongoing monitoring and continuous development of all observations with corrective and/or preventive actions through February 2024.

Last visit to follow up on the examination process Fall 2023

<https://docs.google.com/spreadsheets/d/1QTjjS5cTr1nGCCOLQIOjrCeY7pV4zNGN-OPCz7c0NKk/edit?usp=sharing>

Description: his significant development in the infrastructure has played a clear role in advancing the electronic correction system, question banks, and training. The center did not limit its efforts to the direct and indirect examination processes, but also took on the role of evaluating other processes, most importantly the educational process. It set standards and performance indicators to assess these processes, whether they are

conducted face-to-face in classrooms, remotely, or through various forms of blended learning. Attached are images for clarification President and discussed in the appropriate councils. Alexandria University began its efforts in electronic exams at the Faculty of Medicine, where there is an outstanding center for electronic exams.



Alexandria University offers a group of courses related to the environment and sustainability in various sectors, in line with the state's strategies to achieve sustainable development goals and to achieve the goals of linking science with industry and qualifying the graduate to find job opportunities commensurate with the field of specialization. The university works to qualify the graduate by providing various awareness and training programs during the study period. The university also provides a distinguished group of postgraduate programs that are compatible with their counterparts in international universities, as indicated by the indicator data for this standard.



Alexandria University has three University Centers for Career Development (UCCD), at the Faculty of Engineering, Faculty of Education and the Faculty of Buisness



Faculty of Science, Alexandria University Receives Delegation of German Academic Exchange Service (DAAD)



Center of Excellence for Research in Regenerative Medicine and Applications



**مركز خدمة المجتمع -
جامعة الإسكندرية**

37K likes • 39K followers

Message

Like

Alexandria University Community Development Center (AUCDC)
Center for Community Service and English Language for Special Purposes & Alexandria university press
<https://www.facebook.com/AUCDCenter/>

Description:

- Identifying the training needs of society and helping to achieve them and translate them into scientific programs.
- Organizing continuing education programs to provide continuing educational opportunities with the aim of developing sectors of society to interact with development programs and develop them in accordance with scientific developments.
- Preparing and implementing cooperative education programs to provide scientific expertise to community groups in the work and production sectors.
- Organizing study and training courses on an ongoing basis throughout the year in the center's various activities.
- Organizing free studies to meet the needs of the environment and society, including individuals and bodies, in various fields of knowledge, culture of environmental awareness, and information technology.
- Providing summer courses for English teachers in language schools to improve several skills such as pronunciation and listening, and holding special workshops for language school teachers.
- Providing a long-term course for non-specialized English language teachers in agreement with the Ministry of Education to graduate specialized English language teachers.
- Preparing a TOEFL program to qualify the student to take the international TOEFL exam, which is held at the American Center.
- Preparing special programs for postgraduate students in the Colleges of Physical Education for Boys and Girls, as well as the College of Nursing, to raise their level in the language so that they can use English references in their studies.
- Participation in scientific seminars and conferences inside and outside the country.



Alexandria University has 12 Hospitals which provides services for the Faculty Members, students and the community

Description:

- Alexandria University's Faculty of Medicine covers an area of 225,867 square meters across all its branches, including the main university medical complex, Shatby, Hadra, Smouha, Mowasat, and Borg El Arab.
- Alexandria University operates 12 hospitals.
- The total student lecture hall area amounts to 12,443.36 square meters of the faculty's total area.
- The Alexandria University medical complex consists of seven buildings, including the academic building, internal medicine building, surgery building, conference center, training center, outpatient clinics, and the new university hospital building, with a total area of 77,154 square meters.
- The Shatby Hospital has one building dedicated to the obstetrics and gynecology department, covering a total area of 33,288 square meters.
- The Hadra Hospital consists of two buildings for orthopedic surgery and neuropsychiatry, with a total area of 21,975 square meters.

- The Smouha Hospital includes two buildings for emergency care and pediatrics, covering a total area of 23,691 square meters.
- The Mowasat Hospital contains eighteen lecture rooms, with a total area of 23,104 square meters.
- The university hospital has 22 outpatient clinics serving as treatment units across all faculties.



الرؤية — VISION —

تفعيل دور البحث العلمي وربطه بالصناعة ودعم اللغة بينهما لحل المشكلات بناء على طلب الصناعة ودعم الابتكار والتكنولوجيا في المجالات ذات الأهمية طفاً للرؤية القومية وصولاً إلى ريادة الأعمال ب تطوير أعمال شركات صناعية قائمة وإنشاء صناعات هضرة ومبتدئة

• مكتب للمثل التكنولوجيا
TTO, TECHNOLOGY TRANSFER OFFICE

• مكتب متابعة المشروعات البحثية والتعرف بفرص التمويل والتعاون الدولي
GICO, GRANT AND INTERNATIONAL COOPERATION OFFICE

• مكتب دعم الابتكار والتكنولوجيا من خلال الملكية الفكرية وبراءات الاختراع
TISC, TECHNOLOGY INNOVATION SUPPORT CENTER

المهمة — MISSION —

• تفعيل ودعم دور الجامعة لحل مشكلات الصناعة ونصبة التكنولوجيا


• العمل على نقل وتطوير نتائج الأبحاث والدراسات والابتكارات والاكتراعات إلى جهات التطبيق في النطاق الجغرافي كالمسقية الأولى وفي نطاق الدولة من خلال شبكة الربط بين المكاتب المختلفة من خلال أكاديمية البحث العلمي والتكنولوجيا

• دعم تشجيع الصناعة لبناء اللغة والمشاركة الفعالة مع البحث العلمي تأثيراً وتأثيراً بنهي قصص نجاح ونشر عنها

CONTACT US

جدة الهندسة رقم ادلة المشروعات: ٥٥٥ ٥٥٥
03-59073847
TICO@ALEXU.EDU.EG
WWW.TICO.ALEXU.EDU.EG

Projects are monitored through the GICO Office. In the event of obtaining a preliminary model for any innovation and the desire to market it, the TICO Office, the University's Office for Innovation Support and Technology Transfer and Marketing, follows up and supports the researchers.



جامعة الإسكندرية قهرس مكاتب جامعة الإسكندرية

Phone Email Twitter Facebook

الصفحة الرئيسية عن الوحدة الخدمات أدوات اتصل بنا احجز موعد

وحدة المكتبة الرقمية

من المعرفة إلى الابتكار...

أحد مشاريع تطوير التعليم داخل الجامعة يهدف ميكنة مكاتب الجامعة وتطوير العمل بها وإتاحة جميع مقتنيات وخدمات المكتبات في صورة رقمية، وذلك في إطار مشروع تطوير التعليم العالي في جمهورية مصر العربية، حيث تم بناء اتحاد المكتبات الجامعية المصرية EULC في بداية عام 2006م والذي تشرف عليه وحدة المكتبات الرقمية بالمجلس الأعلى للجامعات، كأحد الوحدات التابعة لمركز الخدمات الإلكترونية والمعرفية بالمجلس الأعلى للجامعات.

Website: <https://dlib-alexu.com/>

One of the educational development projects within the university aims to automate the university libraries and enhance their operations, providing all library collections and services in digital form. This is part of the Higher Education Development Project in the Arab Republic of Egypt. The Egyptian Universities Libraries Consortium (EULC) was established at the beginning of 2006 under the supervision of the Digital Libraries Unit at the Supreme Council of Universities, as one of the units affiliated with the Electronic and Knowledge Services Center at the Supreme Council of Universities.



Description: Program Objectives

- To continue the role of the Safety Unit at the Faculties in raising awareness about occupational safety and health (OSH).
- To implement OSH requirements across all buildings and departments of the Faculties.
- To provide students with hands-on application of the OSH course, which now meets the needs of the job market for our promising youth.
- To continue the summer activities of the unit.

Conditions for Joining the Team

Students must have completed the OSH course.

Program Goals

The program includes five main activities:

- 1- Lectures: Delivered by specialists in OSH.
- 2- Workshops: Covering topics such as first aid, fire safety, etc., related to OSH.
- 3- Field Visits: To various companies to observe how OSH requirements are applied in different establishments.
- 4- On-site Training at the Faculty: Training is conducted under the supervision of a coordinator from each department. It includes applying OSH requirements within the faculty and its departments to prevent various occupational hazards. Activities may include:
 - 5- Organizing and cataloging chemicals (both electronic and paper versions) in the faculty's laboratories.
 - 6- Preparing Material Safety Data Sheets (MSDS) for hazardous chemicals.
 - 7- Surveying safety equipment across the faculty's departments (e.g., different types of fire extinguishers, sand buckets, first-aid kits, emergency signs, etc.).
- 8- Electronic Activities involve the following tasks:
 - Preparing a guide for implementing safety requirements using local and international references.
 - Learning how to prepare emergency and evacuation plans, along with team organization.
 - Learning how to manage and dispose of waste, its types, and the mechanisms used (references).
 - Understanding how to prevent and respond to fires (different causes).
 - Designing and distributing a survey to assess the awareness of general safety requirements among the faculty's students, then analyzing the results.
 - Developing lab safety guidelines (during and after experiments) based on specializations—chemistry, physics, computer science, geology, and biology.
 - Creating and designing awareness videos (infographics).
 - Preparing a first-aid guide.

Student Activities Service Center

Description:

- Developing the sporting, artistic and cultural capabilities of university students, graduates and members of the Alexandrian community.
- Supporting university values through social, sports, physical and health care by practicing various sporting activities.
- Organizing sports, cultural and social activities for the university community according to the center's capabilities and goals.
- Teaching the principles and principles of practicing various sports activities to students, workers, faculty members, their children, and members of the Alexandrian community.
- Discovering the talents of the participants to benefit from them in representing the university or the Egyptian national team.

Languages and Translation Unit – Faculty of Arts

Description:

First: The center aims, through the Center for Teaching Arabic Language to Foreigners, to:

- spread the Arabic language, its civilization and culture, ancient and modern, outside the borders of the country.
- introduce ancient and modern Egyptian civilization through educational lessons, field visits to archaeological sites, and general educational lectures.

- conclude cultural agreements with a number of the most prestigious European and Asian universities.
- establish special courses for Muslim students in various Islamic republics.
- train non-Arab teachers to teach the Arabic language using modern technological means.
- help scholars and graduate students complete their research on teaching the Arabic language to non-native speakers.

Second: The center also aims, through the Center for Humanitarian Studies, to:

- pay attention to heritage and obtaining manuscripts of cultural value.
- organizing conferences and seminars that contribute to community service and environmental development.
- hold specialized training courses in the cultural, social and psychological fields.
- support studies and research on psychological and linguistic disabilities and treating their effects.
- adopt, preparing and implementing cultural projects and conducting research and measuring public opinion.

Third: The center also aims, through the activity of the Linguistic Studies and Translation Center, to:

- improve the level of university students and graduates in the national language and other languages by developing and implementing general programs for training courses to strengthen language skills.
- develop special language programs for different bodies, each according to their needs.
- review university theses, books, and linguistic research, and translating books, research, bulletins, and certificates.
- study linguistic topics and issues that are referred to or presented to the center.
- carry out an integrated translation project from and into Arabic to fill the gap in some areas of human knowledge.

Fourth: The activity of the Geographic Information Systems Center:

Community service and contribution to human development using geographic information systems (GIS) provide services in the fields of:-

- Managing and exploiting natural and human resources and creating maps and surveying works (marine and land).
- Economic and urban planning and its success in planning and managing public utility networks in cities (traffic networks, public utility networks, energy networks) and in the field of planning and managing educational services.
- Evaluating the effects resulting from environmental hazards and disaster management.

Link: <https://www.facebook.com/LTU.FOA>

Center for research and commercial studies - Alexandria – Faculty of Commerce

Description:

- Supervising and coordinating with the college's scientific departments to implement computer-related study programs.
- Training students, graduates, and members of the Alexandrian community on computers, how to use them, programming, and different languages.
- Supervising the development of an information system for the college's administrative departments and other colleges and automating administrative work in all departments.
- Assisting research students at the master's and doctoral levels and faculty members in solving scientific problems using computers.
- Students use computers as an educational means that helps them comprehend scientific materials.
- Writing all forms, records and documents that are circulated in all administrative departments on computers and printing them in the college's printing press to save time, effort and cost.
- All student exams are printed in the college printing press on the same day of the exam, shortly before it begins, in order to preserve the confidentiality of the exam.
- Printing university textbooks and open education books and making them available at the beginning of the academic year.
- Providing commercial consultations in all specialties to the financial and business community.
- Providing student services in the field of providing books and various publications and preparing educational supplies and aids.
- Preparing and organizing qualification courses for various professional certificates in the commercial field and management information systems.
- Preparing and organizing trade courses and specialized exhibitions.
- Preparing and organizing language courses and their applications in the commercial field.
- Supervising the implementation of strengthening groups.

- Financial and administrative supervision of professional Master of Business Administration for executives.

Link: <https://www.facebook.com/crcs.fca?mibextid=9R9pXO>

Central Laboratory at the Faculty of Science

Description:

- Documenting cultural, scientific and applied ties with entities, bodies and companies.
- Using modern scientific methods.
- Contributing to solving problems related to industrial production.
- Conducting scientific studies and research aimed at solving society's problems related to production and service activities and companies at all local, Arab and international levels.

Link: <https://clu.alexu.edu.eg/index.php/en/>

<https://www.facebook.com/central.lab.Alex.Sci.EG?mibextid=ZbWKwL>

Electron microscope center at the Faculty of Science

Description:

- Serving researchers and graduate students in the biological, geological, medical and engineering fields by preparing and photographing samples as well as analyzing their components.
- Strengthening cultural and scientific ties with other universities and scientific bodies.
- Contributing to training researchers to use modern scientific methods by conducting modern training and technical courses on a regular basis.
- Making biological and other sectors, photographing and printing them.

Link: <https://www.facebook.com/profile.php?id=100057656911232&mibextid=ZbWKwL>

Computer and Microcomputer Center at the Faculty of Science

Description:

- Holding courses to serve researchers and graduate students at the university in scientific, technical and applied computers and various uses of computers and microcomputers to raise their productive efficiency.
- Organizing general courses on scientific and applied computers for the local community in the field of computers and microcomputers.
- Strengthening ties and cooperation with universities, national and international bodies and institutions to develop unity and exchange programs and expertise in the field of computers.
- Providing scientific consultations to industrial bodies and companies in the field of computers and its uses.

Medical analysis, examinations and diagnosis of occupational diseases center – Faculty of Medicine

Description:

- Evaluating the work environment and its impact on employees.
- Providing health services to factory workers and those exposed to occupational hazards.
- Providing the necessary consultations in occupational safety and health to factory doctors and industrial security officials in various companies.
- Conducting advanced research in the field of industrial medicine and occupational diseases.

Center for Scientific Computing – Faculty of Engineering

Description:

- Providing training courses in the field of computers and information systems.
- Providing technical consultations and advice in the field of computers, networks, control and information systems.
- Implementing private and public software for the benefit of the university and its branches and for the benefit of others.
- Carrying out systems analysis and design work.
- Carrying out integrated information systems work and supervising their implementation and operation.
- Conducting seminars and workshops in the field of computers, information systems and control systems.
- Follow up on the Internet.

Production Engineering Center – Faculty of Engineering

Description:

- Contributing to the projects of the university, its colleges and institutes.
- Carrying out maintenance work that falls within the center's jurisdiction.
- Training College of Engineering students on craft and technical skills in engineering fields.
- Holding training courses for college and university graduates and students in engineering fields, which increases their efficiency.
- Contributing to the training of some engineers and personnel of companies assisting in some production activities.
- Carrying out consulting work for others.
- Engineering evaluation of some projects.

Engineering Center for Public Service – Faculty of Engineering

Description:

- Holding training courses for companies and bodies in all branches of engineering sciences.
- Organizing scientific seminars and conferences at the internal and international levels.
- Providing engineering consultations and studies to bodies, companies and individuals.
- Providing laboratory tests for all engineering branches.
- Organizing job markets in cooperation with various companies with the aim of creating job opportunities for graduates.

Link: <https://www.facebook.com/EnglishCourseinAlexandria?mibextid=ZbWKwL>

Education and Public Service Center – Faculty of Dentistry

Objectives:

- Assisting the university in performing its mission in the fields of education, training and research.
- Preparing training courses in scientific departments to raise their scientific competencies.
- Preparing booklets that include continuing medical education and training programs and disseminating them at the university level.
- Improving the educational service and providing the center with modern equipment to raise the level of the center to keep pace with scientific progress.
- Addressing Egyptian and Arab universities to announce the possibility of scientific training at the highest level to acquire scientific and technical skills to raise the level of dentist's competence to keep pace with scientific progress.
- Strengthening cultural and scientific ties with other universities and scientific bodies at the Arab and international levels.

Link: <https://www.facebook.com/Dent.AlexU.Edu.Eg.Ar?mibextid=LQQJ4d>

Specialized Medical Treatment Center - Faculty of Dentistry

Description:

- Contributing to the treatment of community members using the latest scientific and environmental methods for nominal fees
- Providing a distinguished medical and therapeutic service through an elite group of professors in various dental specialties.
- Providing advanced treatment for children with special needs under general anesthesia.
- Receiving doctors coming from Arab countries to learn about the latest scientific techniques in the field of dentistry.
- Providing the opportunity for faculty members to provide distinguished treatment to community members at reasonable prices.
- Activating the college's own resources to develop the educational and research process.
- Providing research, scientific and medical services and contributions at the highest level in the field of dentistry.
- Reducing treatment expenses for university employees (professors - students - employees).

- Contributing to maintenance and repairs within the college.

Link: <https://www.facebook.com/Dent.AlexU.Edu.Eg.Ar?mibextid=LQQJ4d>

Poultry Production Unit - Faculty of Agriculture, Alexandria University

Description:

The center includes the following activities:

First: Dairy and meat production center activity:

Activity objectives:

- Producing high-quality refrigerated milk and producing heifers of heifers or non-heifers, and working through this activity to spread this good breed (Holster breed) and produce cross-breeding, which can contribute to raising reproductive efficiency and the efficiency of milk production and the proportions of its components through artificial insemination of others.
- Conducting research aimed at identifying more means of developing and improving milk production in order to achieve the greatest possible return.
- Marketing the products obtained from the center's activities inside and outside the university.
- Creating a field for training and educating college students and assisting the university in performing its mission, whether in the field of education, training, or research.
- Conducting scientific studies or research aimed at solving societal problems, whether related to productive activity or providing services.
- Establishing a production model that is managed on the basis of market economics, in which purchases and sales are carried out at market prices and with the aim of employing research knowledge systems to maximize profit.
- Using this economic production model in teaching processes, whether for undergraduate or postgraduate students, and training graduates in the field of dairy animal nutrition.

Second: Poultry and feed production activity:

Activity objectives:

- Providing breeders and young graduates with scientific and technical consultations and feasibility studies in the fields of poultry and rabbit production and free practical training for young graduates at the Poultry Research Center to qualify them to undertake projects in the field of poultry and rabbit production.
- Providing the needs of small breeders and young graduates for hatching eggs and chicks from chickens, ducks, turkeys and quail with high production efficiency and immune to diseases.
- Manufacture of broiler and layer feeds with high-quality plant ingredients and free of animal concentrates.
- Providing rabbit breeders with a pure, highly productive breed (V Line) adapted to Egyptian environmental conditions. The Poultry Research Center is the only approved source for producing this breed in Egypt.
- Developing an adapted local rabbit breed by mixing Spanish rabbits with local rabbits, to meet the needs of breeders and consumers of colorful, highly productive breeds.
- Raising the production efficiency of meat and eggs of the Alexandrian chicken breed (a dual-purpose municipal breed) and disseminating it to small breeders and young graduates.
- Selling high-quality poultry products (chicken, duck, turkey, quail, and rabbit meat, and local table eggs) and plant feed through the sales outlet at the Poultry Research Center and the college.
- Providing support in the field of scientific research aimed at raising the production efficiency of local poultry breeds.

Link: <https://www.facebook.com/profile.php?id=100063577610808&mibextid=ZbWKwL>

Feed and fattening animals center - Faculty of Agriculture

Description:

- Producing diverse and distinct products through the center's various production activities and marketing these distinguished products at normal prevailing prices to serve the consumer inside and outside Alexandria University.
- Enriching the fields of training, education and guidance for students of the Department of Animal Production and the college, graduates, as well as farmers in neighboring villages.
- Establishing exemplary production patterns that are managed according to market economics and mechanisms and represent a role model for investors and young graduates.

- Employing the system of modern research and scientific knowledge in the field of animal production to obtain distinguished products that bring profit to these activities.
- Funding scientific research for faculty members, teaching assistants, and assistant teachers in the Animal Production Department and the college.
- Providing outstanding performance in the following areas:
 - Accommodating slaughter animals and feeding them in specialized wards for veal, lamb, lamb, and imported animals in preparation for slaughter and meat preparation.
 - Slaughtering and preparing carcasses for the Alexandria region and its suburbs while ensuring their quality and safety in accordance with the latest veterinary and health standards.
 - Providing the needs of university towns and summer camps at Alexandria University for excellent local meat at competitive prices in order to achieve the center's pioneering role in serving Alexandria University students.
 - Producing high-quality beef calves, buffalo, and sacrificial meat to meet the needs of the citizens of Alexandria, while providing slaughtering services at the slaughterhouse for those who wish.
 - Producing a mixture of mineral salts that must be added to animal feed to meet the needs of feed factories and breeders, at mixing ratios that achieve high growth rates for animals.
 - Producing the organic fertilizer "Hapi" from slaughter waste products, which is characterized by a high percentage of organic materials and nutrients necessary to raise soil fertility and nourish agricultural crops and ornamental house plants.
 - Maximizing the utilization of animal by-products such as skin, horns, hooves and blood.

Pest control and environmental protection center – Faculty of Agriculture

Description:

- Controlling various types of pests, whether those that attack plant and animal wealth of animal origin (such as insects - mites - rodents - snails - nematodes) or pests of plant origin (weeds - reeds - pests that cause plant diseases).
- Controlling pests that attack people and their property in homes, hotels, hospitals, industrial companies, ships, ships, silos, and the like.
- Analysis of conventional and radioactive pesticides and pollutants in food, crops, soil and water and estimation of their residues.
- Estimating the standard specifications of pesticides and their suitability for use and issuing suitability certificates to parties wishing to do so.
- Playing the role of an expert house by conducting feasibility studies for projects related to the production, processing and marketing of pesticides.
- Assisting in the university's performance of its mission in the field of training by contributing to the training of individuals and pesticide users - engineers, inspectors, agricultural extension workers, and industrial security personnel in industrial companies and petroleum companies to use modern scientific and technical methods in the use of pesticides to reach an increase in their production efficiency in the areas of their use of pesticides and to work to protect Protecting the environment from pollution by holding specialized training courses in the above fields.
- Contributing to the production of honey bee queens, parcels, and honey, and the manufacture of foundation wax for the purpose of spreading honey bee breeding in a sound manner, as well as the production of insects and other beneficial organisms.
- Training on a specific pest control system, and the use of modern scientific and technical methods to increase production efficiency.
- Providing scientific consultations related to insects and other animal pests, methods of combating them, protecting the environment, and beekeeping.
- It aims to provide many services that would support the educational capacity of the university by participating in financing the purchase of scientific equipment and research chemicals or in supporting graduate students and faculty members in attending scientific conferences and seminars.

Link:

https://m.facebook.com/story.php?story_fbid=783976126279390&substory_index=783976126279390&id=100085647697526&sfnsn=scwspwa&mibextid=RUBZ1f

Ornamental plants and environmental beautification center - Faculty of Agriculture

Description:

- Establishing a model farm for ornamental plants, seedlings, and bulbs that is managed economically, with the aim of teaching students profit-making management in this specialty.
- Working to finance research in this specialty from the profit revenues from the center's activity.
- Conducting seminars and training courses in the field of garden design and landscaping, maintenance of grass-cutting machines, etc. for engineers and technicians interested in this field.
- Implementing national projects in the field of afforestation, beautification and coordination of public squares and desert roads.
- Working to spread awareness of the beauty of ornamental plants and their role in the decoration of open public places or indoor and closed places, through various media, training courses (for a fee), and creating specifications for coordination and beautification works for gardens and tourist villages.
- Implementing the construction of roof gardens and internal coordination of public and private facilities.
- Integration with the departments of land, water, agricultural engineering, pesticides, plant diseases, economic insects, agricultural extension, and home economics in strengthening and making the center's production process successful to maximize profit.
- Providing practical services and applied expertise to others (for a fee).

Analysis and Scientific Services Center at the Faculty of Agriculture

Description:

- Overcoming the difficulties encountered by researchers at the college, university colleges, other universities, research centers and various bodies by conducting practical analyzes on the precise scientific equipment available in the central laboratory.
- Holding training courses for researchers at the college and outside it in the field of analysis methods and the use of precise scientific equipment
- Contributing to solving agricultural problems related to development, land reclamation, and the development of livestock, poultry and fish wealth, and agricultural systems, by providing scientific and judicial consultations to various bodies, as well as analyzing samples and preparing reports on that through the extension analysis laboratory and the land and water analysis laboratory.
- Diagnosing pests and diseases, developing integrated control programs and supervising their implementation.
- Conducting various analyzes related to the soil and making recommendations regarding the types of crops that can be found in it.
- Conducting water analyzes for irrigation and drainage and issuing a certificate of validity for this.
- Providing technical advice on agricultural operations by specialized professors.
- Estimating the elements, whether in the soil or in plants.
- Economic feasibility studies for small projects and large companies.

Link: <https://www.facebook.com/profile.php?id=100085463780175&mibextid=ZbWKwL>

Veterinary Services Center – Faculty of Veterinary Medicine

Description:

- Producing and improving breeds of poultry, rabbits, quail, cattle and sheep, carrying out fish farming projects, developing other traditional products, manufacturing food products of animal origin, as well as producing non-traditional plants.
- Conducting a medical examination on farm animals as well as pets, providing veterinary care, and carrying out therapeutic medical convoys, providing treatment for a nominal fee in the governorates of Alexandria and Beheira and some neighboring governorates.
- Conducting veterinary examinations and analyses, bacterial, viral, parasitic, and histopathological tests, allergy tests, feed analysis, detection of poultry diseases, and examination of foods of animal origin, in order to serve breeders, farms, companies, agencies, and individuals.
- Conducting research aimed at increasing and improving productivity and treating diseases using the latest scientific methods.

- Holding training courses for newly graduated veterinarians and those working in this field to raise the scientific level and practical application, while training administrative cadres to manage production and service projects.

Medical Technology Center for Research and Services – Medical Research Center

Description:

- Assisting the university in performing its mission, whether in the field of training in the latest scientific techniques or research.
- Conducting scientific studies and research aimed at solving the problems of society and the surrounding environment.
- Contribute to training doctors and specialists to use the latest modern scientific technologies in the medical and research fields, with the aim of raising their scientific competence and preparing researchers and technicians in various scientific and medical fields.
- Providing research and laboratory facilities to faculty members at Alexandria University in implementing research projects for the university and its colleges and institutes by providing the latest advanced laboratories.
- Strengthening cultural and scientific ties with other universities and scientific bodies at the Arab and international levels and exchanging scientific experiences.
- Holding conferences or seminars that address topics that fall within the jurisdiction and objectives of the center that serves the surrounding environment.
- Expanding the areas of medical services that serve the residents of the region.
- Assisting production activity with scientific methods that lead to the development and creation of new methods that result in abundant, multiplied, and improved production.
- Providing diagnostic medical services and effectively assisting doctors in diagnosing diseases using the latest diagnostic devices.

Fitness and Sports for All Unit at the College of Physical Education for Boys

Description:

- Providing various scientific courses (massage - injuries - technical preparation - studies in controlling various sports activities - sports marketing - management and organization) during the winter season for students and graduates.
- Qualifying and training students in rescue and diving activities in cooperation with the relevant authorities.
- Providing the possibility for students from the community surrounding the center to participate in various sporting activities through the summer club in exchange for a symbolic monthly subscription under the supervision of a group of qualified trainers.

Link: <https://www.facebook.com/profile.php?id=100063858544951&mibextid=ZbWKwL>

College of Physical Education Academies - Faculty of Physical Education for Girls

Description:

- Raising the physical and health level in various sports fields to maintain the general health of individuals and properly prepare future generations while learning to make good use of free time and organized thinking through the activity of the Summer Club for the children of Alexandria Governorate.
- Improving general fitness and maintaining fitness through a fitness center for neighborhood women.
- Conducting measurements for individuals and bodies and submitting reports in various measurement fields, while providing scientific equipment and places to hold training courses for various bodies.
- Developing skills in the field of computer use.
- Developing the awareness of residents of the local environment of the importance of the scientific fields offered by the college.
- Building a database to serve as an information bank that can be used in developing national and foreign programs in the fields of physical education and sports.
- Strengthening cultural and scientific ties with other universities and scientific bodies at the Arab and international levels.
- Contributing to the implementation of projects of the university and its affiliated colleges and institutes, providing them with their needs, and carrying out maintenance and repair work that falls within their jurisdiction.

- Contributing to training members of society to use modern scientific and artistic methods and teaching them in a way that achieves the advancement of thought, the advancement of science, the development of human values, and providing the state with specialists, technicians and experts in various sports fields.

Educational Center for Childhood – Faculty of Education for Early Childhood

Description:

- Providing distinguished educational services for willing and participating children.
- Providing educational services that qualify families to deal with their children.
- Paying attention to the psychological, health and prevention aspects of children.
- Diagnosing cases of learning difficulty and developing appropriate treatment for them.
- Providing distinguished educational services to the Alexandrian community.
- The most important capabilities and achievements through the center's activities:
- First: The typical kindergarten for ordinary children, which includes halls:
- The PLAYSCHOOL hosting hall includes children from three to four years old.
- First level KG1 halls, which include children aged from four to five.
- The second level halls, KG2, includes children from five to six years old

Attention is paid to choosing the name, form and organization of the halls from an educational standpoint based on modern theories in the fields of child education and child psychology in order to achieve the goals. Emphasis is placed on the principle of integration of experience, starting from the connection of the hall and its organization in a form that is appropriate to this name, to the selection of children's identification cards in a way that is appropriate for each hall. It is expressed and work begins inside the halls with the corner system, and this is confirmed by modern educational trends by the necessity of dividing the children's hall into corners, in which the children are distributed according to their choice to work in it, and when it is finished, it moves to another corner, which is: -

o Science, nature or exploration corner:

It is one of the important pillars of the child's educational environment, as it contains objects and tools that help the child develop some scientific, mathematical concepts, linguistic and social skills through natural objects in order to create a wealth of information and answers to children's questions related to the environment surrounding them, which stimulates the child's desire to explore.

o Construction, Demolition and Cubes Corner:

The processes of construction, demolition, and assembly are of educational importance in training and educating the child on the cognitive, mathematical, scientific, and linguistic aspects at this stage, as it is possible to develop the child's abilities to match, sequence, arrange, and size, and their understanding of some scientific concepts, including balance and stability, and the development of the ability to visual discrimination and the ability to visual motor coordination, which It supports readiness skills for reading and writing, as it helps the child develop himself positively.

o Bridal Corner, Home Corner, or Family Coexistence Corner:

It is a corner where children practice imaginative play and play various social roles. It is a mini corner of the child's home where he does his favorite activities and the children perform the roles of family members and express many inner feelings that require linguistic communication, which makes them feel psychologically comfortable.

o Technical Corner:

It means the activities of expressive art, which are considered essential. It helps the child discover different colors and helps him express his feelings through training him to control the use of materials and tools. Through the child's ability to accomplish his tasks, his self-confidence increases.

o Music Corner:

With the musical instruments, the child repeats the songs that he listens to carefully, then sings them with the teacher, recording them and listening to his voice so that he can modify the song until he masters it and participates with his classmates in singing and playing, which gives the child the desired social skills and develops his sense of music.

o Library or reading corner:

It aimed to respond to the requirements, inclinations, and needs of children to read, read, practice listening skills, and follow proper office behaviors, and this is done through books and magazines through which children practice office activities.

o Kitchen corner:

It is one of the corners in which the child participates with his teacher in preparing some simple meals and foods, such as making a cake, preparing a food item, or raising the food item. Through these practices, the child learns many manners, behaviors, and scientific and social concepts. In this corner, the child has the opportunity to directly experience things,

know them, and interact directly. With it, self-activity and involving all the child's senses in learning everything inside the kitchen, as the kitchen environment is considered a field of extensive experience in foods.

Second: The model kindergarten for children with special needs:

This kindergarten accepts children with special needs and provides them with various educational and rehabilitative programs that contribute to the child's readjustment and integration into normal life within the limits of his abilities and readiness.

Third: - Child health and psychological clinic:

Faculty members specialized in the health and psychological fields at the college take care of children, whether in the Childhood Educational Center or for children who wish to participate in the environment in general, through:

- Early detection of cases of physical and mental disability and referring some of them to the relevant authorities.
- Health treatment for kindergarten-age children.
- Early detection of behavioral and psychological disorders.
- Training college students to recognize medical conditions.

Recording cases in records to extract rates and patterns of growth and development of children in the surrounding environment (Alexandria Governorate) while preparing the required awareness programs for parents. The psychological and health clinic also works to provide many activities, including: -

- Division for measuring intelligence tests for children.
- Diagnosing and treating cases of learning difficulties.
- Diagnosing and treating behavioral and psychological problems.
- Conducting communication sessions to improve communication ability.

Public Service Center - Faculty of Specific Education

Description:

- Developing general taste and satisfying artistic and musical hobbies.
- Preparing cadres in the fields of artistic and musical professions for all segments of society of all ages.
- Providing technical assistance and holding exhibitions.
- Assisting the university in performing its mission in the field of education, training and production to contribute to serving the environment and society.
- Contributing to the implementation of projects of the university, its colleges and institutes in the field of the center's specialization.
- Organizing courses in arts and music for male and female high school students to qualify them for the aptitude tests that the college holds annually.
- Conducting research and developing modern scientific methods and methods in the fields of arts, music, and home economics to assist productive activity.
- Carrying out productive work for others.

Training on collecting information, preparing art laboratories and studios, and using computers in the arts to serve the center's activity.

Distinguished Scientific Publishing Office

Description:

In the framework of university support to research activity and to encourage researcher to publish scientific researches in international indexed magazines that shall contribute in raising the scientific research level in the university and improving the university international rank, Alexandria University Council issued its decree no.19 for 2007 regarding scientific research publishing. Also the Council issued its decree no.2 for 2008 regarding scientific research bonus.

After researchers' interest in scientific research support and publishing bonus, the university established the Distinguished Scientific Publishing Office on 2008. It also issued organizing decrees for distinguished scientific publishing bonus in university council decree no.11 for 2010 with amendment no.13 for 2009. Alexandria university press.



The Center of Excellence for Water is a USAID- funded program, managed by the American University in Cairo.

Its goal is to catalyze long-term improvement in Egyptian water resources management by improving its innovative applied research and educated enterprise.

Located at Alexandria University, and in cooperation with four Egyptian Universities (Ain Shams University – Aswan University – Beni Suef University – Zagazig University) and four U.S. Universities (University of California, Santa Cruz, Temple University, Utah State University, and Washington State University), The Center of Excellence for Water is designed to be a state-of-the-art center that raises the quality of all aspects of higher education, including curriculum, teaching, and applied research to international standards.

The Center supports the Egyptian government, academia, and industry to address water challenges, and prepare a new generation of graduates and entrepreneurs to be change agents that stimulate economic growth.

Leveraging on the public-private partnerships established, the Center of Excellence for Water will be the hub for research and a vibrant network of Egyptian industries, research centers, and ministries.

Link: <https://www.coew-grantportal.info/#/landing>

مركز المعلومات والتوثيق ودعم اتخاذ القرار
Information, Documentary and Decision Support Center



A Statement of Centers of Excellence- Alexandria University 2024

Faculty	Center name
Medical Research Institute	Health Governance Unit - Medical Technology Center for Research and Services
Faculty of Medicine	Epilepsy Center at Samouha Hospital
	Pediatric Dialysis Center at Samouha Hospital
	Medical Research Center
	Toxicology Center
	Pediatric Cardiac Catheterization Center
	Clinical Research Center
	Borg El Arab Hospital Pediatric Cancer Center
	Marrow Transplant Center 2013
	Kidney Transplant Center 2015
	Mouwasah Liver Transplant Center
	Spine Surgery Center in Mouwasah
	Samouha Hospital Internal Stroke Center
	Samouha Hospital Cardiac Catheterization Center
	Clinical Genomics Center
	Clinical Genetics Laboratory at Samouha Hospital
	Samouha Hospital Gastrointestinal Endoscopy Center
	Respiratory Endoscopy Center at Samouha Hospital
	Pediatric Ophthalmology Center at the Faculty of Medicine
	Faculty of Medicine Training Center
	Gynecological Oncology Center at Shatby University Hospital
Faculty of Engineering	New Water Excellence Center
Faculty of Specific Education	Public Service Center of Excellence
Faculty of Dentistry	Center of Excellence for Dentists
Faculty of Arts	Center for Maritime Archaeology and Submerged Cultural Heritage
Faculty of Science	Earth Observation & Data Science (ESSDS)
	Center of Excellence in Quantum Computing
	Center for Sustainable Development & Governance
	Biological Scanning and Preclinical Studies Laboratory

Issued By
Nagwa/Rham

Acting Assistant
University Secretary for Administrative Affairs
Dr. Nadira Sobhy Mohamed

A Statement of Centers of Excellence-Alexandria University 2024

Description:

The botanical garden (ALEX) at the Faculty of Science

- The Botanical Garden (ALEX) at the Faculty of Science in Moharram Bey, Alexandria University, was established in 1942. It is one of Egypt's richest scientific gardens, with over 500 plant species from various global regions. The garden supports both education and research, serving students from multiple faculties by providing hands-on learning in plant sciences like morphology, anatomy, and classification. It also houses four greenhouses, allowing cultivation of tropical and foreign plants.

- In the open areas of the garden, various trees and seasonal annuals are planted, providing students with a complete opportunity to study these different plant types. What makes the garden of heritage and environmental importance is that it contains plants from different geographical regions: tropical, subtropical, temperate, and some Egyptian and Arab species. Some of these species are rare, and others are threatened with extinction and degradation. The botanical garden's activities are not limited to education but extend to scientific research. The garden provides researchers from the departments of Botany, Zoology, and Marine Sciences with the facilities to conduct their research, continuing its mission of serving science.
- Currently, the garden is one of the richest scientific gardens in Egypt, with its diverse plant species. Internationally recognized and registered with the International Association of Botanical Gardens, ALEX actively participates in global conservation efforts, including preserving endangered species and maintaining a seed bank. A comprehensive inventory of species is underway, along with conservation efforts for rare plants. The garden holds significant environmental and heritage value due to its collection of rare and diverse species.
- A book cataloging 500 species is being published, supporting the garden's educational and research mission. Therefore, scientifically cataloging and identifying them is a preservation of this heritage. This is in addition to the primary goal for which the garden was established: educating students, scholars, and researchers in basic sciences, practicing and observing them practically to understand the value of this natural wealth and preserve it for continuous benefit. Therefore, they have been collected and classified in a book containing approximately 500 plant species, including ferns, conifers, gymnosperms, and angiosperms, in more than 540 pages supported by original colored photographs, which is now under publication.

[https://www.alexu.edu.eg/index.php/2016-04-02-06-46-52/university-museums/science-ar#:~:text=%D9%88%D8%AA%D9%82%D8%B9%20%D8%A7%D9%84%D8%AD%D8%AF%D9%8A%D9%82%D8%A9%20%D8%A7%D9%84%D8%B1%D8%A6%D9%8A%D8%B3%D9%8A%D8%A9%20%D8%AC%D9%86%D9%88%D8%A8%D9%8A%20%D9%85%D8%A8%D9%86%D9%89,%D8%AF%D9%88%D9%84%D9%8A%D8%A7%D9%8B%20%D8%AA%D8%AD%D8%AA%20%D8%A7%D8%B3%D9%85%20\(%20Alex\).](https://www.alexu.edu.eg/index.php/2016-04-02-06-46-52/university-museums/science-ar#:~:text=%D9%88%D8%AA%D9%82%D8%B9%20%D8%A7%D9%84%D8%AD%D8%AF%D9%8A%D9%82%D8%A9%20%D8%A7%D9%84%D8%B1%D8%A6%D9%8A%D8%B3%D9%8A%D8%A9%20%D8%AC%D9%86%D9%88%D8%A8%D9%8A%20%D9%85%D8%A8%D9%86%D9%89,%D8%AF%D9%88%D9%84%D9%8A%D8%A7%D9%8B%20%D8%AA%D8%AD%D8%AA%20%D8%A7%D8%B3%D9%85%20(%20Alex).)

Description:

The Herbarium of the Faculty of Science (ALEX)

- The herbarium is listed in the Index Herbariorum (NYBG Steere Herbarium), contains a large collection of preserved wild plants, totaling up to 6,000 specimens, located in the Faculty of Science building in Shatby. These plants represent most of the Egyptian flowering plants and are accurately identified using flora books and cross-referenced with the Cairo University Herbarium. Specimens have been collected from the northern coast, North and South Sinai, southern Egypt up to the Sudanese border, and other regions.
- The herbarium serves graduate students and various research projects at Alexandria University and other universities. It is also a source of pollen samples for various studies. Students from various schools in Alexandria, as well as public and private universities across Egypt, are welcomed at the Herbarium of the Faculty of Science. These visits aim to introduce them to the herbarium's role, which is essential for preserving plant specimens and aiding in research, education, and conservation efforts. This effort is part of the university's plan to serve the community and achieve the 17th goal of sustainable development (partnership for the goals).
- Currently, the herbarium's plant species are being digitally photographed to facilitate the access of researchers and students without disturbing the type specimens or "reference samples" unless necessary.

[https://www.alexu.edu.eg/index.php/2016-04-02-06-46-52/university-museums/science-ar#:~:text=%D9%88%D8%AA%D9%82%D8%B9%20%D8%A7%D9%84%D8%AD%D8%AF%D9%8A%D9%82%D8%A9%20%D8%A7%D9%84%D8%B1%D8%A6%D9%8A%D8%B3%D9%8A%D8%A9%20%D8%AC%D9%86%D9%88%D8%A8%D9%8A%20%D9%85%D8%A8%D9%86%D9%89,%D8%AF%D9%88%D9%84%D9%8A%D8%A7%D9%8B%20%D8%AA%D8%AD%D8%AA%20%D8%A7%D8%B3%D9%85%20\(%20Alex\).](https://www.alexu.edu.eg/index.php/2016-04-02-06-46-52/university-museums/science-ar#:~:text=%D9%88%D8%AA%D9%82%D8%B9%20%D8%A7%D9%84%D8%AD%D8%AF%D9%8A%D9%82%D8%A9%20%D8%A7%D9%84%D8%B1%D8%A6%D9%8A%D8%B3%D9%8A%D8%A9%20%D8%AC%D9%86%D9%88%D8%A8%D9%8A%20%D9%85%D8%A8%D9%86%D9%89,%D8%AF%D9%88%D9%84%D9%8A%D8%A7%D9%8B%20%D8%AA%D8%AD%D8%AA%20%D8%A7%D8%B3%D9%85%20(%20Alex).)

Planning, implementation, monitoring and/or evaluation of university governance through the utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Enhanced Learning Resources, Interactive Learning, Collaboration and Communication, Virtual Classrooms and Online Learning, Assessment and Evaluation, Research projects, Research and international collaborations, Staff members' Development, Administrative Efficiency	Research management software	Research focus documents, funding proposals	Nov 2023 - Dec 2023	Measurement and Evaluation Unit at Alexandria University, Faculty and Leadership Development Center (FLDC) at Alexandria University, Alexandria University Project Management Unit
Implementation	Apply Learning Resources, Fund and support research projects on sustainability	E-books, digital libraries, online content, virtual labs, and Multimedia content, Smartboards and interactive whiteboards, E-learning platforms, Enhancing research and fostering international collaborations	Project reports	Jan 2024- till now	Measurement and Evaluation Unit at Alexandria University, Faculty and Leadership Development Center (FLDC) at Alexandria University, Alexandria University Project Management Unit

Monitoring	Students grads, Track research progress and publication output	Automated assessments of grads students through the measurement and evaluation centre, Track the progress of sustainability research and the number of scholarly publications produced	Publication databases, progress reports	Ongoing	Measurement and Evaluation Unit at Alexandria University, Faculty and Leadership Development Center (FLDC) at Alexandria University, Alexandria University Project Management Unit
Evaluation	Evaluate the impact and quality of publications on sustainability, citation reports	Impact and quality of the publications on sustainability, citation analysis tools	Impact assessment, citation metrics	Annually	Measurement and Evaluation Unit at Alexandria University, Distinguished Scientific Publishing Office

Description:

- **Planning:** Enhanced Learning Resources, Interactive Learning, Collaboration and Communication, Virtual Classrooms and Online Learning, Assessment and Evaluation, Research projects, Research and international collaborations, Staff members' Development, Administrative Efficiency.
- **Implementation:**
 - Enhanced Learning Resources:**
 - **E-books, digital libraries, online content, virtual labs, and Multimedia content** (videos, and 3D models) supports better understanding.

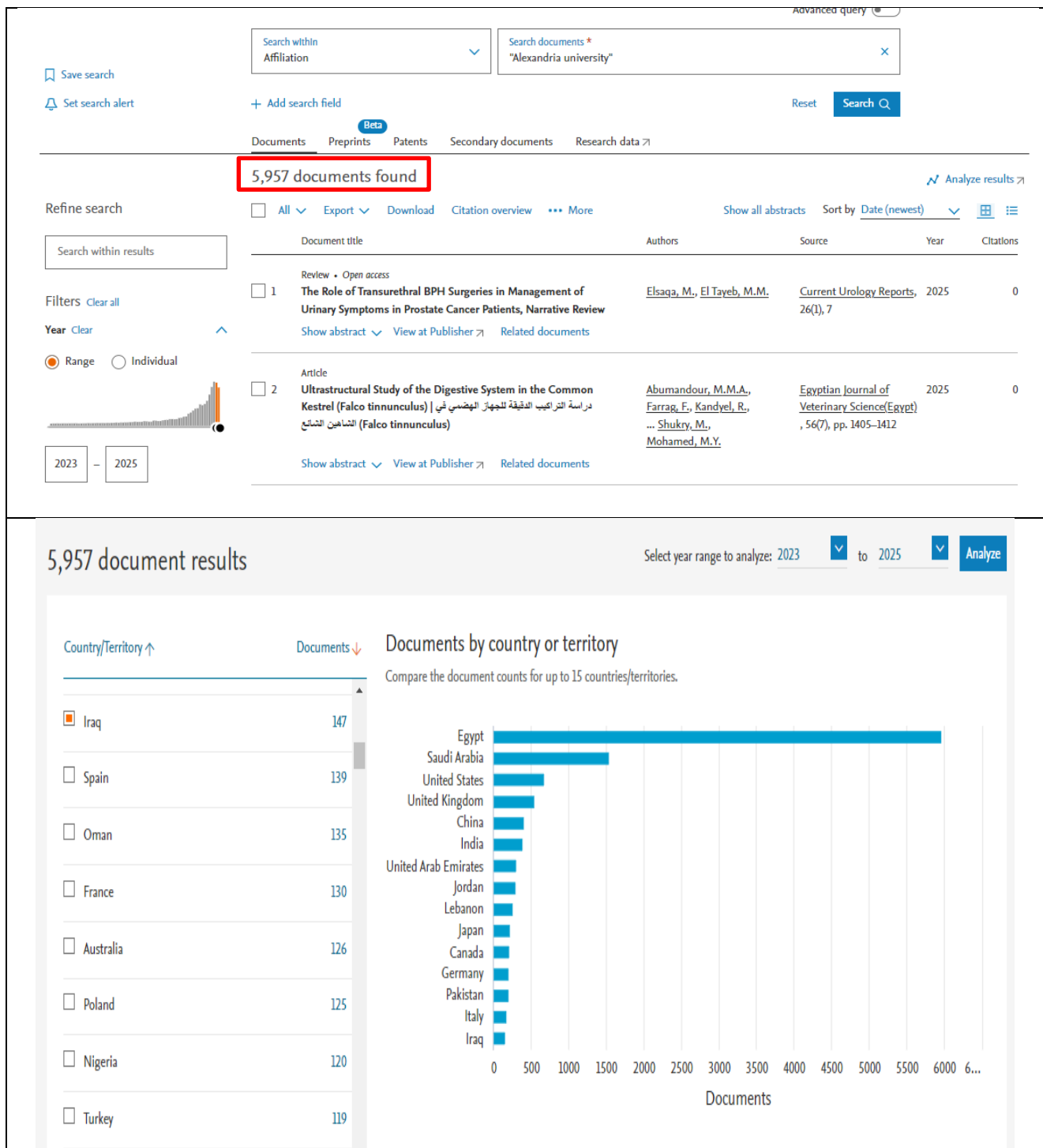
Virtual Labs

- Virtual Labs were established in Alexandria University to give the opportunity for instructors and their students to practice various kinds of labs remotely without being physically present in the lab. Virtual Labs are 3D virtual labs for students to practice physics, biology and chemistry lab Experiments (attached example of the system used).
- B. Interactive Learning:**
 - **Smartboards and interactive whiteboards** allow for engaging lessons, combining visuals, text, and interactive elements.
- C. Collaboration and Communication:**
 - Tools like **Thingi, Google Classroom, Microsoft Teams, and Zoom** facilitate online collaboration, discussions, and group projects.
- D. Virtual Classrooms and Online Learning:**
 - **E-learning platforms** provide flexibility in learning. Students can attend classes remotely, access materials at their convenience, and interact with instructors via forums and chatrooms.
- E. Assessment and Evaluation:**

- **Automated assessments** help educators quickly grade assignments and provide feedback. ICT tools analyze student performance and offer insights into learning trends.
- Online exams allow for real-time assessment, and data analytics through e-marking can predict student outcomes and areas that need improvement.

F. Research and international collaborations

- Enhancing research and fostering international collaborations with authors from around the world to improving research efforts and building international partnerships with authors globally by using online platforms like Google Meet, Teams, and Zoom for communication and collaboration.



G. Staff members' Development:

- Continuous **professional development** opportunities are performed through webinars, online courses, and teaching communities for Alexandria university affiliates (faculty staff members – assistant staff members – postgraduate student – the administrative) to refine their teaching methods and improve learning outcomes.

H. Administrative Efficiency:

- Courses study marine environments and focusing on the sustainability of marine ecosystems, rely on the use of the research vessel, which is equipped with a GPS device, and located at the Faculty of Science in the Anfoushi area. Students and researchers use the vessel to conduct field trips for collecting water and sediment samples, and carrying out the necessary studies.
- ICT systems for the student enrollment and attendance tracking.

- **Monitoring:**

Evaluation of the students through the measurement and evaluation centre, Track the progress of sustainability research and the number of scholarly publications produced.

A. Distinguished Scientific Publishing Office

- In the frame work of university support to research activity and to encourage researcher to publish scientific researches in international indexed magazines that shall contribute in raising the scientific research level in the university and improving the university international rank, scientific research support, and publishing bonus.

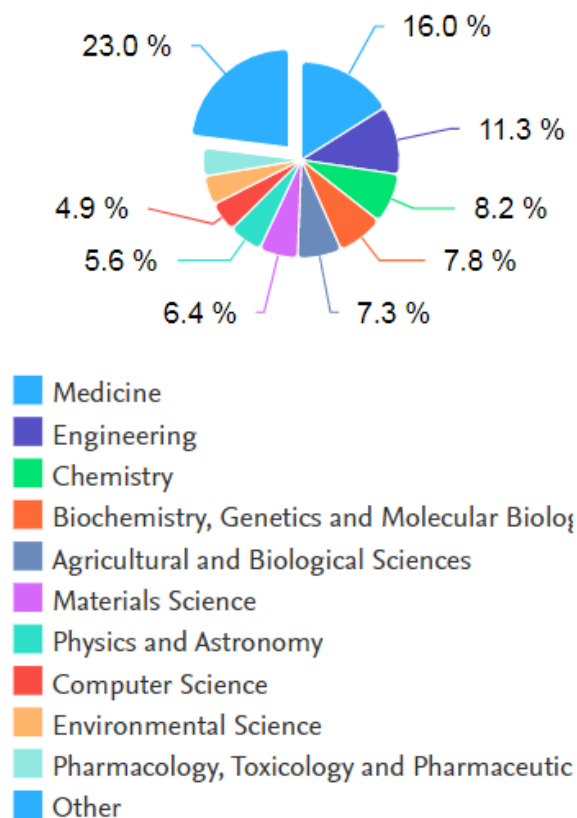
B Alexandria University Scientific Journals and Periodicals

- Alexandria University publishes a number of scientific journals and periodicals aimed at disseminating the research of faculty members both within and outside the college. These publications also include summaries of master's and doctoral theses, address topics of common interest, and respond to inquiries related to various fields of study. The university's publications are edited by a team of experts and specialists in this regard. The total number of journals published by the faculties of Alexandria University is 39, issued in both Arabic and English.

C. Alexandria University Project Management Unit

- The unit is responsible for contributing to the development strategy of the university, assisting the faculties in creating their own development strategies, and overseeing the management and implementation of the development plans, projects, programs, and activities adopted and approved by the university administration to achieve its developmental goals.
<http://www.pmu.alexu.edu.eg/index.php/ar/>
- **Evaluation:** Evaluate the impact and quality of the publications on sustainability. Use citation analysis tools and peer review systems to assess the reach and impact of the research.

Subject trends



SDG contributions

No poverty

Goal 1

[View 117 documents](#)

Zero hunger

Goal 2

[View 1,280 documents](#)

Good health and well-being

Goal 3

[View 14,978 documents](#)

Quality education

Goal 4

[View 398 documents](#)

Gender equality

Goal 5

[View 302 documents](#)

Clean water and sanitation

Goal 6

[View 3,096 documents](#)

Affordable and clean energy

Goal 7

[View 3,249 documents](#)

Decent work and economic growth

Goal 8

[View 882 documents](#)

Industry, innovation and infrastructure

Goal 9

[View 1,444 documents](#)

Reduced inequalities

Goal 10

[View 273 documents](#)

Sustainable cities and communities

Goal 11

[View 1,278 documents](#)

Responsible consumption and production

Goal 12

[View 1,208 documents](#)

Climate action

Goal 13

[View 997 documents](#)

Life below water

Goal 14

[View 2,094 documents](#)

Life on land

Goal 15

[View 708 documents](#)

Peace, justice and strong institutions

Goal 16

[View 322 documents](#)

Partnership for the goals

Goal 17

[View 6,178 documents](#)

Citation overview

For 6,380 documents

6,380 Documents 58,301 Citations 70 h-index

Date range: 2021 to 2024

☐ Exclude self citations
 ☐ Exclude book citations
 ☒ Hide documents with 0 citations
 ⓘ Export

