

## Template for Evidence(s) UI GreenMetric Questionnaire

University : Alexandria University  
Country : Egypt  
Web Address : [www.alexu.edu.eg](http://www.alexu.edu.eg)

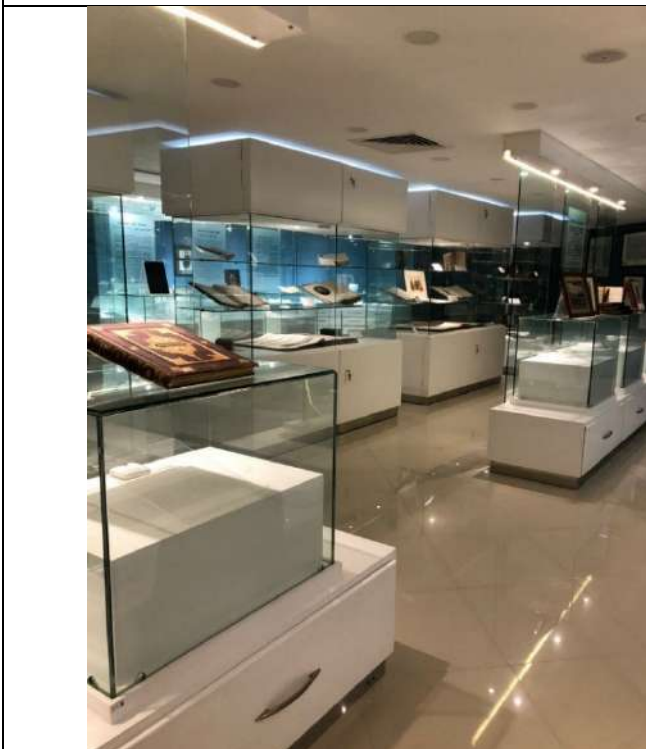
### [6] Education & Research

#### [6.17] Number of sustainability-related startups

##### Information



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)



## 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](http://www.aimincubator.com)

**Deadline**

30 - 10 - 2019

**Funded By**



**Managed By**



**Artificial Intelligence Minds Incubator (Faculty of Engineering, Alexandria University)**



**Artificial Intelligence Minds Incubator (Faculty of Engineering, Alexandria University)**



**Alexandria University Technology Incubator for Smart Systems (AUTISS) Incubator (Faculty of Engineering, Alexandria University)**



منتجات تحالف الصناعات الغذائية الزراعية

**APPLICATIONS OF INULIN**

شركاء جدد

**Agro-Food Industries Alliance Products**



شركاء جدد

Politecnico di Milano, Italy

Birmingham City University

United Nations Industrial Development Organization (UNIDO)

World Food Programme (WFP)

jamk.fi

tiec

E-JUST

Texas International Education Consortium (TIEC), USA

Egypt-Japan University of Science and Technology (E-JUST)

University Mediterranean of Reggio Calabria, Italy

Egyptian Federation of Investors Associations EFIA

Businesswomen of Egypt 21\*BWE21

**New partners**

**Agro-Food Industries Alliance Project**

**Startup name:** "National Committee Sustainable Development"

**Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED)**

**Description:** Proposed Mission: Striving to maximize the utilization of the outputs of education and scientific research with the sustainable development goals "Egypt Vision 2030", linking them with the United Nations goals for sustainable development together with developing a framework for the educational system governance aiming at achieving the well-being of society. It includes green, sustainable development and innovative incubators.





Samdha Company, founded by Musaad Darwish, a student in the Department of Civil and Environmental Engineering at the Faculty of Engineering



Samdha Company: The plants in the 2 photos on the left are planted in presence of natural organic fertilizers



Accreditation Certificate of Central Laboratory – Faculty of Science (Alexandria University)

**كلية الفنون الجميلة جامعة الاسكندرية**  
لجميع طلاب الجامعات والمجتمع المدني للعام الجامعي ٢٠٢٢/٢٠٢٣م

<b>تاريخ الأبحاث</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>تجهيزات مهارات الفنون بتطبيقات</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>استحداث تجويز الشارات العلمية لأبحاث وأعمال فنية</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>الزجاج المعشق</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>فن الكارتون</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>فن الطباعة</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦
<b>فن الخط</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>التصوير الفوتوغرافي</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>التشطيبات المعمارية</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>التصميم الحر والتصميم الداخلي</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>تصميم الحكي والأكسسوارات</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>الرسم على الجدران</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦
<b>برنامج الفوتوغراف</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>التصوير بالجرافيك</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>تصميم المجلات والتدريج الزهور</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>تصوير الزهور والأشياء الزينة</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>تصميم الأزياء</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦	<b>الزهور للتصوير والخطاطة</b> عدد الفصول: ١ عدد المحاضرات: ١ عدد الممارسات: ١ عدد الواجبات: ١ نسبة النجاح: ١٠٠% قيمة الفئتين: ٦- ٦

مدير الكلية: أ.د / دينا منجور  
 مدير التنفيذي: أ.د / إيمان رمزي  
 لواتساب: 01026999313  
 من الصفحة: 9 صفحات (أي أمثلة)  
 facebook

**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



**sf** Innovators  
Support  
Fund  
صندوق رعاية المبتكرين والنوابغ

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 13<sup>th</sup> 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, Damanshour 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, 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 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](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](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.