



Pharos University in Alexandria



The Sustainable Development Goals Report 2018 - 2019

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Pharos University

Sustainability reporting on SDGs 2018 - 2019

I. Introduction

At the 70th Session of the United Nations General Assembly in September 2015, member states adopted a new global development agenda, *Transforming our world: the 2030 Agenda for Sustainable Development*. There are 17 development goals for sustainable development set out by the UN. At its heart are 17 Sustainable Development Goal. These goals were launched as a global agenda for addressing the multiplicity of social and environmental challenges that face communities.

All Sustainable development goals (SDGs) are increasingly integrated at all levels in universities, including its overall strategy. Egypt has responded to the 17 SDGs by setting national plan: Egypt 2030 (<http://sdsegypt2030.com/?lang=en>). The third Pillar of this plan is on: Knowledge, Innovation and Scientific Research. which includes the following group of elements and components:

- General environment: Represents the role of the State in the creation of an environment that encourages innovation, including motivators and constraints, the economic system, policies, legislation, and principles of governance.
- Infrastructure: Play a fundamental role in supporting the cognitive and creative production by setting standards and laying regulatory foundations of innovation and scientific research, supporting business and innovation, protecting copyright, ensuring availability of information, financing and encouraging investment.
- Education and scientific research: Includes all research organizations and institutions, technical education and vocational training institutions, higher education and scientific research institutions, and research centers.
- Industry: Represents all industrial sectors including large, medium, and small scale companies' activities relevant to research and development.
- Intermediaries: Includes the institutions that link between industrial innovation, and research and development on the one hand, with academic and research institutions on the other hand.
- Development needs: Represents the required demand for innovation, knowledge, and scientific research to fulfill economic and social needs.

II. Involvement of Pharos University strategic Plan with UN-SDGs, Egypt-2030 and the national strategy of the State Ministry of Higher Education and Research

Pharos University has a direct involvement and input into the UN-SDGs, Egypt-2030 and the national strategy of the state ministry of Higher education and research (Table 1). Development of the strategic goals of Pharos University meet the UN-SDGs , and contribute to identify the national problems and challenges and enable adaptive management through its internal processes (rules and regulations), and

external relationships (internationalization and partnerships
<http://www.pua.edu.eg/international/international-partners/>).

Table 1 The compliance of Pharos university Goals with the UN-SDGs

Pharos University goal	Relation to UN-SDG
1. Raising the efficiency of the institutional capacity to improve competitiveness	GOAL 8: Decent Work and Economic Growth
2. Enhancing and supporting the educational system	GOAL 4: Quality Education GOAL 5: Gender Equality
3. Expanding the support to internationalization	Goal 17 Partnership to achieve the goals
4. Developing the scientific research system and post graduate studies to meet the national strategy	GOAL 4: Quality Education GOAL 5: Gender Equality
5. Expanding the activities of community services and environmental development	GOAL 11: Sustainable Cities and Communities
6. Raising the competitive skills of students	GOAL 4: Quality Education GOAL 5: Gender Equality

The strategic goals of Pharos University (<http://www.pua.edu.eg/about-pua/vision-and-mission/>) were reviewed and updated to meet the national strategies of sustainable development - Egypt 2030, Pillar 3: objectives for the knowledge, innovation, and scientific research to 2030 (<http://sdsegypt2030.com/wp-content/uploads/2016/10/4.-Knowledge-Innovation-Scientific-Research-Pillar2.pdf>).

Table 2 . below indicate the direct involvement of pharos university in with the Sustainable development Strategy: Egypt 2030 (per objective) and the corresponding goals of Pharos University .

Table 2. Involvement of Pharos University with Egypt 2030 strategy

Objective for Knowledge, Innovation, and Scientific Research to 2030 (National SDG Plan)	Definition as indicated in the Sustainable development Strategy: Egypt 2030	Corresponding Pharos University Goal
Creation of a stimulating environment for the localization and production of knowledge	Maximizing knowledge production by enhancing the legislative, investment, and financing environments and providing the fundamental infrastructure	Goal 2. Enhancing and supporting the educational system Goal 1. Raising the efficiency of the institutional capacity to improve competitiveness
Activation and development of an integrated national innovation system	Enhancing the efficiency of innovation production by encouraging creative production, increasing the links between innovation and developmental needs, the development of basic education and higher education as well as research and development	Goal 4. Developing the scientific research system and post graduate studies to meet the national strategy
		Goal 6. Raising the competitive skills of students.
Linking the knowledge applications and the innovation outputs with	Determining the sectorial priorities and challenges, how to address them by working on increasing the	Goal 4 Developing the scientific research system and post graduate studies to meet the national

priorities	knowledge product for the priority sectors and by raising the local content	strategy. Goal 5. Expanding the activities of community services and environmental development
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The Ministry higher education and research has formulated its strategy to cope with EGYPT 2030 Plan. It is available in Arabic in : http://portal.mohe.gov.eg/ar-eg/Documents/Strategy_mohe.pdf

This strategy is basically summarized in improving 5 main aspects. These are (Translated by author)

- Education
- Scientific research and Innovation
- Capacity building
- Community Services
- Health

Under the aspect of Scientific research and Innovation the following items are included (Translated by author):

1. Accessibility: education accessibility for all
2. Quality: Improvement of quality education system to be consistent and coping with international quality systems
3. Competitiveness: Improvement of outcomes of universities in a competitive manner (ranking)
4. Internationalization: Formulation of MOUs with international universities with the purpose of launching branching of these universities in Egypt, And establishment of joint research and educational programs.
5. Community services: Improvement of community services in the field of health (university hospitals), Medical cohorts, cooperation with NGOs, and awareness activities to alleviate illiteracy and combat corruption

The goals of Pharos university are compliant with all the above items as one of the private universities that is recognized and accredited by the Ministry of higher education and research in Egypt. Table 3 shows the alignment of Pharos University Goals with the goals of the Higher ministry of Education .

Table 3 . Alignment of Pharos University Goals with the goals of the Ministry of Higher Education

Goals	Pharos University Goals	Goals of the Ministry of Higher Education
Goals 1.	Raising the efficiency of the institutional capacity to improve competitiveness.	Improvement of outcomes of universities in a competitive manner (ranking).
Goals 2.	Enhancing and supporting the educational system	Improvement of quality education system to be consistent and coping with international quality systems
Goal 3.	Expanding the support to internationalization	Internationalization: Formulation of MOUs with international universities with the purpose of launching branching of these universities in Egypt, And establishment of joint research and educational programs.
Goal 4.	Developing the scientific research system and post graduate studies to	Improvement of outcomes of universities in a competitive manner (ranking)

	meet the national strategy	
Goal 5.	Expanding the activities of community services and environmental development	Improvement of community services in the field of health (university hospitals), Medical cohorts, cooperation with NGOs, and awareness activities to alleviate illiteracy and combat corruption
Goal 6.	Raising the competitive skills of students	education accessibility for all

Pharos University in Alexandria (PUA) is the only private university in Alexandria. Apart from the international research activities, PUA promotes youth development and foresees the empowerment of young generations to be entrepreneurs in a compressive manner. PUA also is concerned more with local issues and collaborate with local NGOs and Schools to contribute to achieving SDGs. There have been several activities regionally and globally that adds to the SDGs that is either lightly covered or not covered in the previous report of 2017.

This report summaries the activities carried out by Pharos university in 2018-19 to achieve the UN-SDGs. The activities take different forms; conferences for discussions, dialogues and exchange experience on SDG topics, community services by staff members form different departments, students community Projects, identification of problems and research, and internal reports from departments. Each SDG is dealt with separately in the following sections.

III. Contribution of Pharos University to Achieving SDGs of Relevancy

SDG 1: No Poverty

This Goal calls for an end to poverty in all its manifestations by 2030. It also aims to ensure social protection for the poor and vulnerable, increase access to basic services and support people harmed by other economic, social and environmental disasters.

1.1. Scholarships to Support Students in Need

Inline with this goal, Pharos University Supports some students in- need with full scholarships, and others with waiving students fees up to 50% depending on social assessments and <https://www.pua.edu.eg/pua-admission/scholarships-and-tuition-waivers/> and <https://www.pua.edu.eg/pua-admission/tuition-fees/>.

In the academic year 2018-2019, there were 97 scholarships and tuition fees waiving to both males and female students in almost all faculties (Table 4). According to private and confidential social assessments carried out for each student, the amount of waiving of fees is determined. It ranged between 10% to 50%.

Table 4. Tuition Fees Waiving to both Males and Female students in almost all Faculties of Pharos University.

Faculty	Number of Students			Discount Rate
	Males	Females	Total	
Pharmacy and Drug Manufacturing	16	15	31	10% - 15% - 20% - 50%
Dentistry	16	5	21	10% - 15% - 20%
Engineering	4	3	7	10% - 20%
Financial and Administrative Sciences	2	1	3	15% - 20%
Languages and Translation	0	3	3	20%
Legal Studies	0	0	0	0
Tourism and Hotel Management	2	3	5	15% - 20%
Physical Therapy	3	8	11	10% - 15% - 20%
Mass Communications	1	0	1	20%
Arts and Design	1	9	10	15% - 20%
Health Sciences Technology	0	5	5	10% - 15%
Total	45	52	97	

1.2. Celebrating Orphan Day: working with civil local communities and NGOs.

Within the pioneering role of *Pharos University in community service*; Pharos University organized its annual orphans' day ceremony on Friday the 12 of April 2018 at university playgrounds. This was traditional ceremony that the university put it in its priority and tried to increase the proportion of the civil committees that were interested in orphans care. Four hundred children participated in this ceremony and represented eight civil committees. Another visit was organized *the Faculty of Pharmacy* to the Orphan House "Dar El Hedaya fro social Care" On 12 December 2018

<https://www.pua.edu.eg/pharos-university-celebrated-the-orphans-day/>.

All faculties of the university contributed to this event. *The faculty of Dentistry* provided the children some games and activities to raise the awareness and also distributed some gifts relating to teeth protection. *The Faculty of Engineering* participated in the ceremony by offering some games. The academic staff members of *the Faculty of Arts and Design* offered children some leisure activities like face painting and distributed handmade gifts. *The Faculties of Languages and Translation, Tourism and Hotels Management, and Financial and Administrative Sciences* distribute gifts among the children.

The Faculty of Allied Medical Sciences launched the awareness campaign of healthy nutrition, in addition to distributing the gifts. The day included theatrical and musical segments, the magician segment and the Nubian segment. At the end clothes and ready-made food were distributed and according to the annual tradition, they captured the university picture.

The following day, Friday, April 13th 2018, the *Student Activities Department* held the annual celebration of the orphans' day at the university playgrounds. At this day, more than 300 children were hosted by the university, who are affiliated to the following foundations:

- Naba'a Al Hayat Foundation
- Mojeeb Al Salayen Foundation
- Al Staqrar Foundation
- Kafalat Al Yateem Foundation at Fata neighborhood
- Al Qalaa for Community Development.

The celebration laid on many forms of entertainment for the children; it began with a parade of the children hosted by Pharos University, followed magic and puppet shows. An entertainment performance was then given by a Nubian band. By the end of the celebration, gifts were distributed among the children after they got face-painted and had lunch

<https://www.pua.edu.eg/pua-celebrated-orphans-day/>

1.3. Annual Charity Day

The Faculty of Pharmacy held its **9th Charity Market** under the auspices of the Student Activities Department, on Tuesday 24/4/2018 at the entrance foyer of the faculty. The activity included distributing goods in low prices for the most needed community dwellers.

<https://www.pua.edu.eg/the-annual-charity-market-3/>

SDG3: Good Health

Major progress has been made in improving the health of millions of people, increasing life expectancy, reducing maternal and child mortality and fighting against leading communicable diseases. Concerted efforts are required to achieve universal health coverage and sustainable financing for health, to address the growing burden of non-communicable diseases, including mental health, and to tackle antimicrobial resistance and determinants of health such as air pollution and inadequate water and sanitation. Pharos University has records in this regard including aid convoys, different health initiatives, conferences and seminars, activities of Pharos university clinics, local national and international cooperation and international research publications. Below is a summary of Pharos University achievements in the health sector.

3.1. Aid Convoys: Faculties of Pharos University Race to Organize the Aid Convoys – working with NGOs and Schools

During the month of Ramadan, the student activities administration organized the first three convoys, the Faculty of Tourism and Hotel Management organized the fourth aid convoy and the Faculty of Financial and Administrative Sciences organized the fifth convoy, the Faculty of Legal Studies and International Relations participated in the sixth and seventh aid convoys. The fourth and fifth convoy was launched on the 13th of May to **Abd Elkader Association** to distribute food products to the neediest families. Then, the convoy headed to **Borg El Arab hospital** where they visited the patients of the Department of Oncology and distribute gifts among the children.

The sixth convoy was launched on Wednesday the 15th of May in association with **Tarik Charity Association** in Mustafa Kamel, and Eleen Elgaria association in Elsyouf. The seventh aid convoy launched on Thursday the 16th of May in association with **Abu Masoud suburb** in Amria. The two aid convoys distributed food products to the neediest families in this area.

<https://www.pua.edu.eg/pharos-university-launched-the-fourth-aid-convoy/>

<https://www.pua.edu.eg/pharos-university-aid-convoys-reached-the-5th-in-number/>

<https://www.pua.edu.eg/the-faculties-of-pharos-university-race-to-organize-the-aid-convoys/>

Within the framework of the community service, Pharos University, a medical aid convoy was sent off to the **Martyr Waleed Sobhy School** on Tuesday 27/11/2018. The convoy was sent in coordination with the Education Directorate in Alexandria. The PUA delegation was comprised of staff members of some PUA faculties including the faculty of Dentistry, the faculty of Physical Therapy and the faculty of

Allied Medical Sciences. The staff of the faculty of dentistry offered 300 primary students free medical examinations and distributed toothbrushes and toothpastes among them. Meanwhile, the Physical Therapy delegates gave the students some useful advices on how to improve their postures and to properly carry their school backpacks. The school students also watched a video, made by the staff of the faculty of Allied Medical Sciences on the importance of healthy eating and the ideal weight and height for their age.

<https://www.pua.edu.eg/pharos-university-sent-a-medical-aid-convoy-to-the-martyr-waleed-sobhy-school/>

3.2. The healthy Campus Initiative Campaign

The Nutrition Department at the *Faculty of Allied Medical Sciences* launched “Healthy Campus Initiative” on Tuesday, 9 April, 2019. This initiative aimed at highlighting the profound impact of nutritional knowledge in eradicating health illiteracy. According to the findings of the researches conducted last year which showed low health and nutrition literacy, the main objective of this study is to raise the students’ nutritional and health awareness through informing the students the basic nutrients, their sources and functions as well as promoting conscious eating habits by using models of dietary guidance systems and healthy eating; traffic light system and healthy eating pyramid.

The Faculty of Pharmacy held an awareness campaign on Blood pressure and heart diseases, and Osteoporosis among students of Pharos University on 5/3/2019, 22/11/2019 and 30/11/2019 respectively. Blood pressure and Blood sugar levels were measured during the campaign and used to serve the awareness activity.

<https://www.pua.edu.eg/the-faculty-of-allied-medical-sciences-launched-a-healthy-campus-initiative/>

3.3. Seminars, Conferences and Workshops

3.3.1. *The Faculty of Pharmacy and Drug Manufacturing* held a seminar on clinical pharmacy in 57357 Hospital on Tuesday 9/10/2018. After the introductory session, the Dean of the Faculty of Pharmacy and Drug Manufacturing gave a word that stressed on the key role of clinical pharmacy in different pharmaceutical services and the growing need for it nowadays. This was followed by the word of Dr. Emad Ezzat, in which he highlighted the vital role of the pharmacist in the intensive care unit as well as the training courses and programmes provided for the pharmacists by the hospital. Dr. Ibrahim Abdou then took the floor and introduced the attendees to the recent advancements in the field of Clinical Pharmacy in 57357 Hospital, the important role of clinical pharmacist especially in the treatment of cancer and the latest great advances in the treatment of hematological diseases. Both speakers by the end of the seminar stressed the need for not limiting the role of pharmacist to routine work of little benefit to the society.

<https://www.pua.edu.eg/clinical-pharmacy-in-57357-hospital/>

3.3.2. The first international conference of the *Faculty of Physical Therapy* organized by Delta University for Science and Technology witnessed the participation PUA physiotherapy academic staff members and students. A delegation from the faculty of Physical Therapy attended the on 19-20 October 2019.

<https://www.pua.edu.eg/the-1th-international-conference-of-the-faculty-of-physical-therapy-at-delta-university-for-science-and-technology/>

3.3.3. A delegation from the *Faculty of Applied Health Sciences Technology* participated in the first symposium of Biomedical Sciences and Tumor Markers held at the faculty of Medicine, Alexandria University on Friday, 11 October 2019. PUA delegation was comprised of a number of faculty members, teaching assistants, students and graduates who contributed posters on the latest scientific researches which impressed the attendees with its scientific content.

<https://www.pua.edu.eg/pharos-university-participated-in-the-1st-symposium-of-biomedical-sciences-and-tumor-markers-at-alexandria-university/>

3.3.4. *The faculty of Physical Therapy* held a Conference in collaboration with three pharmaceutical companies from the private sector; Eva Pharma, Innova Pharma and Hygint Pharmaceutical company Ltd. The workshop title "Recent Trends in Non-invasive Reshaping Modalities in Body Contouring" – July 2019. The conference was open to public and provided instruments to measure the body index (total mass, fat and muscles), basal metabolic rate, and the blood Hemoglobin and sugar levels. The conference also demonstrated the use of Radio Frequency for stretch tightening, and regeneration of skin and facial derma.



3.3.5. The faculty of Pharmacy held two workshops, the first one was in 2/10/2018 on "Over The Counter (OTC)" which deals with drug medicine sold directly with no prescription and consequences. This workshop was in collaboration with El Gewaily Academy. The second workshop was in 9/10 2018 on "Criminal Responsibility as a Result of Mistakes in Pharmaceutical Aspects.

3.3.6. The students Committee of the Faculty of Pharmacy conducted a training session in cooperation with Andalusia Hospital on Emergency Medicine. The training included important emergency issues e.g. first aid, burns, unconsciousness, and ventilation.

3.4. Students' community Projects in the Field of Health

3.4.1. *The faculty Pharmacy and Pharmaceutical Manufacturing* Project "Assessment of community awareness of the rotational use of analgesics"

The project aims at assessing the patient awareness about the hazards of irrational use of NSIADs and narcotic analgesics and to evaluate patient counseling provided by Alexandrian pharmacists, cover the demographic data of the sample of patients participating in the project, and make a survey for analgesic drugs present in the Egyptian retail pharmacies, social habits and medical history. The project was designed to address the following points concerning analgesic drugs: (a) The incidence and trends of clinical use of different analgesics in the Egyptian drug market, (b) Reported ADR based on patient' and pharmacist' questionnaires. Based on the results of obtained data, students designed and distributed informative brochures among patients to raise the community awareness towards the proper use of analgesics and their possible side effects. In addition, they designed and distributed brochures for pharmacists to remind them by the hazards of irrational use of analgesics and the necessity to inform their patients about that.

3.4.2. *The faculty of Allied Medical Sciences* Project "impact of occupational exposure to induces of met hemoglobin on Red Blood cells".

The project aim is to determine the impact of occupational exposure to certain inducers of methemoglobin on red blood cells normal hemoglobin. The project team concluded that occupational hazards in an emergency department will remain an important topic that needs to be faced in the future, causes of Met HB can be congenital or acquired (from exposure to chemicals), and awareness of the condition and the importance of prevention will avoid cases being missed & reduce morbidity and

mortality. The project team addressing two industrial companies recommended the Identification and control of hazards are the proper approach to preventing occupational hazards, Investigation of the workplace factors that may contribute to over exposure to the causative chemical, Total isolation of the entire industrial operating process and a general cleanliness of the industrial environment, and Periodic educational programs for workers about personal protection & health education, sanitary surveillance, and environmental control of toxic chemicals in the neighborhood .

The faculty also is involved in 4 community service projects; (1) Support of Information Technology and and knowledge to serve issues of Reproductive Health, family planning and Nutrition in Eastern Alexandria . Study Area: slum areas. This project is carried out in cooperation with the Directorate of Health in Alexandria Ministry of Health and the Institute of Cultural Heritage. (2) Live it in the Correct Way initiative. Its goal is to spread the awareness among youth and students about obesity,. (3) awareness project on public health in Abou Humous Province. The objective of this project is to enhance the nutrition and general health conditions of women in Rural areas of Abou Humous village – Beheria Governorate- Ministry of health. The project targets women of moderate education and women of community cadr in Beheria Governorate among both reproductive age and girls of school age group. This project is carried out in cooperation with Social Solidarity Directorate Ministry of Social Affairs and the Education Directorate - Ministry of Education. And (4) Together for a Better Life. This project aims at supporting the nutritional and health conditions in 30 school students. The project is carried out in cooperation with the Education Directorate in Alexandria - Ministry of Education

3.4.3. *The faculty of Dentistry* Project “Perceived dental health seeking behavior among a group of adult population in Alexandria-Egypt in Beheria Governorate”

The aim of the project is to Identify causes of patients delay in seeking dental treatment, and Increase awareness among adult patients in Alexandria city. The project recommended Launch an awareness campaign on the importance of early seeking dental treatment, Put into place the most possible solutions to ensure the expansion population can access care, Communicate with the various institutions that provide oral and dental services such as the Ministry of Health and Health Insurance to join efforts to improve the preventive and curative service and health education to reach the highest level of health service, and to start the awareness of children, to avoid access to that deteriorating state of oral health. More projects for community service projects in the *Faculty of dentistry* are listed below:

1. Evaluation of patient perception of pain after gingivectomy.
2. Oral health assessment of pediatric cancer.
3. Evaluating the role of dental behavior on oral health inequalities in Alexandria, Egypt.
4. Dental Knowledge among Dental technicians in Alexandria.
5. Are nursing Faculty Graduates Qualified as dental clinics supervisions.
6. Effect of Natural and chemical disinfection on quality of dental unit water Lines (DUWLs).
7. Oral health knowledge, attitude and behavior among industrial workers in Alexandria.
8. Pre & post HE assessment of KAP towards infection control and prevention among Health care workers in Alexandria, Egypt 2018.
9. HIV/AIDS knowledge and attitude among university students Alexandria, Egypt 2018-2019.
10. Antibody levels and protection after HB vaccine results of a follow-up study and response to a booster dose.
11. Patients' satisfaction with dental care in different dental health care facilities in Alexandria.
12. Epidemiology Of delay in seeking dental care in Alexandria 2018.
13. Epidemiology of oral health problems among pregnant females, 3rd trimester.
14. KA towards periodontal health among adults in Alexandria.
15. Assessment of knowledge, skills and attitude of dentists towards special needs patients.

3.4.4. *The faculty of Physical Therapy* Project: “Effect of desk works on the head and neck”.

The idea was formed to introduce a questionnaire that collect the essential data of a sample of people who their jobs depend on desk works, and to record the degrees of pain, referred pain, neck stiffness and other signs and symptoms that are manifested at that large category in the community.

3.4.5. *The Faculty of Tourism and Hotel Management* Project “Towards healthy food sustainability at Pharos University campus in Alexandria)”

The project aimed at reaching the actual percentage of good food safety practices during food handling operations on campus outlets, Identify the strengths and weaknesses of employees related to their actual practice of food handling, Achieve sustainable healthy conditions for food preparation and production at food and beverage outlets and Develop a guide video to demonstrate the proper food handling. The project team used the literature review of food safety, which revealed that a significant and urgent concern of food safety in food court in university campus across worldwide. To Achieve high levels of food safety during food and beverage handling in Food and beverage outlets of University campus to ensure the sustainability of the service quality.

3.5. Activities of Pharos University Clinics

Pharos University provides free treatment for the community in the field of dentistry and physical therapy and nutrition.

3.5.1. The faculty of dentistry have six clinics : student clinics & House Officer clinic, in addition to postgraduate clinic, outpatient clinic, dental implant clinic and operating room equipped with all modern medical equipment and equipment. These clinics provide therapeutic service annually to more than sixty thousand patients free of charge in various branches of dentistry, these service include Conservative Treatment, Filling, Fixed, Removable Prosthesis, Scaling, Root Planning, Pediatric and Minor surgery, these services done under supervision of highly qualified dental professors, these Practical Programs Prepare the Pharos Dental Student to be strong competitors in Labor Markets.

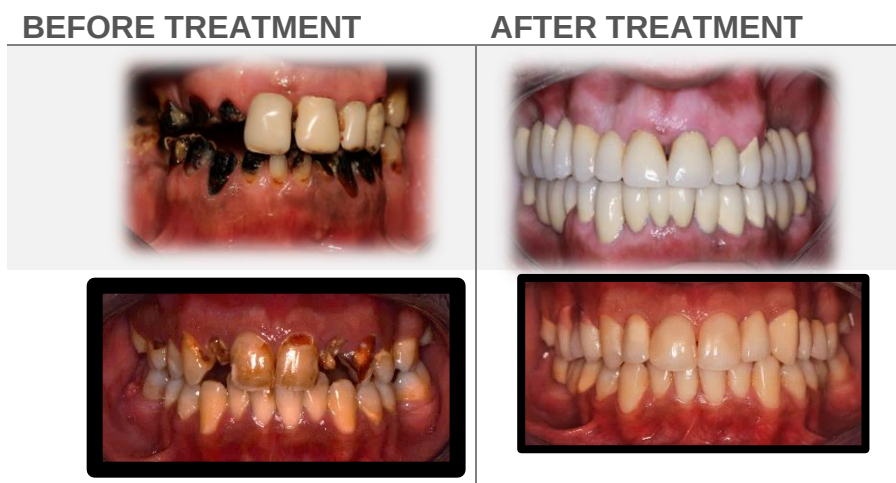
<https://www.pua.edu.eg/faculty-of-dentistry/dental-clinic/>

Another special program for the final year student called CCC (Comprehensive Clinical Case) which include Complete Oral and Dental Rehabilitation of clinical case under supervision of Dental Staff. The CCC include most or all dental branches like (surgery, Periodontology, Endodontic, Restorative, Filling, Removable, Crown and Bridge). Comprehensive case care program (CCC) is one of the programs that distinguish the Faculty of Dentistry of Pharos University as graduation projects for students because they provide a community service aimed at raising health awareness through integrated treatment and diagnostic services carried out by college students completely free for a large number of patients (Table 5)

Table 5. New and follow-up Frequent Cases Visiting the Dental clinic

Academic Year	No. of Patients (CCC)	New coming cases (Free treatment)	Follow-up Frequent (cases Free treatment Cases)
2017-2018	149	18845	29187
2018-2019	188	12738	28661
Total	337	31583	57484

Some examples:



3.5.2. The Faculty of Physical Therapy external clinics include the following departments

- Clinic for orthopedics and surgery, post operational rehabilitation and sports injury.
- Clinic for disabled children suffering delayed motor skills
- Clinic for neurological disorders and its surgery
- Clinic for electromyography and nerve conduction velocities
- Clinic for women health.

<https://www.pua.edu.eg/physical-therapy/#1555829383849-6d2ec5ee-5bdf>

The outpatient clinic receive the revealed cases in orthopedics, traumatology, neurology, neurosurgery, pediatrics, delayed motor development, diabetic feet and sports injuries under supervision of faculty members in addition to Electromyography (EMG unit). (Table 6 and Table 7) shows the number of children and adult patients in the academic year 2018-2019 respectively

<https://www.pua.edu.eg/physical-therapy/facilities/physical-therapy-outpatient-clinics/>.

Table 6. The number of children patients in the academic year 2018-2019

Month	No. of Patients in pediatric clinic	Average no. of patients per day
September 2018	139	5.56
October 2018	151	6.04
November 2018	249	10.38
December 2018	332	13.83
January 2019	255	10.63
February 2019	332	13.83
March 2019	329	16.45
April 2019	263	15.47
May 2019	328	14.92
June 2019	194	10.21

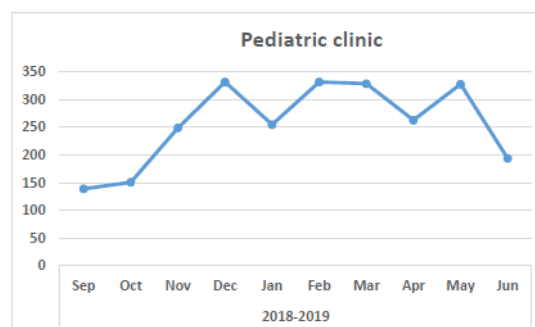
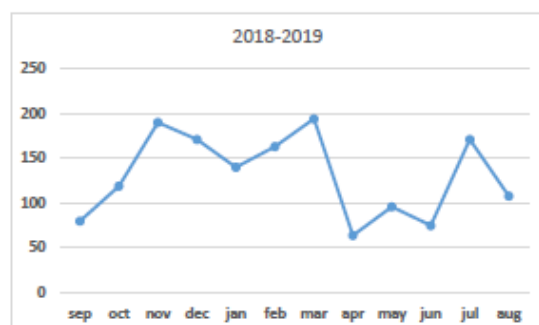


Table 7. The number of patients in adult clinic

Month	No. of Patients in adult clinic	Average no. of patients per day
September 2018	80	3.81
October 2018	119	5.41
November 2018	190	7.92
December 2018	171	7.43
January 2019	140	6.10
February 2019	163	6.79
March 2019	194	8.43
April 2019	64	4.0
May 2019	96	3.84
June 2019	75	3.41
July 2019	171	7.13
August 2019	108	5.68



3.5.3. *The Faculty of Applied Health Sciences Technology* provides the community with highly qualified specialists in different vital medical fields including nutrition, nursing and technologies of medical laboratories, medical equipment, radiology & medical imaging, optics, anesthesia & intensive care, and prosthodontic. Its facilities is provided in the link below.

<https://www.pua.edu.eg/allied-medical-sciences/facilities/>

3.6. Cooperation in Health Sector

3.6.1. Cooperation with Hospitals, NGOs and Private sector

Pharos University cooperates with governmental and private national hospitals that belongs to the Ministry of Health in Alexandria and Beheria governorates (Table 8). Training of students of the faculties of Pharmacy, dentistry, Applied health sciences and technology , and physical therapy are held in such hospitals.

Table 8. List of governmental and Private hospitals in Alexandria and Beheria Governorates that cooperated with Pharos University for t students' raining and internships

Hospital Name	Purpose
Armed Forces Hospital- Mustafa Kamel	Internships
Naval Forces Hospital	Internships
General Military Hospital	Internships
Institute of Medical research hospital	Training and internships
Faculty of Medicine Hospital of Alexandria University	Training and research
America Hospital	Training
Ahmed Maher Hospital	Students Projects
Abou Kir Hospital	Training
Gomhoria Hospital	Training
El Qasr El Ainy Hospital	Training
Dekernis Hospital	Training
Police Hospital	Training
Abou Homous Hospital	Training

Wenget Hospital	Training
El Menshawy Hospital	Training
57375 Hostital	Students activities
Burg El Arab Hospital	Students activities

3.6.2. . Cooperation with Ministers and governmental agencies

Pharos university cooperates with ministries and national directorates in the health sector (Table 9) as well as NGO (Table 10) for implementing Students' community projects.

Table 9. List of Ministries and National Directorates in the health sector that Pharos University cooperated with for for implementing Students' community projects.

Institute of Cultural Affairs	Students Projects
Education Directorate – Alexandria Governorate, Ministry of education	Community service projects
Education Directorate – Beheria Governorate, Ministry of education	Community service projects
Health Directorate – Ministry of Health	Community service projects
Cairo University	Research
Alexandria University	Research
Al Azhar University	Research Project
Menia University	Research Project
Academy of Science and Technology	Research Project
High Institute of Public Health	Research Project

Table 10. List of NGOs that Pharos University Cooperates with for Community Service Projects

Egyptian Network for Research Ethics Committees	Research Project
Naba'a Al Hayat Foundation	Community service projects
Mojeeb Al Salayen Foundation	Community service projects
Al Staqrar Foundation	Community service projects
Kafalat Al Yateem Foundation at Fata neighborhood	Community service projects
Al Qalaa for Community Development.	Community service projects
Eleen ElGaria association	Community service projects
Abdel Kadr Association	Community service projects
Tarek Charity Association (Mustafa Kamel)	Community service projects
Abu Masoud Suburb (Amiria)	Community service projects
Ayadi Mostakbal medical center (NGO)	Training
Omda Development Association (NGO)	Students Projects
Association of community based rehabilitation for disabled children (NGO)	Students Projects
Red Crescent Association (Mohandeseen)	

3.6.3. . Cooperation with Private sector

Private sector is an important sector that Pharos university is keen to cooperate with for different purposes, mainly for meeting, conferences and workshops. Such meetings allow the recognition of new trends in the local and regional market, and allow meeting the market needs.

Table 11. List of private sectors That Pharos University Cooperates with

Company name	Type of cooperation
Eva Pharma	Participation in Conference
Innova Pharma	Participation in Conference
Hygint Pharmaceutical company Ltd.	Participation in Conference
Goweily Academy	Workshops
Andalusia Hospital (Private Hospital)	Students activities
El Yousr Hospital (private Hospital)	Students Projects
Fawzy Moaaz Hospital (Private Hospital)	

3.6.4. International Cooperation in the field of Health:

Pharos University received a high-ranking delegation of the *KTH Royal Institute of Technology* on Thursday, 26 September 2019. The delegation was comprised of Prof. Stefan Ostlund, the Vice President for Global Relations at the KTH Royal Institute of Technology and Prof. Albania Nissan, the KTH-PUA Joint Program Leader. The visit included meetings with the aim of establishing cooperation between the two parties in the field of Pharmacy. Prof. Stefan Ostlund praised the research concerning facilities at the faculty of Pharmacy and Drug Manufacturing and gave approval to start cooperation in the field of research between the faculty and the KTH Institute. Table 12 is the list of International MOUs established with European universities in the health sector.

<https://www.pua.edu.eg/a-kth-high-ranking-delegation-in-a-visit-to-pharos-university/>

Table 12. List of International MOUs established with European Universities in the Health sector.

Dentistry	The University of Naples Federico II, Italy
Pharmacy	Aston University, Birmingham, UK
	Kingston University, London, UK
	The University of Naples Federico II, Italy
	KTH Royal Institute of Technology
	JAMK University f Applied Sciences
	School of Pharmacy, University of Eastern Finland
	AUF)Agence Universitaire de la francophonie
	Kingston University
	Aston University
Physical therapy	Goethe' University , Frankfurt, Germany

3.7. Research Publications in the Health Sector

According to SCOPUS, Pharos University published 53 publications in the health sector during 2018. Below is the list of these research

The combined effects of multisized silver nanoparticles and pulsed magnetic field on K. pneumoniae

(2018) Bioinspired, Biomimetic and Nanobiomaterials, 8 (2), pp. 154-160. Cited 2 times.

El-Khatib, A.M., El-Kaliuoby, M.I., Elkhatib, M., Khalil, A.M.

- Faculty of Science, Alexandria University, Alexandria, Egypt
- Faculty of Engineering, Pharos University in Alexandria, Alexandria, Egypt
- Faculty of Education, Alexandria University, Alexandria, Egypt

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-5067703100&doi=10.1680%2fbibn.18.00042&partnerID=40&md5=c9e0)

[5067703100&doi=10.1680%2fbibn.18.00042&partnerID=40&md5=c9e0](https://www.scopus.com/inward/record.uri?eid=2-s2.0-5067703100&doi=10.1680%2fbibn.18.00042&partnerID=40&md5=c9e0) DOI: 10.1680/jbibn.18.00042

Characterization of the apical bridge barrier formed following amelogenin apexification

(2018) BMC Oral Health, 18 (1), art. no. 201, .

Mounir, M.M.F., Farsi, J.M.A., Alhazzazi, T.Y., Matar, M.A., El-Housseiny, A.A.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057756175&doi=10.1186%2fs12903-018-0641-0&partnerID=40&md5=> DOI: 10.1186/s12903-018-0641-0'

- King Abdulaziz University, Faculty of Dentistry, Department of Diagnostic Oral Sciences, Jeddah, Saudi Arabia
- Alexandria University, Department of Oral Biology, Faculty of Dentistry, Alexandria, Egypt
- Pharos University, Department of Pediatric Dentistry, Faculty of Dentistry, Alexandria, Egypt

Can miRNA712_3p be a promising biomarker for early diagnosis of toxoplasmosis?

(2018) Asian Pacific Journal of Tropical Medicine, 11 (12), pp. 688-692.

Mogahed, N.M.F.H., Khedr, S.I., Ghazala, R.A., Masoud, I.M.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059464077&doi=10.4103%2f1995-7645.248341&partnerID=40&md5=> DOI: 10.4103/1995-7645.248341

- Medical Parasitology Department, Faculty of Medicine, Alexandria University, Egypt
- Medical Biochemistry Department, Faculty of Medicine, Alexandria University, Egypt
- Pharmaceutical Chemistry, Faculty of Pharmacy and Drug Manufacturing, Pharos University in Alexandria, Alexandria, Egypt

Elaboration of polymersomes versus conventional liposomes for improving oral bioavailability of the anticancer flutamide

(2018) Nanomedicine, 13 (23), pp. 3025-3036. Cited 1 time.

Youssef, S.F., Elnaggar, Y.S., Abdallah, O.Y.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058082482&doi=10.2217%2fnnm-2018-0238&partnerID=40&md5=4b1> DOI: 10.2217/nnm-2018-0238

- Department of Pharmaceutics, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt
- Department of Pharmaceutics, Faculty of Pharmacy and Drug Manufacturing, Pharos University in Alexandria, Alexandria, Egypt

Effect of batch age on potency and dissolution of levothyroxine sodium tablets: impact of BP and USP monograph differences on dissolution results

(2018) Drug Development and Industrial Pharmacy, 44 (11), pp. 1762-1769.

Abou-Taleb, B.A., Nounou, M.I., Khalafallah, N., Khalil, S.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053375495&doi=10.1080%2f03639045.2018.1496446&partnerID=40> DOI: 10.1080/03639045.2018.1496446

- Department of Pharmaceutics, Faculty of Pharmacy and Drug Manufacturing, Pharos University in Alexandria (PUA), Alexandria, Egypt
- Department of Pharmaceutical Sciences, School of Pharmacy (SOP), University of Saint Joseph (USJ), Hartford, United States
- Department of Pharmaceutics, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt

Oral Brain-Targeted Microemulsion for Enhanced Piperine Delivery in Alzheimer's Disease Therapy: In Vitro Appraisal, In Vivo Activity, and Nanotoxicity

(2018) AAPS PharmSciTech, 19 (8), pp. 3698-3711. Cited 6 times.

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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053832440&doi=10.1208%2fs12249-018-1180-3&partnerID=40&md5=DOI:10.1208/s12249-018-1180-3>

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Oral Brain-Targeted Microemulsion for Enhanced Piperine Delivery in Alzheimer's Disease Therapy: In Vitro Appraisal, In Vivo Activity, and Nanotoxicity

(2018) AAPS PharmSciTech, 19 (8), pp. 3698-3711. Cited 6 times.

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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053832440&doi=10.1208%2fs12249-018-1180-3&partnerID=40&md5=DOI:10.1208/s12249-018-1180-3>

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- Department of Medical Biochemistry, Faculty of Medicine, Alexandria University, Alexandria, Egypt

Perceived sources of stress amongst dental students: A multicountry study

(2018) European Journal of Dental Education, 22 (4), pp. 258-271. Cited 4 times.

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- Department of Oral Diagnosis, College of Dentistry, Al-Qadisiyah University, Al-Diwaniya, Iraq

- Department of Removable Prosthodontics, Faculty of Dentistry, University of Zagreb, Zagreb, Croatia
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- Private Dental Clinic, Dhamar, Yemen

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- Department of Organic Chemistry, University of Barcelona, Martí i Franquès 1–11, Barcelona, 08028, Spain
- CIBER-BBN, Networking Centre on Bioengineering, Biomaterials and Nanomedicine, Barcelona Science Park, Baldori Reixac 10, Barcelona, 08028, Spain

A novel nasal almotriptan loaded solid lipid nanoparticles in mucoadhesive in situ gel formulation for brain targeting: Preparation, characterization and in vivo evaluation
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- Department of Botany and Microbiology, Faculty of Science, Alexandria University, Alexandria, Egypt

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Inhalable multi-compartmental phospholipid enveloped lipid core nanocomposites for localized mTOR inhibitor/herbal combined therapy of lung carcinoma

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- Department of Industrial Pharmacy, Faculty of Pharmacy, Alexandria University, Alexandria, 21521, Egypt
- Department of Pharmaceutics, Faculty of Pharmacy and Drug Manufacturing, Pharos University in Alexandria, Alexandria, Egypt

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3.8. Research collaborations (local, regional and international) in the Health Sector

Some of the publications above are carried out in collaboration with different institutions on the local, regional and international levels . Table 13 shows such publications and the level of collaboration in the health sector with associated links. In 2018, Pharos university has published 48 publication with local collaboration, 10 with regional collaboration, and another 10 with international collaboration in 2018 in the health sector.

Table 13 .Research collaborations (local, regional and international) and Publications in the Health Sector

Publication	Authors	• Affiliations	link	Collaboration		
				local	regional	Int.
The combined effects of multisized silver nanoparticles and pulsed magnetic field on K. pneumoniae (2018) Bioinspired, Biomimetic and Nanobiomaterials, 8 (2), pp. 154-160. Cited 2 times.	El-Khatib, A.M., El-Kaliuoby, M.I., Elkhatab, M., Khalil, A.M.	• Faculty of Science, Alexandria University, Alexandria, Egypt • Faculty of Engineering, Pharos University in Alexandria, Alexandria, Egypt • Faculty of Education, Alexandria University, Alexandria, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-5067703100&doi=10.1680%2fjbibn.18.00042&partnerID=40&md5=c9e0 DOI: 10.1680/jbibn.18.00042	√		
Characterization of the apical bridge barrier formed following amelogenin apexification (2018) BMC Oral Health, 18 (1), art. no. 201, .	Mounir, M.M.F., Farsi, J.M.A., Alhazzazi, T.Y., Matar, M.A., El-Housseiny, A.A.	• King Abdulaziz University, Faculty of Dentistry, Department of Diagnostic Oral Sciences, Jeddah, Saudi Arabia • Alexandria University, Department of Oral Biology, Faculty of Dentistry, Alexandria, Egypt • Pharos University, Department of Pediatric Dentistry, Faculty of Dentistry, Alexandria, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057756175&doi=10.1186%2fs12903-018-0641-0&partnerID=40&md5= DOI: 10.1186/s12903-018-0641-0	√	√	
Can miRNA712_3p be a promising biomarker for early diagnosis of toxoplasmosis? (2018) Asian Pacific Journal of Tropical Medicine, 11 (12), pp. 688-692.	Mogahed, N.M.F.H., Khedr, S.I., Ghazala, R.A., Masoud, I.M.	• Medical Parasitology Department, Faculty of Medicine, Alexandria University, Egypt • Medical Biochemistry Department, Faculty of Medicine, Alexandria University, Egypt • Pharmaceutical Chemistry, Faculty of Pharmacy and Drug Manufacturing, Pharos University in Alexandria, Alexandria, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059464077&doi=10.4103%2f1995-7645.248341&partnerID=40&md5= DOI: 10.4103/1995-7645.248341	√		
Elaboration of polymrsoes versus conventional liposomes for improving oral bioavailability of the anticancer flutamide (2018) Nanomedicine, 13 (23), pp.	Youssef, S.F., Elnaggar, Y.S., Abdallah, O.Y.	• Department of Pharmaceutics, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt • Department of Pharmaceutics, Faculty of Pharmacy and Drug Manufacturing, Pharos	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058082482&doi=10.2217%2fnnm-2018-0238&partnerID=40&md5=4b1 DOI: 10.2217/nnm-	√		

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Effect of batch age on potency and dissolution of levothyroxine sodium tablets: impact of BP and USP monograph differences on dissolution results (2018) Drug Development and Industrial Pharmacy, 44 (11), pp. 1762-1769.	Abou-Taleb, B.A., Nounou, M.I., Khalafallah, N., Khalil, S.	- Department of Pharmaceutics, Faculty of Pharmacy and Drug Manufacturing, Pharos University in Alexandria (PUA), Alexandria, Egypt - Department of Pharmaceutical Sciences, School of Pharmacy (SOP), University of Saint Joseph (USJ), Hartford, United States - Department of Pharmaceutics, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053375495&doi=10.1080%2f03639045.2018.1496446&partnerID=40&DOI:10.1080/03639045.2018.1496446	✓		✓
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		Maxillofacial Surgery and Diagnostic Sciences, College of Dentistry, Jazan University, Jazan, Saudi Arabia • Department of Oral Rehabilitation, Faculty of Dentistry, University of San Martín de Porres, Lima, Peru • Department of Restorative Dentistry, Faculty of Dentistry, University of the Western Cape, Cape Town, South Africa • Department of Prosthodontics and Crown-Bridge, College of Dental Surgery, BP Koirala Institute of Health Sciences, Dharan, Nepal • Department of Removable Prosthodontics, Faculty of Dentistry, Saint-Joseph University of Beirut, Beirut, Lebanon • Department of Restorative Dentistry, School of Dentistry of Ribeirão Preto, University of São Paulo, São Paulo, Brazil • Department of Prosthodontics and Crown-Bridge, A.B. Shetty Memorial Institute of Dental Sciences, Nitte University, Mangalore, India • Department of Prosthodontics, University College of Medicine and Dentistry, University of Lahore, Punjab, Pakistan • Private Dental Clinic, Punjab, Pakistan • Department of Implants and Removable Prosthodontics, Faculty of Dentistry, Pharos University in Alexandria, Alexandria, Egypt • Department of Basic Sciences, Faculty of Dentistry, University of Khartoum, Khartoum, Sudan • Department of Prosthodontics, Faculty of Dentistry, Al-Gazira University, Wad Medani, Sudan • Conservative Department, Faculty of Dentistry, Tamar University, Dhamar, Yemen				
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		Private Dental Clinic, Dhamar, Yemen			
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Sensitive inexpensive chromatographic determination of an antimicrobial combination in human plasma and its pharmacokinetic application	El-Kimary, E.I., Khamis, E.F., Belal, S.F., Abdel Moneim, M.M.	- Facult of Pharmacy, Department of Pharmaceutical Analytical Chemistry, University of Alexandria, Khartoum Square, El-Messalah, Alexandria, 21521, Egypt - Faculty of Pharmacy and Drug Manufacturing, Department of Pharmaceutical Chemistry, Pharos University in Alexandria, Alexandria, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053146864&doi=10.1016%2fj.jchromb.2018.09.008&partnerID=40&md DOI:10.1016/j.jchromb.2018.09.008	√	
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		Department of Pharmacology and Toxicology, Faculty of Pharmacy, Pharos University in Alexandria, 21311, Egypt				
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Novel cremochylomicrons for improved oral bioavailability of the	Elsheikh, M.A., Elnaggar, Y.S.R., Hamdy, D.A., Abdallah, O.Y.	• Department of Pharmaceutics, Faculty of Pharmacy, Alexandria University,	https://www.scopus.com/inward/record.uri?	√		√

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Burkholderia cepacia complex among intensive care unit patients in two private hospitals in Alexandria	El Kady, H., Mohamed, O.N.E.-D., Abaza, A.F., Zidan, Y.H.M.	Department of Medical Laboratory Technology, Faculty of Allied Medical Sciences, Pharos University, Alexandria,	https://www.scopus.com/inward/record.uri?eid=2-s2.0-	√		

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Effect of direct myofascial release and kinesio tape on axillary web syndrome (2018) Journal of Medical Sciences (Faisalabad), 18 (1), pp. 1-10.	Ibrahim, R.G.A.N., Khalaf, M.M.A.K., Elkerm, Y.M., El Safwany, M.M	• Department of Physical Therapy Surgery, Faculty of Physical Therapy, Pharos University, Canal El Mahmoudia Street Ezbet El-Nozha, Qism Sidi Gabir, Alexandria, Egypt • Department of Physical Therapy Surgery, Faculty of Physical Therapy, Cairo University, Cairo, Egypt • Clinical Oncology Medical Research Institute, Alexandria University, Alexandria, Egypt • Department of Radiological Sciences and Medical Imaging Technology, Faculty of Allied Medical Sciences, Pharos University, Alexandria, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046770076&doi=10.3923%2fjms.2018.1.10&partnerID=40&md5=0254 DOI: 10.3923/jms.2018.1.10	√		
Bioactive-Chylomicrons for Oral Lymphatic Targeting of Berberine Chloride: Novel Flow-Blockage Assay in Tissue-Based and Caco-2 Cell Line	Elsheikh, M.A., Elnaggar, Y.S.R., Otify, D.Y., Abdallah, O.Y	• .Department of Pharmaceutics, Faculty of Pharmacy, Alexandria University, 1-Azarita Square, Alexandria, Egypt • Department of Pharmaceutics, Faculty of Pharmacy, Damanhour University,	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040184796&doi=10.1007%2fs11095-017-2307-z&partnerID=40&md5=	√		

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Phytochylomicron as a dual nanocarrier for liver cancer targeting of luteolin: In vitro appraisal and pharmacodynamics (2018) Nanomedicine, 13 (2), . Cited 2 times.	Elnaggar, Y.S.R., Elsheikh, M.A., Abdallah, O.Y.	- Department of Pharmaceutics, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt - Department of Pharmaceutics, Faculty of Pharmacy Drug Manufacturing, Pharos University in Alexandria, Alexandria, Egypt - Department of Pharmaceutics, Faculty of Pharmacy, Damanhour University, Damanhour, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85038109543&doi=10.2217%2fnnm-2017-0220&partnerID=40&md5=826 DOI: 10.2217/nnm-2017-0220	√		
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		Egypt				
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Formulation of saudi propolis into biodegradable chitosan chips for vital pulpotomy (2018) Current Drug Delivery, 15 (1), pp. 97-109. Cited 2 times.	Balata, G.F., Abdelhady, M.I.S., Mahmoud, G.M., Matar, M.A., Abd El-Latif, A.N.	• Department of Pharmaceutics, Faculty of Pharmacy, Umm Al-Qura University, Makkah, Saudi Arabia • Department of Pharmaceutics, Faculty of Pharmacy, Zagazig University, Zagazig, Egypt • Department of Pharmacognosy, Faculty of Pharmacy, Umm Al-Qura University, Makkah, Saudi Arabia • Department of Pharmacognosy, Faculty of Pharmacy, Helwan University, Cairo, Egypt • Department of Pediatric Dentistry, Faculty of Dentistry, Pharos University, Alexandria, Egypt • Department of Oral Pathology, Faculty of Dentistry, Pharos University, Alexandria, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042169910&doi=10.2174%2f1567201814666170125121735&partnerID=10.2174/1567201814666170125121735 DOI: 10.2174/1567201814666170125121735	√	√	

Neuroprotective effect of berberine against environmental heavy metals-induced neurotoxicity and Alzheimer's-like disease in rats (2018) Food and Chemical Toxicology, 111, pp. 432-444. Cited 17 times.	Hussien, H.M., Abd-Elmegied, A., Ghareeb, D.A., Hafez, H.S., Ahmed, H.E.A., El-moneam, N.A.	• Pharmacology and Toxicology Department, Faculty of Pharmacy and drug manufacturing, Pharos University, Alexandria, Egypt • Biochemistry Department, Faculty of Science, Alexandria University Alexandria, Egypt • Biology Department, Faculty of Science, Beirut Arab University, Lebanon • Pharmaceutical and Fermentation Industries Development Centre, City for Scientific Research and Technology Applications, Alexandria, Egypt • Zoology Department, Faculty of Science, Suez University, Egypt • Pharmacognosy and Pharmaceutical Chemistry Department, College of Pharmacy, Taibah University, Al-Madinah Al-Munawarah, Saudi Arabia • Pharmaceutical Organic Chemistry Department, Faculty of Pharmacy, Al-Azhar University, Cairo, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85036619251&doi=10.1016%2fj.fct.2017.11.025&partnerID=40&md5=eef01016/j.fct.2017.11.025	✓	✓	
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SDG5. Gender equality

SDG5 Gender equality

Sustainable Development Strategy (Egypt's Vision 2030) entails a strategic vision, which is to provide a high quality education and training system for all, without discrimination. With this vision, students and trainees are provided with the necessary skills to help them think creatively and empower them technically and technologically; and contribute to the development of proud, creative, responsible and competitive citizens who accept diversity and differences, are proud of their country's history, and are eager to build its future and can compete with regional and international entities.

Pharos university believes in what came in the statements of the UN, that providing women and girls has equal access to education, health care, decent work. They fuel sustainable economies and benefit societies and humanity at large.

Since the foundation of Pharos University, there has been an attention given to the gender equality of students.

This is an annual report that provides data on the count of students, postgraduates, staff and assistant staff both full and part time (Part time staff is presented in terms of Full time equivalent (FTE)), as well as employees. These counts are used to monitor gender in Pharos University, and therefore, monitor the number of female each year, in order to keep pace with the international standards and to ensure that there is no gender disparity in women enrolment ratio at all levels. Internal Efficiency of student's ratio at each level is carefully examined to indicate whether there is a significant disparity between male and female students.

All the data presented in this report is supplied by managers of from different department and are analyzed interpreted and presented by the author of this report.

5.1. Students

With regard to students, Figure 1 below shows the percentage of male and female students at Pharos university students since its start in 20016 till 2019. This Figure shows a fair distribution between make and females in all cases. Data of provide in Appendix 1.

Table 14 show the total number of students enrolled for the first degree in 2018-2019 and Table 15. the gender equality estimate of the students of the first degree in medical sciences and arts and humanities



Figure 1. Percentage of Male and Female Students at Pharos University Students Since Its Start In 20016 Till 2019

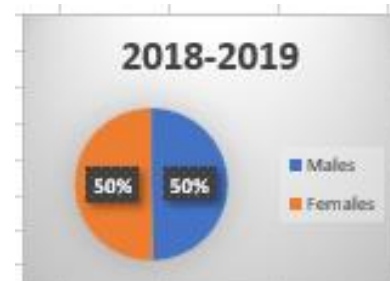


Table 14 The Count of Students of the first year 2018-2019 classified as Females and Males and associated ratio

Faculty	Females	Males	Total	Ratio Males to females
Pharmacy and Drug Manufacturing	318	197	515	1: 1.61
Dentistry	208	242	450	1: 0.86
Engineering	130	427	557	1: 0.30
Financial and Administrative Sciences	32	63	95	1: 0.5
Languages and Translation	199	66	265	1: 3
Legal Studies	31	129	160	1: 0.24
Tourism and Hotel Management	44	38	82	1: 16
Physical Therapy	191	134	325	1: 1.43
Mass Communication	129	84	213	1; 1.53
Applied health Sciences Technology	19	24	43	1: 0.79
Arts and Design	206	83	289	1: 2.5
Total	1507	1487	2994	1: 1.01

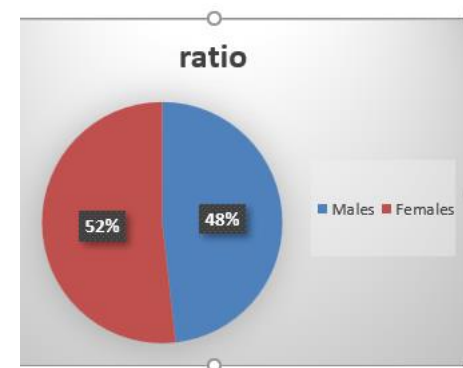


Table 15. Gender of Students in the First Degree in Medical Sciences and Arts and Humanities and Associated Ratio

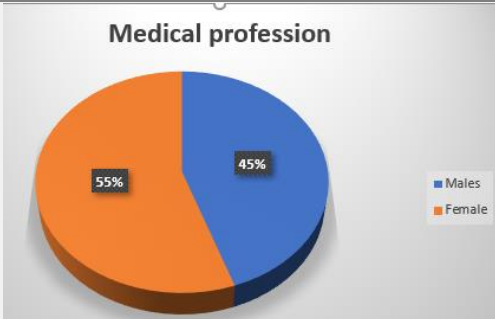
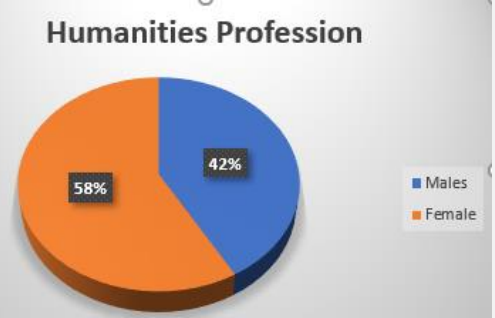
Medical Studies	Females	Males	Total	Medical profession 
Pharmacy	318	197	515	
Dentistry	208	242	450	
Physical Therapy	191	134	325	
Applied health Sciences Technology	19	24	43	
	736	597	1333	
Art/ Humanity + Social Studies	Females	Males	Total	Humanities Profession 
Architectural	72	47	119	
Financial and Administrative Sciences	32	63	95	
Languages and Translation	199	66	265	
Legal Studies	31	129	160	
Tourism and Hotel Management	44	38	82	
Mass Communication	129	84	213	
Arts and Design	206	83	326	
	713	510	1223	
Gender Ratio (Males: Females)				
Medical Studies	1 : 1.23			
Art/ Humanity + Social Studies	1 : 1.4			

Table 16 shows the students of different specializations that are still in the bachelor's degree, about to graduate. To these students, a number of pending students from different levels are added. These students either dropped an academic term or did not pass some subjects and therefore does not achieve the number of credits that allows them to be transferred to the higher level.

Table 16. Gender of Bachelor – level Students In Medical Sciences and Arts And Humanities. (Note Pending Students are Those Pending To Graduate from Different Study Levels)				
		Females +Pending	Males + Pending	Total +pending
	Medical Studies			
	Pharmacy	273 +1	177 +4	450+6
	Dentistry	177+ 4	209+20	386+24
	Physical Therapy	191 + 9	96 +12	287 +21
	Applied health Sciences Technology	235 + 20	182 +23	417+43
	Subtotal	876+34	644 +59	1540 +94
	Art/ Humanity + Social Studies	Females + Pending	Males +Pending	Total + Pending
	Architectural	29 + 3	27+6	46 + 9
	Financial and Administrative Sciences	41+7	59+18	100 + 25
	Languages and Translation	133 + 16	33+ 7	166+23
	Legal Studies	42 + 4	112 +6	154 + 10
	Tourism and Hotel Management	34 + 6	31 + 7	65 + 13
	Mass Communication	99 + 14	44+11	143+ 25
	Arts and Design	146 + 11	74+6	250 +17
	subtotal	524 + 61	380 +61	904 + 122
		1400 +95	1024 + 122	2464
	Grand total			2444 + 216

5.2. Graduates

With regard to graduates of Pharos university for the year 2018-2019 are provided in Table 17 below. This table shows that the gender ratio males to females is just about right, 1: 1.31, with slight increase in the number of Females over males.

Table 17. The Count of Graduates of Pharos University for the year 2018 -2019 classified as Males and Females per Faculty and Associated Ratio.

	#	Faculty	Females	Males	Total	Ratio Females/ Males
	1	Pharmacy and Drug Manufacturing	301	166	467	1: 1.81
	2	Dentistry	192	233	425	1: 0.82
	3	Engineering	59	237	296	1: 0.25
	4	Financial and Administrative Sciences	30	58	88	1: 0.52
	5	Languages and Translation	94	16	110	1: 5.88
	6	Legal Studies	10	25	35	1: 0.40
	7	Tourism and Hotel Management	13	8	21	1: 1.63
	8	Physical Therapy	209	96	305	1: 2.18
	9	Mass Communication	77	33	110	1: 2.33
	10	Applied health Sciences Technology	237	116	353	1: 2.04
	11	Arts and Design	126	42	168	1: 3.00
		Total	1348	1030	2378	1 : 1.31

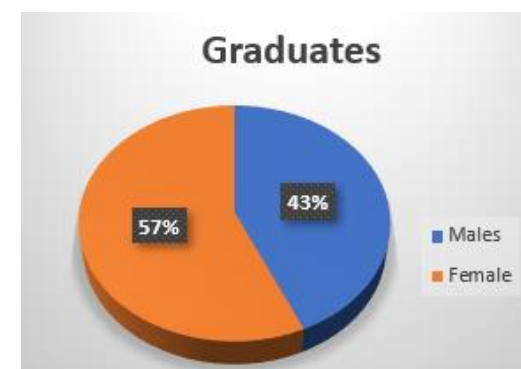


Table 18. . is showing the graduates of the first degree (Bachelor) in different specializations, classified by Gender. This Table shows that generally females are exceeding males in the medical and Humanities, but STEM.

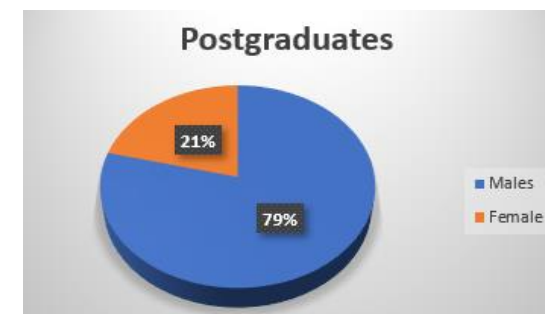
Table 18. Gender of First-Degree graduates (Bachelor) In Medical Sciences, Arts and Humanities, and STEM					
		Females	Males	Total	Ratio
	Medical Studies				
	Pharmacy	301	166	467	
	Dentistry	192	233	415	
	Physical Therapy	209	96	305	
	Applied health Sciences Technology	237	116	353	
	Subtotal	939	611	1550	1: 1.5
	Art/ Humanity + Social Studies				
	Architectural	28	26	54	
	Financial and Administrative Sciences	30	58	88	
	Languages and Translation	10	25	35	
	Legal Studies	94	16	110	
	Tourism and Hotel Management	13	8	21	
	Mass Communication	77	33	110	
	Arts and Design	126	42	168	
	subtotal	378	208	586	1: 1.89
	STEM	31	211	242	1: 0.14
	Grand total			2378	

5.3. Postgraduates

With regard to the postgraduate students that are registered in the year 2018-2019, they are 3 students in Pharmacy including only 1 female, and 8 students in Dentistry including 3 Females. Adding these to the postgraduates of the previous year (as they did not graduate yet), the total number of postgraduate students is presented in Table 19 below.

TABLE 19. THE COUNT OF POSTGRADUATE STUDENTS FOR THE ACADEMIC YEAR 2017/2019 AND ASSOCIATED RATIO

FACULTY NAME	Females			Male			Total	Ratio Male : Female
	2017- 2018	2018- 2019	Total	2017- 2018	2018- 2019	Total		
PHARMACY AND DRUG MANUFACTURING	1	1	2	9	2	11	13	1: 0.18
DENTISTRY	3	3	6	14	5	19	25	1: 0.32
TOTAL	4	4	8	13	7	30	38	1: 0.27



5.4. Academic Staff

With regard to staff members and assistant staff (full time) , the estimates are provided in Tables 20 and 21 with associated Ratios for the academic year 2018-2019. These two tables show that females in the staff members and assistant staff counts are both slightly higher in females than males. Both estimates conform with the gender equality policy of Pharos University

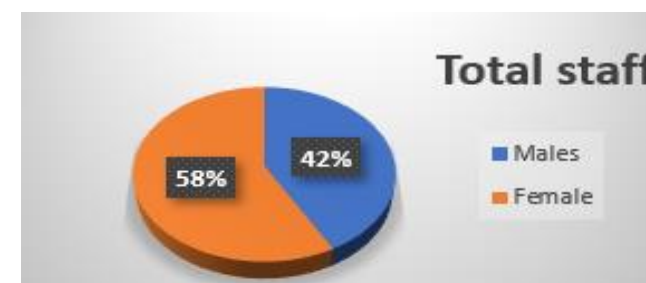
Table 20. Total count of Staff Members (Full Time) in each of the 11 Faculties classified as Males & Females and Associated Ratio

<i>Faculty</i>	<i>Total Count</i>	<i>Male</i>	<i>Female</i>	<i>Ratio Male : Female</i>
<i>Pharmacy and Drug Manufacturing</i>	54	10	44	1: 4.4
<i>Dentistry</i>	35	11	24	1: 2.18
<i>Engineering</i>	51	27	24	1: 0.88
<i>Financial and Administrative</i>	12	9	3	1: 0.33
<i>Languages and Translation</i>	12	4	8	1: 2
<i>Legal Studies and International Relations</i>	9	9	0	0
<i>Tourism and Hotel Management</i>	8	4	4	1: 1
<i>Mass Communication</i>	11	6	5	1: 0.83
<i>Arts and Design</i>	16	4	12	1: 3
<i>Applied Health Sciences Technology</i>	35	16	19	1: 1.18
<i>Physical Therapy</i>	14	5	9	1: 1.8
<i>Total</i>	257	105	152	1: 1.44



Table 21. Total Count of Assistant Staff (full Time) in each of the 11 Faculties classified as Males & Females and Associated Ratio

<i>Faculty</i>	<i>Total count</i>	<i>Male</i>	<i>Female</i>	<i>Ratio (Males : Females)</i>
<i>Pharmacy and Drug Manufacturing</i>	80	17	63	1: 3.70
<i>Dentistry</i>	87	28	59	1: 2.10
<i>Engineering</i>	66	23	43	1: 1.86
<i>Financial and Administrative</i>	19	2	17	1: 8.5
<i>Languages and Translation</i>	15	1	14	1: 14
<i>Legal Studies and International Relations</i>	8	2	6	1: 3
<i>Tourism and Hotel Management</i>	8	5	3	1: 0.6
<i>Mass Communication</i>	13	2	11	1: 5.5
<i>Arts and Design</i>	45	2	43	1: 21.5
<i>Applied Health Sciences Technology</i>	60	13	47	1: 3.61
<i>Physical Therapy</i>	47	13	34	1: 2.61
<i>Total</i>	448	108	340	1: 3.14



The total count of staff members and assistant staff is 705, with 213 males and 492 females. These accounts for the ratio (Male : female) of 1: 2.3.

Table 22. The Count of Adjunct professors (Part time) staff members, Assistant Staff and Free Lancer members classified as Females and Males and Associated Ratio

	Staff members									Assistant Staff						Free Lancers		
	Professors			Assistant Professors			Lecturers PhD Holders			Assistant lecturers M.Sc. Holders			Demonstrators					
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
count	44	22	66	16	8	24	27	22	49	5	27	32	9	26	35	64	67	161
FTE	14.6	7.3	22	5.3	2.6	8	9	7.3	16.3	1.6	9	10.6	3	8.6	11.6	21.3	22.3	53.7
M:F Ratio (FTE)	1: 0.5			1: 0.5			1: 0.8			1: 5.6			1: 2.9			1:1.05		

Total Adjunct Staff = 337, of which 165 are Males, and 172 are females

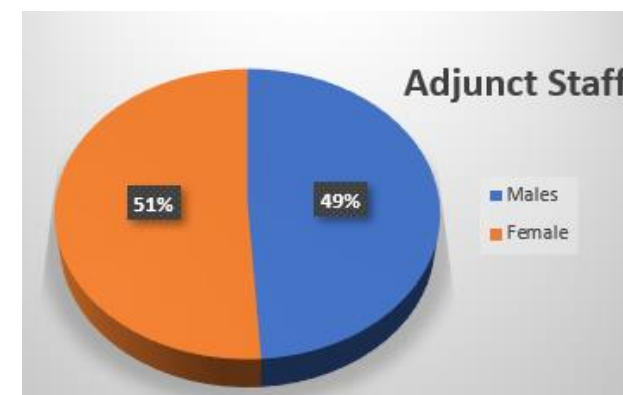


Table 23 below, shows the counts of staff Members of Superior positions in each of the 11 Faculty Councils Faculties classified as Males & Females. These counts include deans, head of Departments, professors and assistant professors. The total count satisfies the gender ratio (male to female) of 1: 0.9.

Table 23. The Count of superior positions - Faculties level and associated Ratio

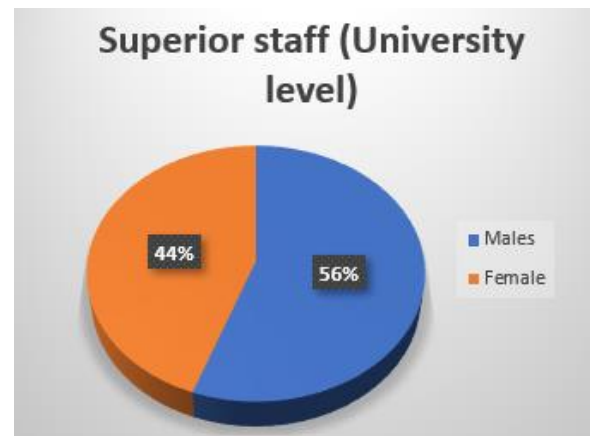
Faculty	Total Number	Males	Female	Rates
Pharmacy and Drug Manufacturing	13	3	10	1: 3.33
Tourism and Hotel Management	13	8	5	1: 0.65
Legal Studies and International Relations	4	4	0	0
Languages and Translation	18	7	11	1: 1.57
Financial and Administrative	11	8	3	1: 0.37
Engineering	44	25	19	1: 0.76
Dentistry	15	6	9	1: 1.5
Arts and Design	9	2	7	1; 3.5
Applied Health Sciences Technology	29	13	16	1: 1.23
Physical Therapy	7	3	4	1: 1.33
Mass Communication	19	10	9	1: 0.9
Total	182	89	93	1: 1.05



Table 24 . shows the count of superior positions on the level of entire University level. The gender ratio (males to females) in this case is 1: 0.8

Table 24 . The Count of superior positions - University level and Associated Ratio

Position	Males	Females	Total	Ratio
University President	1	0	1	0
Vice Presidents	2	1	3	1 : 0.5
Head of Central Quality Assurance Unit	0	1	1	1: 0
Advisors to the President	1	1	2	1: 1
Deans	6	5	11	1: 0.83
Total	10	8	18	1: 0.8

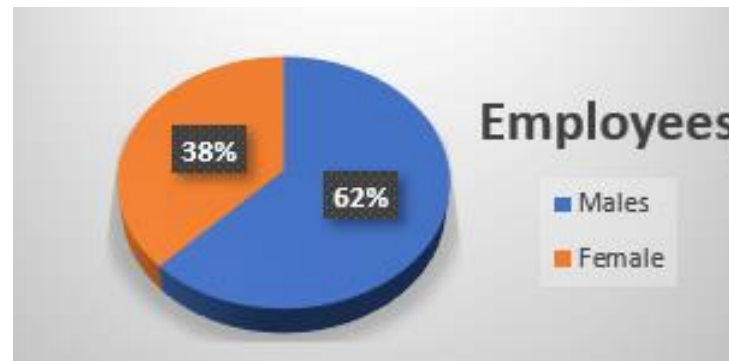


5.5. Employees

Finally, the gender distribution of the employees in the university is presented in Table 25 below. This Table shows that Male employees are about double the female employees. The main reason for this disparity is the position of male employees in the security section of the university. They constitute 138 male employees out of a total count of 142.

Table 25. The total count of Employees classified as Females and Males and associated Ratio

Position count	Females	Males	Total	Ratio (Males: females)
Total Administrational positions	267	597	864	1: 0.45
Specialized Lab. Technicians	81	43	124	1: 1.89
Outpatient clinic	46	12	58	1: 3.83
Total	394	652	1046	1: 0.60



5.6. Conclusions

- 1. Women are well presented in all disciplines of the University. They have equal rights and foot to men to men in education rights, jobs, research and participation in all activities.**
- 2. Women are included in senior jobs at the administrative faculty and university levels.**
- 3. Women in Pharos University are subject to maternity and paternity policies that support their inclusion in all work places with equal rights to men according to the Women national bylaws (Appendix) <https://www.pua.edu.eg/wp-content/uploads/2019/12/Policy-Statements-2018.pdf>**
- 4. Women in Pharos University are on equal pay scale equity including commitment to elimination of gender pay gaps in accordance to the annual track measure of the pay scale equity.**

SDG6 : Clean water and sanitation

Access to water and sanitation are basic human rights and are critical sustainable development challenges. Pharos university is involved in the following activities

6.1. University management Plan for water conservation

Pharos University is implementing a plan for the re-use of water in its premises.

- (a) **wastewater** and as per the records of the university administration, wastewater from washing rooms, kitchens, and laboratories are collected and channeled to a specialized company to manage the recycling process and get rid of toxic material in a safe way.
- (b) **Reuse of water:** The university manage a process for rainwater collection and fresh water disposed from air conditions. Both water sources are channeled and stored in a 15m³ water tank for reuse in irrigation of the green areas that reach about 21000 m² of landscape, and the play green ground. With this amount of water, the green areas in Pharos University is expected to increase by another 1000 m² (27 green plots)
- (c) **Drinking water:** Drinking water quality is maintained at the university premises by installing 3 -level filters at the source inlet to purify drinking water before use by university members.

6.2. Graduation projects:

Identifying and contributing to solving problems related to clean water and sanitation is one of the concerns of Pharos University. The Faculty of Engineering is conducting several graduation projects for the Academic year 2018 as follows:

- Experimental analysis of a multi-stage solar distiller using an evacuated parabolic solar trough with a solar tracker
- Seawater desalination
- Retrofit of RO desalination plant capacity from 240 m³/day to 600m³/day Using pressure exchanger
- Design of Thermo Electric Atmospheric Water Generator (TEAWG)
- Experimental analysis of a multi-stage solar distiller using an evacuated parabolic solar trough with a solar tracker

6.3. Conferences:

The Faculty of legal Studies and International Relations organized a workshop on “ **Legal and Political Perspectives on Egypt’s Water Security**” on the academic year 2018-2019. The conference addressed a number of major issues; the legal and political perspectives on Egypt’s Water Security, making a reference to the Grand Ethiopian Renaissance Dam (Al Nahda Dam) (GERD) and its effects on Egypt’s water supply. The conference also tackled the technical and statistical aspects of the issue, the GERD’s negative impact on Egypt’s Nile water share and the peaceful plan of action should be taken to maintain Egypt’s water security. It is worth mentioning that the conference aims at assessing Egypt’s situation in regard to water allocations, the factors that could impact this situation, putting a strategy to maintain and enhance Egypt’s water resources, shedding light on the government policy in this respect and exchanging opinions of the best way to face these challenges and providing the legal documents that support Egypt’s situation.

[Conferenceshttps://www.pua.edu.eg/legal-and-political-perspectives-on-egypts-water-security/](https://www.pua.edu.eg/legal-and-political-perspectives-on-egypts-water-security/)

6.4. Reach out activities (Awareness Brochures)

The Faculty of Pharmacy produces several brochures for awareness about water issues. Below are two Figures showing these brochures



SDG7: Affordable and Clean Energy

Modern society depends on reliable and affordable energy services to function smoothly and to develop equitably. This goal aims to “ensure access to affordable, reliable, sustainable and modern energy for all,”

7.1. Pharos university Plan to conserve energy

In Pharos University, and according to the records of the university administration, all external lighting posts at the university are lightened by the use solar panels. In addition to the replacement of high energy lamps by energy saving LED and Fluorescent lamps . The university also has the policy to disconnect all air conditions during the winter period (about 4 months) to conserve the annual energy consumption.

7.2. Graduation Projects

Renewable Energy is becoming increasingly important for Higher Education Institutions (HEIs) in tackling high carbon footprint. Identifying and contributing to solving problems related to energy is one of the concerns of Pharos University. The Faculty of Engineering conducted several graduation projects for the Academic year 2018 as follows:

- Design and optimization of network solar collectors for swimming pool heating application
- Design, Modeling and performance analysis of solar still
- Energy storage and waste heat management
- Renewable energy applications
-

7.3 Competition Among Engineering Students in “Towards Sustainable Tomorrow Competition”

The graduation projects of *Faculty of Engineering* organized the above competition for the departments of (Petrochemical, Architectural, Mechanical and Electrical Engineering). Eight projects were selected to compete in the competition of “Towards Sustainable Tomorrow” that was organized by the Faculty of Engineering in the coordination with **Birla Carbon Company**. The company presented three financial awards for the best three projects.

The two presented projects from Petrochemical Engineering Department came in the first place among eight graduation projects that were selected to participate in Birla Carbon Company competition. The first project, entitled “Production of Liquid Fuels from Waste Polystyrene Foam and Molded Polystyrene”, The second project was about “Production of Slow Release Urea



Fertilizer” These two projects won a 17000 L.E award. The Electrical Engineering Department came in the second place for a project entitled “Moving Towards Energy, Efficient and Sustainable Building”. and received a 12000 L.E award. See Figures

<https://www.pua.edu.eg/petrochemical-engineering-department-won-the-first-place-in-towards-sustainable-tomorrow-competition/>

<https://www.pua.edu.eg/a-strong-competition-among-engineering-students-in-towards-sustainable-tomorrow-competition/>

Another Competition was organized by the *Faculty of Engineering* For school students for Robots.

The “Egypt Open Robotics Competition in the Academic year 2018- 2019” was held on 8–9 September, 2019. This competition was held for the third consecutive year, which is considered, a doorway for the Arab Robotics and AI Association. This was held in joint coordination between Pharos University and the Arab Robotics and AI Association. About 163 teams consisted of 700 students from different governorates participated in this competition. The age group that participated in this competition started from 6 years old to the students of universities.

The competition consisted of 4 rounds: Sumo, Ball collector, Line Follower and Innovation competition.

The students of the faculty of Engineering- Pharos University participated in this competition by presenting two projects in the Free Innovation round.

<https://www.pua.edu.eg/egypt-open-robotics-competition/>

7.4. Cooperation in the field of Renewable Energy

The faculty of Engineering- Pharos University signed a cooperation protocol with the New and Renewable Energy Authority on Tuesday 6/11/2018 on the premises of the faculty. The New and Renewable Energy Authority (NREA) which is affiliated to the Ministry of Electricity and Renewable Energy On signing the protocol, This protocol aimed at exchanging experiences and information. between the two parties and providing the faculty's students and researchers with training programmes.

<https://www.pua.edu.eg/the-faculty-of-engineering-pharos-university-signed-a-cooperation-protocol-with-the-new-and-renewable-energy-authority/>

In the light of this cooperation, the Electrical Engineering Department of the Faculty of Engineering organized a field trip to the New and Renewable Energy Authority (NREA) on Sunday 16/12/2018 to develop the skills of its students and link the academic study to the requirements of the labour market. The students were acquainted with the NREA authorities and its relationship with the certification of electrical products. This visit was considered the first after the cooperation protocol signed between the NREA and Pharos University on the 6th of November 2018. During the visit, the two parties exchanged ideas about how to put the signed protocol into force and promote cooperation between the two institutions in many activities like providing training for PUA students and facilitating researches. The delegation was also apprised of the results of the tests conducted by the NREA laboratories. By the end of the visit, the two parties exchanged plaques in celebration of this cooperation.

<https://www.pua.edu.eg/the-electrical-engineering-department-organized-a-field-trip-to-the-new-and-renewable-energy-authority-nrea/>

<https://www.pua.edu.eg/a-visit-to-the-new-and-renewable-energy-authority/>

7.5. Conferences

The *Faculty of Engineering* in cooperation with the *Royal Institute of Technology (KTH)*, *Stockholm, Sweden* organized the “2nd International Conference on New Trends for Sustainable Energy (ICNTSE)” on 5-7 November 2018 .

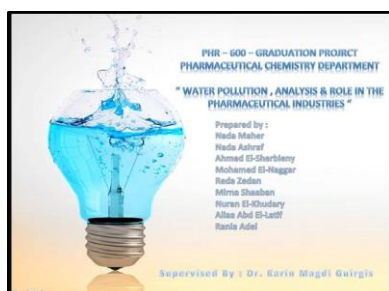
The recommendations of the conference are as follows:

1. *Enacting laws and legislations related to renewable energy, protecting innovations in this field, and coordinating Arab laws and legislations in support of complementarity in the energy field.*
2. *Focus on applications of the use of new and renewable energies in universities and scientific research centers, with a focus on the topic of sustainability and sustainable development and its relationship to energy.*
3. *The need to consider replacing traditional energy sources in industrial establishments with alternative sources, especially agricultural, household and industrial biological wastes, taking into account compliance with environmental standards and international agreements related to pollution control and environmental protection.*
4. *Benefiting from the successful international experiences in the field of renewable energy, especially the experiences of Japan, India and Brazil.*
5. *Spreading awareness on the importance of sustainable development and new technologies in the field of energy and activating national efforts aimed at accelerating the entry into the era of new and renewable energy.*
6. *Prepare for the future for the use of hydrogen energy as the energy of the future that is less expensive, safer, clean and environmentally friendly.*
7. *Exempting the components of new and renewable energy industries from customs, especially batteries and spare parts.*
8. *Attention be given to rationalizing electric energy consumption, reducing power, and setting programs to develop awareness of the importance of energy and rationalizing its use at home and industry.*
9. *coordination between the Ministry of Electricity and Energy and the private sector that intends to invest in the private sector in terms of: type and capacity of new energy, quality of the outlet, impact on the network, and planning to increase the capacity of transmission lines in the network.*
10. *Speed up the completion of the network code for new and renewable energy.*
11. *Enhance applied research cooperation between universities and research and industry centers, and to emphasize on the outputs of real models of new and renewable energy systems.*
12. *Work on developing technical cadres necessary for the industry of new and renewable energy technologies of all kinds so that to support investment in this sector.*
13. *Proposing the Faculty of Engineering at Pharos University in Alexandria to be a center for launching awareness initiatives on developments, technologies, developing reports related to sustainability, and proposing to organize training courses and develop curricula in this field.*
14. *Follow up these recommendations and ensure its continuation in the coming years.*
15. *Composing a forum consisting of Pharos University and Cairo University and the companies that participated*

<https://www.pua.edu.eg/faculty-of-engineering/conferences/icntse-2018/>

7.6. Reach out Activities (Awareness Brochures)

The Faculty of Pharmacy staff and students designed brochures to spread awareness about energy conservation in the university premises and in daily life. The brochures were printed and distributed to students and staff member. The following represent a sample of these brochures:



7.7. Research Publications

According to SCOPUS database , Pharos University published the following papers:

Power Allocation for Full-Duplex MISO Underlay Cognitive Radio Networks with Energy Harvesting

El-Malek, A.H.A., Aboulhassan, M.A., Abdou, M.A.

(2018) IEEE International Conference on Communications, 2018-May, art. no. 8422856, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051419417&doi=10.1109%2fICC.2018.8422856&partnerID=40&md5=DOI:10.1109/ICC.2018.8422856)

[85051419417&doi=10.1109%2fICC.2018.8422856&partnerID=40&md5=DOI:](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051419417&doi=10.1109%2fICC.2018.8422856&partnerID=40&md5=DOI:10.1109/ICC.2018.8422856)

[10.1109/ICC.2018.8422856](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051419417&doi=10.1109%2fICC.2018.8422856&partnerID=40&md5=DOI:10.1109/ICC.2018.8422856)

Full-energy peak efficiency of asymmetrical polyhedron germanium detector

Abbas, M.I., Yoseph, S., El-Khatib, A.M., Badawi, M.S., Gouda, M.M., Thabet, A.A.

(2018) Nuclear Technology and Radiation Protection, 33 (2), pp. 150-158. Cited 1

time. [https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053236508&doi=10.2298%2fNTRP1802150A&partnerID=40&md5=b2DOI:10.2298/NTRP1802150A)

[85053236508&doi=10.2298%2fNTRP1802150A&partnerID=40&md5=b2 DOI:](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053236508&doi=10.2298%2fNTRP1802150A&partnerID=40&md5=b2DOI:10.2298/NTRP1802150A)

[10.2298/NTRP1802150A](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053236508&doi=10.2298%2fNTRP1802150A&partnerID=40&md5=b2DOI:10.2298/NTRP1802150A)

SDG8. Decent work and Economic Growth

8.1. Policies

Within the context of providing decent workplaces and economic growth, Pharos University adopts policies to reduce informal employment and gender pay gap and promote safe and secure working environments to create decent work for academic staff and employees and secure their workplace.

<https://www.pua.edu.eg/wp-content/uploads/2019/12/Policy-Statements-2018.pdf>

For students and graduates, Pharos University is keen to increase employment opportunities. For this purpose, the following activities were carried out in the Academic year 2018-2019

8.2. Meetings in Collaboration

8.2.1. The career development and entrepreneurship center of Pharos University participated in the first round-table meeting in cooperation with the French Chamber of Commerce and Industry to promote cooperation between academia and business sector. The aim of this meeting is to support innovation and entrepreneurship and encourage spin-offs.

<https://www.pua.edu.eg/a-kth-high-ranking-delegation-in-a-visit-to-pharos-university/>

It is worth mentioning that at Egypt Legal Tech Hackathon 2019; an international competition in legal entrepreneurship. This competition is the first project for the CIIPEE Centre (Centre pour l'Insertion Professionnelle, l'Innovation et l'Entrepreneuriat en Egypte) which is opened in Senghor University.

<https://www.pua.edu.eg/46679/>

8.2.2. Another meeting was held in collaboration with JAMK University of Applied Sciences, hosts the first week of innovation to be held under the title of "JAMK INNOFlash" from 21-24 April at Pharos University. This was held in the presence of Mr. Mieskolainen Matti, a lecturer at the JAMK University of Applied Sciences. The first week of innovation will be attended by PUA students from different faculties.

<https://www.pua.edu.eg/the-cdec-participated-in-the-ba-round-table-meeting-for-promoting-cooperation-between-academia-and-business-sector/>

8.3. Job Fairs

8.3.1. For Employability, Pharos University held its 2nd Employment Fair on March 2018, where The faculty of Financial and Administrative Sciences organised the day in collaboration with 15 companies. The fair was restricted only to PUA alumni of the following faculties:

- The faculty of Financial and Administrative Sciences
- The faculty of Engineering
- The faculty of Languages and Translation
- The faculty of Mass Communication

The Employment Fair of Pharos University hosts the following companies:

- Innovation Collaboration Entrepreneurship (ICE Alex).
- Maridive Group.
- Easy Care.
- Badr Software Company.

- T-HUB Foundation for Business Consulting and Recruitment.
- Hands in Technology for Web & Mobile Application Development.
- AI-Academy.
- Vodafone UK.
- Stanly Group.
- I-Lead School.
- X Desktop Group (XDG).
- Sutherland Company for Global Services.
- Institute of Finance & Management
- Kasr El Salam Company for Real Estate & Commercial Investment
- MIDO for Modern Coatings.

<https://www.pua.edu.eg/pharos-university-holds-its-2nd-employment-fair/>

8.3.2. The students' federation of the faculty of Pharmacy and Pharmaceutical Manufacturing- Pharos University organized the 9th job fair. It was held in the presence of faculty staff, teaching assistants on Tuesday 23/04/2019 at university theatre. The faculty organizes this job fair each year to allow chances for the students to know the different fields and get job and training vacancies by presenting their CVs in hand. This job fair also gained a huge success. Twenty-three companies and different pharmacies participated in this job fair, many of the students of Pharmacy and Pharmaceutical Manufacturing and some students from the other faculties.

<https://www.pua.edu.eg/the-9th-job-fair/>

8.3.3. The faculty of Financial and Administrative Sciences holds the 9th Job Fair on Monday, 15 April, 2019 at the Student Theatre. A number of distinguished companies will participate in the fair.

<https://www.pua.edu.eg/the-faculty-of-financial-and-administrative-sciences-holds-its-9th-job-fair/>

8.4. Conferences and Seminars

8.4.1. *The Faculty of Financial and Administrative Sciences at Pharos University, in collaboration with the TU Dublin, holds the "fifth international conference of Business Innovation and Economic Sustainability Challenges"* on April, 2019 in PUA Conference Hall. The Faculty members attended the conference, along with teaching assistants who presented several scientific researches in the conference. It is worth mentioning that the conference witnessed the participation of many researchers from different estimable universities and academic organizations such as:

- TU Dublin in Ireland.
- JAMK University in Finland.
- The German University in Cairo.
- Alexandria University.
- The Faculty of Economics and Political Science- Cairo University.
- The Arab Academy for Science and Technology.
- Alexandria Higher Institute of Engineering and Technology.

<https://www.pua.edu.eg/pharos-university-holds-the-5th-international-conference-of-business-innovation-and-economic-sustainability-challenges/>

8.4.2. Within the framework of the endeavours of the faculty of Mass Communication to constantly communicate with its graduates, a seminar entitled "The Gap between University Education and Labor Market" was organized for the faculty alumni on Tuesday, 17 December 2019. The seminar included a discussion on what the faculty graduates have achieved in the

labor market. They also talked about how the gap between university education and labor market affected their careers and the difficulties they have faced in the working life as well as their suggestions to narrow this gap. All the suggestions were about the need to have a job fair to link the graduates with labor market. At the end of the seminar, the attendees were encouraged to have their specific goal and challenge all difficulties to achieve it. The graduates expressed their admiration for the day and its idea and the need to repeat it again.

<https://www.pua.edu.eg/the-gap-between-university-education-and-labor-market/>

SDG 11 Sustainable Cities and Communities

According to the UN definition, Sustainable cities and communities refers to making cities safe and sustainable means to ensuring access to safe and affordable housing, and upgrading slum settlements. It also involves investment in public transport, creating green public spaces, and improving urban planning and management in a way that is both participatory and inclusive. Several activities in this field was carried out by Pharos University in this field.

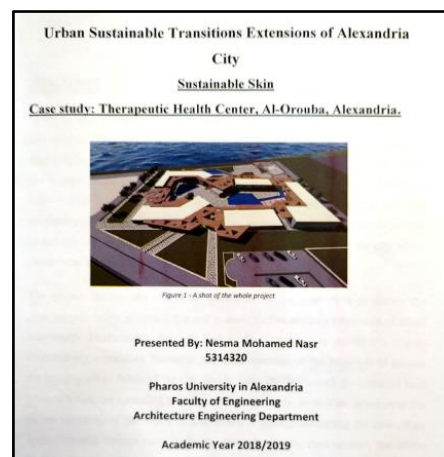
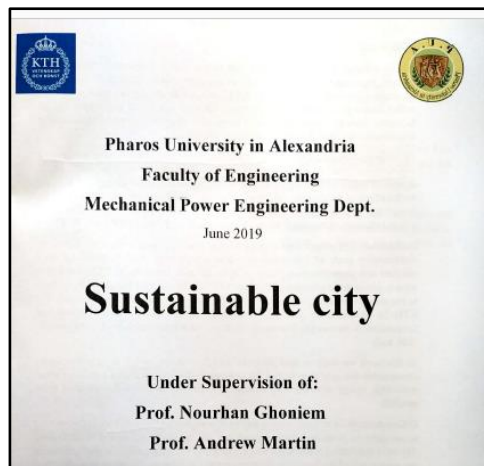
11.1. Conferences

In the coming years new cities will be built in Egypt, urban design will become an important subject for the development of the country. There is no profession more suitable to address the urban form of cities than the architect. The potential of developing sustainable urban form can have a massive impact on living qualities and the reduction of energy needs, if professionally designed. In this Pharos University and Royal Institute of Technology KTH - Sweden KTH organized a four day workshop, guiding students and young teachers to relevant procedures that answer complex questions of urban sustainable cities.

<https://www.pua.edu.eg/an-architectural-task-a-pua-kth-collaboration/>

11.2. Competition

A Strong Competition Among Engineering Students in “Towards Sustainable Tomorrow Competition” The graduation projects of *Faculty of Engineering* organized the above competition for the departments of (Petrochemical, Architectural, Mechanical and Electrical Engineering). Eight projects were selected to compete in the competition of “Towards Sustainable Tomorrow” that was organized by the Faculty of Engineering in the coordination with **Birla Carbon Company**. The company presented three financial awards for the best three projects. The two presented projects from Petrochemical Engineering Department came in the first place among eight graduation projects that were selected to participate in Birla Carbon Company competition. The presented project from Mechanical Engineering Department came in the third place entitled “Sustainable City” received a 7000. The Director of Birla Carbon Company participated in distributing the gifts and certificates.



<https://www.pua.edu.eg/petrochemical-engineering-department-won-the-first-place-in-towards-sustainable-tomorrow-competition/>
<https://www.pua.edu.eg/a-strong-competition-among-engineering-students-in-towards-sustainable-tomorrow-competition/>

11.3. Research Publication

The impact of productive open spaces on urban sustainability: The case of El Mansheya Square – Alexandria

Faragallah, R.N.

(2018) Alexandria Engineering Journal, 57 (4), pp. 3969-3976.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056808010&doi=10.1016%2fj.aej.2018.02.008&partnerID=40&md5=9b> DOI: 10.1016/j.aej.2018.02.008

Abdel Khalek, H.A., Aziz, R.F., Abdeen, A.H.

Identify and prioritize the major influencing causes of automated concrete mixing system for mega construction projects using analytic hierarchy process

(2018) Alexandria Engineering Journal, 57 (4), pp. 3451-3461. Cited 1 time.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056632458&doi=10.1016%2fj.aej.2018.04.003&partnerID=40&md5=bc> DOI: 10.1016/j.aej.2018.04.003

The role of stakeholders as a competitive advantage in the formulation of antiquity museum strategies in Egypt

Elsorady, D.A.

(2018) Museum Management and Curatorship, 33 (4), pp. 365-381.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048741228&doi=10.1080%2f09647775.2018.1488221&partnerID=40& DOI: 10.1080/09647775.2018.1488221](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048741228&doi=10.1080%2f09647775.2018.1488221&partnerID=40&DOI:10.1080/09647775.2018.1488221)

Revitalisation of Downtown Khedive Cairo: A contested sovereignty

Elsorady, D.A.

(2018) Cities, 73, pp. 51-62.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031423417&doi=10.1016%2fj.cities.2017.10.009&partnerID=40&md5=> DOI: 10.1016/j.cities.2017.10.009

Adaptive Reuse Decision Making of a Heritage Building Antoniadis Palace, Egypt

Elsorady, D.A.

(2018) International Journal of Architectural Heritage.

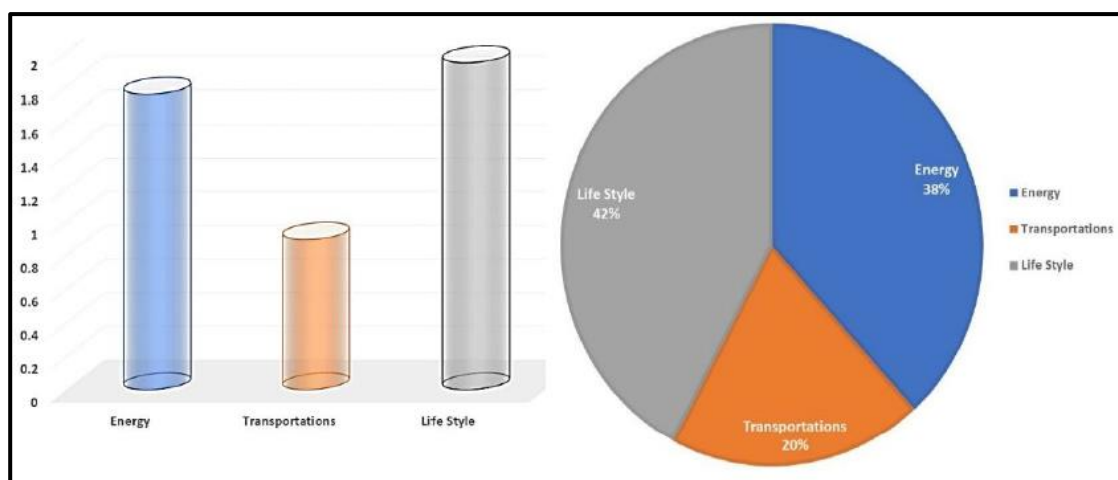
SDG13 Climate Action

With rising greenhouse gas emissions, climate change is occurring at rates much faster than anticipated and its effects are clearly felt worldwide. Increasing greenhouse gas emissions are driving climate change. In 2017, greenhouse gas concentrations reached new highs, with globally averaged mole fractions of CO₂ at 405.5 parts per million (ppm), up from 400.1 ppm in 2015, and at 146 per cent of pre-industrial levels. Moving towards 2030 emission objectives compatible with the 2°C and 1.5°C pathways requires a peak to be achieved as soon as possible, followed by rapid reductions.

13.1 A pilot Project “ Measuring Carbon Footprint”

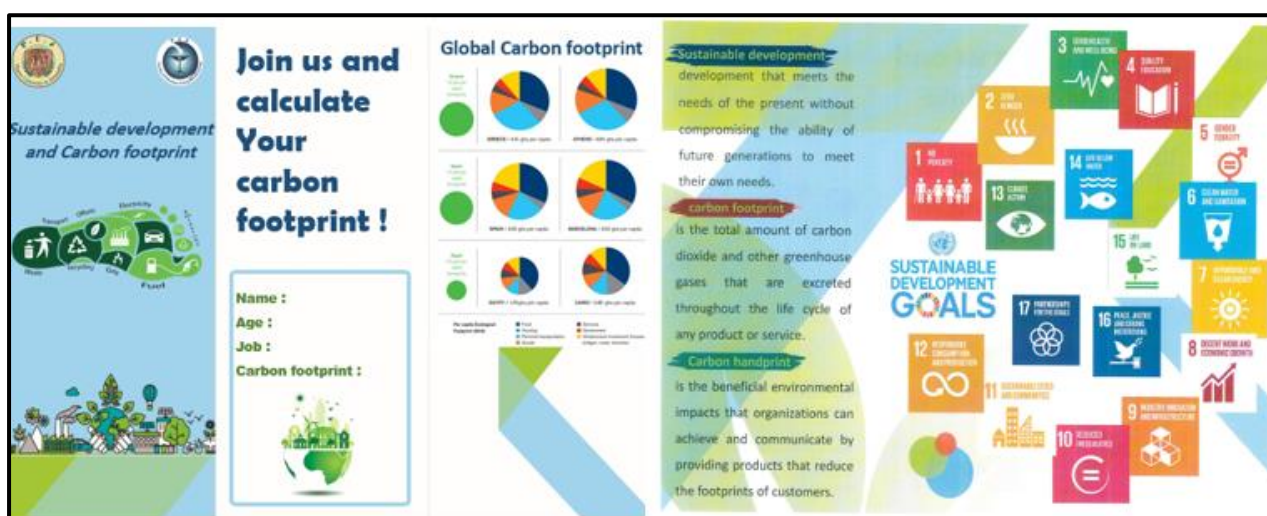
Project Description : The term “carbon footprint” is often used as shorthand for the amount of carbon (usually in tonnes) being emitted by an activity or organization. The carbon footprint is also an important component of the Ecological Footprint, since it is one competing demand for biologically productive space. Carbon emissions from burning fossil fuel 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 tonnes of carbon dioxide emissions are expressed as the amount of productive land area required to sequester those carbon dioxide emissions. This tells us how much biocapacity is necessary to neutralize the emissions from burning fossil fuels.

In this respect, Pharos University started an activity to measure the footprint of the university in the academic year 2018-2019. The Faculty of Pharmacy carried out a project to measure the carbon footprint of Pharos University. This started by spreading the awareness on the idea by seminars, questionnaires and brochures. The team of the project participated in a conference to present their work. About 1107 students took place in this study from them 125 freshmen, 426 sophomore, 169 junior, 103 mid-senior, and 284 seniors. It was found that 85% (940 out of 1107) of student’s carbon footprint were more than the average of Egyptian carbon footprint which equal 2.2. The figure below shows the comparison between different sources of carbon emissions.



<https://www.pua.edu.eg/the-faculty-of-pharmacy-and-drug-manufacturing-held-a-workshop-on-sustainable-development-applications/>

The brochure distributed to students and staff is presented below



The team of this study created an online structured survey to evaluate students' energy consumption styles, behavioral tendencies, and readiness to engage in energy conservation. The project recommended several points. Of which are: Limit car driving and use of group public transportation, biking and walking, and use a fuel-efficient vehicle whenever possible.

SDG 17: Partnership for the goals

Sustainable development is integrated at all levels in universities, including their overall strategy. To a great extent, the achievement of Sustainable Development Goals depends on local regional and international cooperation and partnerships at all levels. It hinges on the ability of countries to work together. The strength of the Egypt 2030 Agenda from a Higher Education perspective sheds light on embedding certain values and practices of sustainability in the main curricula and infuse its concepts. Egypt 2030 Agenda has the chance to rethink the role of higher education institutions and goes a step further by making everyone responsible and calling for collective action.

Pharos University, as the only private university in Alexandria has a multiple role to play in this; in education, research, environmental affairs and community development. Contributions of Pharos University to the implementation of the Sustainable Development Goals (SDGs) as a Higher Education Institute present an impactful combination of researches from authors with collaboration from both developing and developed countries, conferences, and activities that open opportunities and innovations in various disciplines.

17.1. Memoranda of Understanding (MOUs)

Pharos University participates in international collaboration on gathering and measuring data for SDGs. This can only be realized with strong global partnerships and cooperation. Since its start Pharos University is keen to enhance the partnership nationally, regionally and internationally, thus and become more active for contributing to achieving of the Sustainable Development Goals. Several Memoranda of understanding (MONs) has been established. This has been complemented by multi-stakeholder partnerships that mobilize and share knowledge, expertise, technology in medical, humanities and STEM sectors, to

support the achievement of the Sustainable Development Goals locally in the university, and contributing to EGYPT strategy 2030.

The table below (Table 26) shows such partnerships in all types of activities including research, joint projects, joint programs, students' activities and conferences. Also, there has been programmed exchange of visits for staff and students (mobilities) under several EU projects that contribute to all the above activities.

Table 26. International Partnerships (MOUs)

Medical Sector	International Institute	Contributing to SDG
Dentistry	The University of Naples Federico II, Italy 	SDG3
Pharmacy	Aston University, Birmingham, UK 	SDG3
	Kingston University, London, UK 	SDG3
	The University of Naples Federico II, Italy 	SDG3
	Royal Institute of Technology KTH – Sweden 	SD3
Physical Therapy	Goethe' University , Frankfurt, Germany 	SDG3
STEM	Royal Institute of Technology KTH – Sweden 	SDG6, SDG7, SDG11, SDG12, SDG13
	Heilbronn University HHN - Germany 	SDG6, SDG7, SDG11, SDG12, SDG13
	Tomas Bata University (TBU), Czech Republic 	SDG6, SDG7, SDG11, SDG12, SDG13
	University of Alabama in Birmingham, USA  THE UNIVERSITY OF ALABAMA AT BIRMINGHAM	SDG6, SDG7, SDG11, SDG12, SDG13

	Hunan Agriculture University - China		SDG6, SDG7, SDG11, SDG12, SDG13
Humanities (business and entrepreneurship)	JAMK University of Applied Sciences, Finland		SDG8, SDG9
	Technological University Dublin (TU Dublin), Ireland		SDG8
	Heilbronn University HHN - Germany		SDG8
	Tomas Bata University (TBU), Czech Republic		SDG8
Humanities (Law)	Sciences Po Lille - France		SDG16
Humanities (Art and design)	Kingston University, London, UK		SDG11
Humanities (Optometry)	Aston University, Birmingham, UK		SDG3
Humanities (Tourism)	JAMK University of Applied Sciences, Finland		SFG9, SDG11
	Lincoln University College, Malaysia		SDG9, SDG11
	University of Missouri–Kansas City (UMKC), USA		SDG9.SDG11
Humanities (Mass communication)	East Carolina University, USA		SDG17
Humanities (Languages)	The British Council		

	Norwich Institute for Language Education, UK 	
	Universidad De Castilla- La Mancha-Spain 	SDG5, SDG17
	Cambridge- ESOL (English Language Centre (ELC)) 	SDG5, SDG17
	Beijing Languages and Culture University (BLCU), China 	SDG5, SDG17
	Guangdong University of Foreign studies Guangdong University of Foreign studies, China 	SDG5, SDG17
	AMIDEAST 	SDG5, SDG17
	University of Leicester  University of Leicester	SDG5, SDG17

MOUs in Other disciplines

Agence Universitaire Francophonique	
Salamanca University, Spain	
Institute Of International Education (Lotus Program)	
USAID projects	
Aristotle University of Thessaloniki, Greece	

University of Eastern Finland UEF	 UNIVERSITY OF EASTERN FINLAND
University Senghor, Alexandria	 Université Senghor

17.2. International and Regional Collaboration in research

Pharos University in Alexandria (PUA) is deeply involved in research in collaboration with parties at regional (Arab Countries) and international levels to contribute to several SDGs, and measuring data on:

- SDG 3 (Good Health)
- SDG 7 (Affordable and green energy)
- SDG8 (Decent Work and Economic Growth)
- SDG9 (Industry, Innovation)
- SDG 11 (Sustainable Cities and Communities)
- SDG 12 (Responsible Consumption and Production)

Tables 27 Below shows the international and regional collaboration in Research with universities and research institutions and international organizations, while Table 28 shows the regional cooperation in research with universities and research intuitions in the Arab region

Table 27. International Collaboration in Research with Universities, Research Institutions and International Organizations

USA	• Purdue University • Harvard Medical School • Ohio State university • University of South Florida Sarasota • International association for media and communication research
Canada	• AbEx Health Services - Alberta
Australia	• University of Queensland
West Europe	• University of Barcelona – Spain • Accademia di Belle Arti d'Egitto - (Italy)
East Europe	• Faculty of Dentistry – Zagreb, Croatia
Latin America	• University of San Martin de Pores, Lima, Peru • University of Sao Paulo, Brazil
Asia	• Nitte University – India • University of Lahore – Pakistan • Chang Gung University – Taiwan • Koirala Institute & health Services – Nepal • Lincoln University College- Malaysia • Kalasalingam University • (India)

	• Konya university – Turkey • Egypt Japan Friendship Association EJFA (Japan)
South Africa	• University of Western Cape – Cape Town
	• Université de Genève
	• Ludwig -Maximilians - University in Munich
	• The University of Queensland Australia
	• African court for Human Rights
Australia	• University of Kwa Zulu
	• Kingston University
Germany	• Technische universitat Munchen
	• Goethe-Universität Frankfurt am Main
	• Roemer and Pelizaeus Museum Hildesheim
	• Heidelberg University
France	• University of Poitiers
	• University of Marseille
Spain	• University of Bologna
Potugal	• University of Coimbra
Ireland	• Trinity College Dublin
	• Dundalk Institute of Technolgy
International Organization	• And World Health Organization (WHO) • World Tourism Organization UNWTO

Table 28. Regional Cooperation in Research with Universities and Research Intuitions in the Arab Region

Saudi Arabia	• King Abdul Aziz university • Jazan university • King Saud University • Qassim University • Um Al- Qura university • Taibah University • University of Business and technology • Naeif University • Sabaa Saudi Journal • Arab Tourism Organization
Yemen	• Tamar University
Jordan	• University of Science and Technology • Jadara University • Arab Network for Promoting Inter-Tourism • Yarmook University • Al Bostan Real Estate Developmen
Sudan	• University of Khartoum • Al- Gazira University
Iraq	• Al- Qadisiyah University
UAE	• Al- Ain University

Oman	• Sultan Qaboos University
Qatar	• Qatar University
Lebanon	• Beirut Arab University • Saint Joseph University

17.3. Collaboration with local Academic Institutions and Hospitals

Pharos University collaborates in research with almost all Egyptian Universities and research institutions for research (Table 29), and hospitals for internships and training (Table 30)

Table 29. Research Collaboration with Local Universities and Research Institutions

City	Institution name.
Alexandria	• Alexandria University • Egypt- Japan University – Borg El Arab • Research Institute City for Scientific Research and Technology – Borg El Arab • Cancer Research Institute – Alexandria • Alexandria Higher Institute of Engineering and Technology (AIET)
Cairo	• Cairo University • Al Azhar University • Higher Institute of Public Health • Medical research Center • Zewil City University • National Institute of Oceanography and Fishery. • Academy of Scientific Research and Technology • High Institute of Media • Farouk El-Baz Center of Sustainability and Future Studies – The British university • High Institute of Public Health
Damahir	Damahir University
Kafr El Sheikh	Kafr El Sheikh University
Suez Canal	Suez Canal University
Zagazig	Zagazig University
Beni Swief	Beni Swief University
South Valley	South Valley University
Minia	Minia University
Helwan	Helwan university

Table 30 . Cooperation with Local Hospitals

Hospital Name
Armed Forces Hospital- Mustafa Kamel
Naval Forces Hospital
General Military Hospital
Institute of Medical research hospital
Faculty of Medicine Hospital of Alexandria University
America Hospital
Ahmed Maher Hospital
Abou Kir Hospital

Gomhoria Hospital
El Qasr El Ainy Hospital
Dekernis Hospital
Police Hospital
Abou Homous Hospital
Wenget Hospital
El Menshawy Hospital
57375 Hostital
Burg El Arab Hospital
Sahel Teaching Hospital

17.4 Cooperation with Ministers, governmental and Non-Governmental Organizations (NGOs)

Pharos University also collaborates with ministries, governmental agencies, industrial companies and Embassies for fulfilling SDGs (Table 31)
As well as NGOs (Table 32)

Table 31. Collaboration of Pharos University with Ministries, Governmental Agencies, Industrial Companies and Embassies

Institute of Cultural Affairs
Egyptian Petrochemicals
Electricity Company
Alexandria Petroleum Company
Birla Company
Alexandria Company for Fertilizers
Sidpec Petroleum Company
Streritics Company
Sumūd Peroleum Company
Enerpic Company
Ammoc Company
Nile company for sugar
Amerya Peroleum CompanyCompany
Authority of State Court
National authority for Media
Syndicate of Lawyers
Education Directorate – Alexandria Governorate, Ministry of education
Education Directorate – Beheria Governorate, Ministry of education
Health Directorate – Ministry of Health
Egyptian Network for Research Rthics Committees
Spanish embassy/ consulate
American embassy/ consulate
French embassy/ consulate
British embassy/ consulate
Chinese embassy/ consulate

Table 32. Collaboration with Non-Governmental Organization (NGOs)

Naba'a Al Hayat Foundation
Mojeeb Al Salayen Foundation
Al Staqrar Foundation
Kafalat Al Yateem Foundation at Fata neighborhood
Al Qalaa for Community Development.

Eleen ElGaria association
Abdel Kadr Association
Tarek Charity Association (Mustafa Kamel)
Abu Masoud Suburb (Amiria)
Ayadi Mostakbal medical center (NGO)
Omda Development Association (NGO)
Association of community based rehabilitation for disabled children (NGO)
Red Crescent Association (Mohandeseen)
Ahmous center for elderly

17.5 . Cooperation with Private sector

Private sector is an important sector that Pharos university is keen to cooperate with. Below (Table 33) is the list

Table 33 List of Private Sector that Pharos University Cooperate With.

Company name
SPIMACO Misr for Pharmaceutical Industries- Alex Informatics Research Institutes.
Eva Pharma
Innova Pharma
Hygint Pharmaceutical company Ltd.
Goweily Academy
Andalusia Hospital (Private Hospital)
El Yousr Hospital (private Hospital)
Fawzy Moaaz Hospital (Private Hospital)
Carrefour
Easy Care Company
Mena For Touristic and Real Estate Development
Alexandria Company For Pharmaceuticals
Khalil Pharmacies
Seif Pharmacies
SABshire for Pharmaceutical industries
Alexandria Company for Pharmaceutical industries
Pharco Company
ABB Electrical Industries (ABB Arab) S.A.E
Solar Mart
EgyptERA
MERC Biopharma
ABB Electrical Industries (ABB Arab) S.A.E

17.6. Conferences and Workshops

Pharos University has organized several workshops and participated in others via collaborations. Below is a list per discipline.

The Faculty of Pharmacy and Drug Manufacturing

The Faculty of Pharmacy and Drug Manufacturing held a seminar on clinical pharmacy in 57357 Hospital on Tuesday 9/10/2018. The conference stressed on the important role of clinical pharmacist especially in the treatment of cancer and the latest great advances in the treatment of hematological diseases.

<https://www.pua.edu.eg/clinical-pharmacy-in-57357-hospital/>

The faculty of Pharmacy held two workshops, the first one was in 2/10/2018 on “Over The Counter (OTC)” which deals with drug medicine sold directly with no prescription

and consequences. This workshop was in collaboration with El Gewaily Academy. The second workshop was in 9/10 2018 on “Criminal Responsibility as a Result of Mistakes in Pharmaceutical Aspects.

The students Committee of the Faculty of Pharmacy conducted a training session in cooperation with Andalusia Hospital on Emergency Medicine. The training included important emergency issues e.g. first aid, burns, unconsciousness, and ventilation.

The Faculty of Physical Therapy

The Faculty of Physical Therapy participated in the Third International Conference on Development, Innovation, organized by Delta University for Science and Technology <https://www.pua.edu.eg/the-1th-international-conference-of-the-faculty-of-physical-therapy-at-delta-university-for-science-and-technology/>

The faculty of Physical Therapy held a Conference in collaboration with three pharmaceutical companies from the private sector; Eva Pharma, Innova Pharma and Hygint Pharmaceutical company Ltd. The workshop title “Recent Trends in Non-invasive Reshaping Modalities in Body Contouring” – July 2019. The conference was open to public and provided instruments to measure the body index (total mass, fat and muscles), basal metabolic rate, and the blood Hemoglobin and sugar levels. The conference also demonstrated the use of Radio Frequency for stretch tightening, and regeneration of skin and facial derma.

Faculty of Applied Health Sciences Technology

A delegation from the Faculty of Applied Health Sciences Technology participated in the first symposium of Biomedical Sciences and Tumor Markers held at the faculty of Medicine, **Alexandria University** <https://www.pua.edu.eg/pharos-university-participated-in-the-1st-symposium-of-biomedical-sciences-and-tumor-markers-at-alexandria-university/>

The Faculty of legal Studies and International Relations

The Faculty of legal Studies and International Relations organized a workshop on “**Legal and Political Perspectives on Egypt’s Water Security” on the academic year 2018-2019.**

[Conferenceshttps://www.pua.edu.eg/legal-and-political-perspectives-on-egypts-water-security/](https://www.pua.edu.eg/legal-and-political-perspectives-on-egypts-water-security/)

The Faculty of Financial and Administrative

The Faculty of Financial and Administrative Sciences at Pharos University, in collaboration with the TU Dublin, holds the “fifth international conference of Business Innovation and Economic Sustainability Challenges” on April, 2019 in PUA Conference Hall. The Faculty members attended the conference, along with teaching assistants who presented several scientific researches in the conference. It is worth mentioning that the conference witnessed the participation of many researchers from different estimable universities and academic organizations such as:

- TU Dublin in Ireland.
- JAMK University in Finland.
- The German University in Cairo.
- Alexandria University.
- The Faculty of Economics and Political Science- Cairo University.
- The Arab Academy for Science and Technology.
- Alexandria Higher Institute of Engineering and Technology.

<https://www.pua.edu.eg/pharos-university-holds-the-5th-international-conference-of-business-innovation-and-economic-sustainability-challenges/>

The Faculty of Engineering

The Faculty of Engineering in cooperation with the **Royal Institute of Technology (KTH), Stockholm, Sweden** organized the “2nd International Conference on New Trends for Sustainable Energy (ICNTSE)” on 5-7 November 2018

Pharos University and **Royal Institute of Technology KTH - Sweden KTH** organized a four day workshop, guiding students and young teachers to relevant procedures that answer complex questions of urban sustainable cities.

The faculty of Engineering and Royal Institute of Technology KTH - Sweden KTH organized a four day workshop, guiding students and young teachers to relevant procedures that answer complex questions of urban sustainable cities.

<https://www.pua.edu.eg/an-architectural-task-a-pua-kth-collaboration/>

A Strong Competition Among Engineering Students in “Towards Sustainable Tomorrow Competition” was organized by the Faculty of Engineering in the coordination with **Birla Carbon Company**.

<https://www.pua.edu.eg/birla-carbon-competition/>

<http://sustainability.birlacarbon.com/environment/waste.html>

Faculty of Mass Communication

Within the framework of the endeavours of the Faculty of Mass Communication to constantly communicate with its graduates, a seminar entitled “The Gap between University Education and Labor Market” was organized for the faculty alumni on Tuesday, 17 December 2019. The seminar included a discussion on what the faculty graduates have achieved in the labor market. They also talked about how the gap between university education and labor market affected their careers and the difficulties they have faced in the working life as well as their suggestions to narrow this gap. All the suggestions were about the need to have a job fair to link the graduates with labor market. At the end of the seminar, the attendees were encouraged to have their specific goal and challenge all difficulties to achieve it. The graduates expressed their admiration for the day and its idea and the need to repeat it again.

<https://www.pua.edu.eg/the-gap-between-university-education-and-labor-market/>

The career development and entrepreneurship center

The career development and entrepreneurship center of Pharos University participated in the first round-table meeting in cooperation with the French Chamber of Commerce and Industry to for promoting cooperation between academia and business sector. The aim of this meeting is to support innovation and entrepreneurship and encourage spin-offs.

<https://www.pua.edu.eg/a-kth-high-ranking-delegation-in-a-visit-to-pharos-university/>

It is worth mentioning that at Egypt Legal Tech Hackathon 2019; an international competition in legal entrepreneurship. This competition is the first project for the CIPIEE Centre (Centre pour l'Insertion Professionnelle, l'Innovation et l'Entrepreneuriat en Egypte) which is opened in Senghor University.

<https://www.pua.edu.eg/46679/>

Another meeting was held in collaboration with JAMK University of Applied Sciences, hosts the first week of innovation to be held under the title of “JAMK INNOFlash” from 21- 24 April at Pharos University. This was held in the presence of Mr. Mieskolainen Matti, a lecturer at the JAMK University of Applied Sciences. The first week of innovation will be attended by PUA students from different faculties.

<https://www.pua.edu.eg/the-cdec-participated-in-the-ba-round-table-meeting-for-promoting-cooperation-between-academia-and-business-sector/>

17.7. Local, Regional and International Collaboration in Research publications

The Table below, (Table 34) presents the research papers that are published in collaboration with authors from the local, regional and International collaborations. All these publications are listed in SCOPUS database.

Table 34. List of Local, Regional and International Collaboration in Research Publications

Paper	Authors	Affiliations	link	Collaboration		
The combined effects of multisized silver nanoparticles and pulsed magnetic field on K. pneumoniae (2018) Bioinspired, Biomimetic and Nanobiomaterials, 8 (2), pp. 154-160. Cited 2 times.	El-Khatib, A.M., El-Kaliuoby, M.I., Elkhatib, M., Khalil, A.M.	- Faculty of Science, Alexandria University, Alexandria, Egypt - Faculty of Engineering, Pharos University in Alexandria, Alexandria, Egypt - Faculty of Education, Alexandria University, Alexandria, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-5067703100&doi=10.1680%2fjbibn.18.00042&partnerID=40&md5=c9e0 DOI: 10.1680/jbibn.18.00042	√		
Characterization of the apical bridge barrier formed following amelogenin apexification (2018) BMC Oral Health, 18 (1), art. no. 201, .	Mounir, M.M.F., Farsi, J.M.A., Alhazzazi, T.Y., Matar, M.A., El-Housseiny, A.A.	- King Abdulaziz University, Faculty of Dentistry, Department of Diagnostic Oral Sciences, Jeddah, Saudi Arabia - Alexandria University, Department of Oral Biology, Faculty of Dentistry, Alexandria, Egypt - Pharos University, Department of Pediatric Dentistry, Faculty of Dentistry, Alexandria, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057756175&doi=10.1186%2fs12903-018-0641-0&partnerID=40&md5= DOI: 10.1186/s12903-018-0641-0	√	√	
Can miRNA712 3p be a promising biomarker for early diagnosis of toxoplasmosis? (2018) Asian Pacific Journal of Tropical Medicine, 11 (12), pp. 688-692.	Mogahed, N.M.F.H., Khedr, S.I., Ghazala, R.A., Masoud, I.M.	- Medical Parasitology Department, Faculty of Medicine, Alexandria University, Egypt - Medical Biochemistry Department, Faculty of Medicine, Alexandria University, Egypt - Pharmaceutical Chemistry, Faculty of Pharmacy and Drug Manufacturing, Pharos University in Alexandria, Alexandria, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059464077&doi=10.4103%2f1995-7645.248341&partnerID=40&md5= DOI: 10.4103/1995-7645.248341	√		
Elaboration of polymers versus conventional liposomes for improving oral bioavailability of the anticancer flutamide (2018) Nanomedicine, 13 (23), pp. 3025-3036. Cited 1 time.	Youssef, S.F., Elnaggar, Y.S., Abdallah, O.Y.	- Department of Pharmaceutics, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt - Department of Pharmaceutics, Faculty of Pharmacy and Drug Manufacturing, Pharos University in	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058082482&doi=10.2217%2fnnm-2018-0238&partnerID=40&md5=4b1	√		

		Alexandria, Alexandria, Egypt	DOI: 10.2217/nnm-2018-0238			
Effect of batch age on potency and dissolution of levothyroxine sodium tablets: impact of BP and USP monograph differences on dissolution results (2018) Drug Development and Industrial Pharmacy, 44 (11), pp. 1762-1769.	Abou-Taleb, B.A., Nounou, M.I., Khalafallah, N., Khalil, S.	- Department of Pharmaceutics, Faculty of Pharmacy and Drug Manufacturing, Pharos University in Alexandria (PUA), Alexandria, Egypt - Department of Pharmaceutical Sciences, School of Pharmacy (SOP), University of Saint Joseph (USJ), Hartford, United States - Department of Pharmaceutics, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053375495&doi=10.1080%2f03639045.2018.1496446&partnerID=40&DOI:10.1080/03639045.2018.1496446	√		√
Oral Brain-Targeted Microemulsion for Enhanced Piperine Delivery in Alzheimer's Disease Therapy: In Vitro Appraisal, In Vivo Activity, and Nanotoxicity (2018) AAPS PharmSciTech, 19 (8), pp. 3698-3711. Cited 6 times.	Etman, S.M., Elnaggar, Y.S.R., Abdelmonsif, D.A., Abdallah, O.Y.	- Department of Pharmaceutics, Faculty of Pharmacy, Alexandria University, 1 Khartoum Square, Azarita, Messalla Post Office, P.O.Box 21521, Alexandria, Egypt - Department of Pharmaceutics, Faculty of Pharmacy and Drug Manufacturing, Pharos University of Alexandria, Alexandria, Egypt - Department of Medical Biochemistry, Faculty of Medicine, Alexandria University, Alexandria, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053832440&doi=10.1208%2fs12249-018-1180-3&partnerID=40&md5=10.1208/s12249-018-1180-3	√		
Perceived sources of stress amongst dental students: A multicountry study (2018) European Journal of Dental Education, 22 (4), pp. 258-271. Cited 4 times.	Alhajj, M.N., Khader, Y., Murad, A.H., Celebic, A., Halboub, E., Márquez, J.R., Macizo, C.C., Khan, S., Basnet, B.B., Makzoumé, J.E., de Sousa-Neto, M.D., Camargo, R., Prasad, D.A., Faheemuddin, M., Mir, S., Elkholy, S., Abdullah, A.G., Ibrahim, A.A., Al-Anesi, M.S., Al-Basmi, A.A.	- Department of Prosthodontics, Faculty of Dentistry, Thamar University, Dhamar, Yemen - Department of Community Medicine, Public Health and Family Medicine, Faculty of Medicine, Jordan University of Science and Technology, Irbid, Jordan - Department of Oral Diagnosis, College of Dentistry, Al-Qadisiyah University, Al-Diwaniya, Iraq - Department of Removable Prosthodontics, Faculty of Dentistry, University of Zagreb, Zagreb, Croatia - Division of Oral Medicine, Department of Maxillofacial Surgery and Diagnostic Sciences, College of Dentistry, Jazan University, Jazan, Saudi Arabia - Department of Oral Rehabilitation, Faculty of Dentistry, University of San Martín de Porres, Lima, Peru - Department of Restorative Dentistry, Faculty of	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044677253&doi=10.1111%2feje.12350&partnerID=40&md5=7dbbf46510.1111/eje.12350	√	√	√

		Dentistry, University of the Western Cape, Cape Town, South Africa • Department of Prosthodontics and Crown-Bridge, College of Dental Surgery, BP Koirala Institute of Health Sciences, Dharan, Nepal • Department of Removable Prosthodontics, Faculty of Dentistry, Saint-Joseph University of Beirut, Beirut, Lebanon • Department of Restorative Dentistry, School of Dentistry of Ribeirão Preto, University of São Paulo, Sao Paulo, Brazil • Department of Prosthodontics and Crown-Bridge, A.B. Shetty Memorial Institute of Dental Sciences, Nitte University, Mangalore, India • Department of Prosthodontics, University College of Medicine and Dentistry, University of Lahore, Punjab, Pakistan • Private Dental Clinic, Punjab, Pakistan • Department of Implants and Removable Prosthodontics, Faculty of Dentistry, Pharos University in Alexandria, Alexandria, Egypt • Department of Basic Sciences, Faculty of Dentistry, University of Khartoum, Khartoum, Sudan • Department of Prosthodontics, Faculty of Dentistry, Al-Gazira University, Wad Medani, Sudan • Conservative Department, Faculty of Dentistry, Tamar University, Dhamar, Yemen • Private Dental Clinic, Dhamar, Yemen			
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Inhalable multi-compartmental phospholipid enveloped lipid core nanocomposites for	Kabary, D.M., Helmy, M.W., Abdelfattah, E.-Z.A., Fang, J.-Y.,	• (CNRL), Faculty of Pharmacy, Alexandria University, Alexandria, 21521, Egypt • Department of Industrial Pharmacy, Faculty of	https://www.scopus.com/inward/record.uri?eid=2-s2.0-	√	

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A Novel Secure Signaling Technique for Underwater Communication Channels Based on Differential Frequency Hopping and Spinal	El-Khamy, S.E., Elfar, S.H., Rizk, M.R.M.	• Dept. of Electrical Engineering, Faculty of Engineering, Alexandria University, Alexandria, 21544, Egypt	https://www.scopus.com/inward/record.uri?eid=2-s2.0-	√		

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Appendix 1

Registered Students in the First Academic (freshmen) per Year- 2006-2018				
Year	Males	Females	Total	Males to Females Ratio
2006-2007	335	323	658	1 : 0.96
2007-2018	488	407	895	1 : 0.83
2008- 2019	532	507	1039	1 : 0.95
2009-2010	555	540	1095	1 : 0.97
2010-2011	235	164	399	1 : 0.70
2011-2012	676	809	1485	1 : 1.20
2012-2013	860	901	1761	1 : 1.04
2013- 2014	928	979	1907	1 : 1.05
2014-2015	1085	1300	2385	1 : 1.20
2015-2016	1181	1392	2573	1 : 1.17
2016-2017	1359	1458	2817	1 : 1.07
2017-2018	1505	1550	3055	1 : 1.03
2018-2019	1487	1507	2994	1 :01