



THE Impact Ranking SDG17 Report

SDG

17
Partnerships for
the goals





SDG 17 Partnerships For the Goals

Sustainable development is the responsibility of every part of society, across the world. It cannot be achieved without linkages, across the goals, but also between institutions, governments, companies, NGOs, and people.

National cooperation for implementation of SDGs

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

Alexandria Governorate	Conferences and meetings
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
Ministry of Health	COVID Vaccination
Arab Organization for Industrialization	Scientific research and training
Red crescent and blood bank	Students Projects
Alexandria Mineral Oils Company (AMOC)	Partnership
Petroleum Products Company (ASPPC)	Partnership and training



Below is the 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)	Community service projects
Tarek ElKhair	Community service projects
Al mutadarieun	Community service projects
El Qalaa	Community service projects
Kfalet El Yatem	Community service projects
Nabaa El Hop	Community service projects
El Estqrar	Community service projects
Birla Carbon Egypt	Student research project



Cooperation with the Private sector

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

Company name	Type of cooperation
El Yousr Hospital (private Hospital)	Students Projects
Fawzy Moaaz Hospital (Private Hospital)	Students Projects
Carrefour	Partnership
Easy Care Company	Partnership
Mena For Touristic and Real Estate Development	Partnership
IdeaSpace	Student training
Capital Professional Development	Student training
the Industrial Modernization Centre (IMC)	Partnership and training

Cooperation For SDG 1

PUA celebrated Orphans Day with charity NGOs

PUA celebrated Orphans Day. The coordination was made between the Community Services and Environment Development Affairs and six charities NGOs:

- “Tarek ElKhair” Community Service, Sidi Gaber.
- “Al mutadarieun” Community Service, Rabaa El Nasria, Abis.
- “El Qalaa” Community Service, Awayed.
- “Kfalet El Yatem” Community Service, Ezbet Fathi.
- Nabaa El Hop” Community Service, El Hadra El Gadida.
- “El Estqrar” Community Service, Zawya Abd El-Qader, Al Amaria.



The ceremony was held at those charities. On 9th and 10th of April 2021, PUA formed six groups comprised of students, faculty members and coordinators of the student activities to visit those charities and give the orphans toys, gifts and clothes that had a good impact on children and staff. This activity is a part of the university's keenness to activate its role in developing the spiritual, moral and loyalty values of students as well as participating in community service.

Cooperation for SDG 3

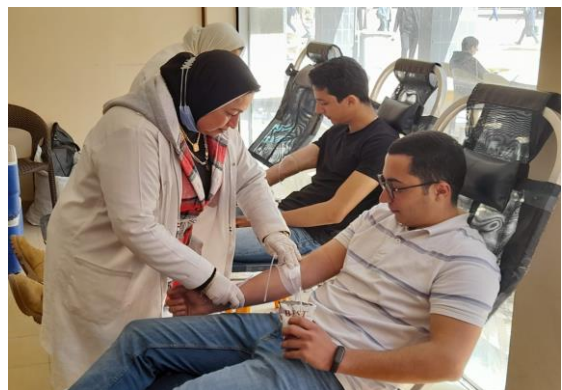
Pharos University Center for COVID-19 Vaccine

مركز فاروس للتطعيم ضد فيروس كورونا – سارع بالتسجيل للتطعيم
في إطار تنفيذ توجيهات السيد/ رئيس الجمهورية بتطعيم جميع أعضاء هيئة التدريس والعاملين والطلاب
بالمجتمع الجامعي يقوم السادة/ أعضاء هيئة التدريس والعاملين وطلاب الجامعة الذين لم يتلقوا اللقاح
بالتسجيل على موقع التسجيل الخاص بتلقي لقاح فيروس كورونا المستجد
حيث انه لن يتم السماح للذين لم يتلقوا اللقاح بدخول الجامعة

URL: <https://www.pua.edu.eg/%d8%a7%d8%b9%d9%84%d8%a7%d9%86-%d9%87%d8%a7%d9%85-%d8%a8%d8%ae%d8%b5%d9%88%d8%b5-%d9%84%d9%82%d8%a7%d8%ad-%d9%81%d9%8a%d8%b1%d9%88%d8%b3-%d9%83%d9%88%d8%b1%d9%88%d9%86%d8%a7-2/>
[HTTPS://WWW.EGCOVAC.MOHP.GOV.EG](https://www.egcovac.mohp.gov.eg)

The Faculty of Arts and Media Blood Donation Campaign

The Faculty of Arts and Media in collaboration with the Faculties of Legal Studies, Engineering, Pharmacy and Dentistry organized a blood donation campaign on Tuesday, March 15th, 2022. The event was organized within the framework of PUA's participation in community service activities. The event started at 11 am with the arrival of a blood donation vehicle from the Blood Bank. The campaign was met with an overwhelming turnout of students, while the faculties cooperated in organization and motivation of the students.



URL: <https://www.pua.edu.eg/%d9%83%d9%84%d9%8a%d8%a9-%d8%a7%d9%84%d9%81%d9%86%d9%88%d9%86-%d9%88%d8%a7%d9%84%d8%aa%d8%b5%d9%85%d9%8a%d9%85-%d8%aa%d9%86%d8%b8%d9%85-%d8%ad%d9%85%d9%84%d8%a9-%d9%84%d9%84%d8%aa%d8%a8%d8%b1%d8%b9/>

Cooperation with the Ministry of Health in the vaccination to combat Covid 19



The Egyptian government has made COVID-19 vaccination compulsory for students above the age of 18, faculty staff and other workers at both public and private universities. Egyptian-made Chinese Sinovac shots will be supplied to vaccination centers at university hospitals to vaccinate university workers, students and higher education staff before the beginning of the next academic year, in October. Each institute and research centre will also establish its own vaccination clinic.

Vaccination activities in Pharos University

Pharos University has put a plan for vaccination against Covid 19 of students and staff members, as well as the community nearby the university premises.

The plan started on September 2nd 2021, where 2500 doses of Sinovac were received associated with special 0,5 cc sterile syringes. Each dose received is enough for two persons which makes these amounts sufficient to vaccinate 5000 persons.

The target number of persons to be vaccinated at the university for the local community is 14500 during the whole month of September with average daily dosages of about 232 recipients.

The vaccination work was extended till the middle of October to meet the targeted number and receiving more doses of vaccine that would be sufficient for all.

Vaccinating all members of the university community would improve the chances for a return to face-to-face educational activities. However, returning to in-person education should not mean heading back to a hybrid education system. A new system “should continue on building” digital education, while adding the benefits of face-to-face activities



Waiting
Hall



Reporting
and check
ups



Vaccination





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
International cardiac center ICC	Training anf Internships
General Military Hospital	Internships
Faculty of Medicine Hospital of Alexandria University	Training and research
Andlusia Hospital	Training
NAPHS	Online Training
57375 Hospital	Students activities

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Cooperation for SDG4

PUA signed a cooperation protocol with IdeaSpace for students training.

In implementation of its field training plan, PUA signed a cooperation protocol with IdeaSpace Company, which represents the “Egypt Makes Electronics” initiative (EME) of the Information the Information Technology Industry Development Agency (ITIDA) to train PUA’s students.



<https://www.pua.edu.eg/pua-and-ideaspac-sign-a-cooperation-protocol/>

Pharos university participates in “Egypt Make Electronics” initiative (EME)

In recognition of the Faculty Applied Health Sciences Technology and the Department of Biomedical Equipment Technology of the necessity of developing education through linking the academic activities with the Egyptian industrial initiatives.

Based on coordination made by Asst. Prof. Dr. Mohamed Ismail Badawy, Head of the Department of Biomedical Devices Technology; *and*

In response to the invitation extended by “Egypt Make Electronics” initiative (EME), which is funded by the Information Technology Industry Development Agency (ITEDA), of the Ministry of Communications,

17 Department students along with five faculty members and teaching assistants visited EME’s Innovation Hub-Borg Al Arab. The visit aimed to identify the possibilities available, and to open horizons for the Department students to implement their graduation projects.

As a result, the students learned about the initiative’s capabilities and its advanced laboratories, such as printed circuit laboratories, manufacturing laboratories, artificial intelligence laboratories, and Internet of Things laboratories.



<https://www.pua.edu.eg/education-development/>

A visit to Ayady ElMostakbal Foundation

Ayady ElMostakbal is NGO aiming at helping Children diagnosed with cancer, Pharos university is in active partnership with the organization and support their activities via donations and other means of cooperation.



<https://www.pua.edu.eg/a-visit-to-ayadi-el-mostakbal-oncology-hospital/>

PUA's International Relations Department in cooperation with the Confucius Institute in Cairo, announces that registration for the Chinese Language Course (October 2022 session) is now open.

Registration is open from Tuesday, September 20, 2022 until Monday, October 17, 2022. The course will start on October 22, 2022, and lectures will be held online.

To register for the course, please visit the International Relations Department (Administration Building – 3rd floor, from 9:30 am to 1:30 pm).

<https://www.pua.edu.eg/announcement-of-confucius/>

Field Visit to the Alexandria Petroleum Company

The Mechanical Engineering Department organized a field visit to the Alexandria Petroleum Company for 40 of its students from different academic levels for one full day. The students were accompanied with a number of Department professors.

At the beginning, the company lectured the students about the company's activities, stages of separating petroleum and distilling it into its various constituents. As well as the mechanical devices and equipment used to raise pressure, heating, evaporation, and distillation towers.

After that, engineers from the company took the students on a field tour to see what was demonstrated on the ground. It is worth noting that the company's training and human development officials commended the students' passion and interest in the practical side. As well as their good behavior and commitment during the visit.



<https://www.pua.edu.eg/field-visit-to-the-alexandria-petroleum-company/>

PUA and IdeaSpace Sign a Cooperation Protocol

In implementation of its field training plan, PUA signed a cooperation protocol with IdeaSpace Company, which represents the “Egypt Makes Electronics” initiative (EME) of the Information the Information Technology Industry Development Agency (ITIDA) to train PUA’s students.

This event was attended by:

- Dr. Ramadan Abu El-Ala, Vice President for Community Service and Environment Development Affairs.
- Ahmed Mohamed Hassan, CEO of IdeaSpace and EME Project Manager in Alexandria and Assiut.
- Prof. Dr. Mohamed Ismail Badawy, Head of Department of Biomedical Equipment Technology.
- Eng. Abdullah Assem, Director of Training Programs.



<https://www.pua.edu.eg/pua-and-ideaspace-sign-a-cooperation-protocol/>

Décor Outstanding Students Visit Halomy Furniture Factory

The Faculty of Arts and Design organized for the outstanding students enrolled in different levels in the Décor Department a scientific visit to the Halomy Furniture Factory. Eng. Muhammad Shawqi, from the factory management, received, accompanied, and introduced the students to the stages of raw materials production and manufacturing, the latest materials, and modern production lines.

He also gave them a thorough explanation on CNC machines, furniture laser engraving, how to operate them, and displayed many of the previously-made models. Then the students along with the faculty members took an inspection tour inside the factory and the annexed exhibition.

This visit aimed at promoting the academic and practical levels of the students of the Décor Department. It also links their theoretical studies with reality. At the end of the visit, the students thanked the factory management for the warm reception and the valuable information presented during the visit. They also asked the accompanying faculty members to organize similar visits.

However, this visit was accompanied by Prof. Dr. Hanan Sobhy, Professor and Head of the Décor, Asst. Prof. Dr. Mohamed Eid, Assistant Professor of Décor Department, Dr. Salma Youssef, Décor Department Lecturer, and Dr. Aya Fathy, Décor Department Lecturer.



<https://www.pua.edu.eg/%d8%b2%d9%8a%d8%a7%d8%b1%d8%a9-%d8%b9%d9%84%d9%85%d9%8a%d8%a9-%d9%84%d9%84%d8%b7%d9%84%d8%a7%d8%a8-%d8%a7%d9%84%d9%85%d8%aa%d9%81%d9%88%d9%82%d9%8a%d9%86-%d8%a8%d9%82%d8%b3%d9%85-%d8%a7%d9%84%d8%af/>



A Scientific Visit to the Media Students

The Faculty of Arts and Design organized a scientific trip to a recording studio in Cairo for the 2nd and 3rd year Media students in implementation of the practical part of the sound design course. Further, the trip was supervised by of Eng. Sherif Nour, course lecturer and delegated expert, Media Department, and Dr. Ismail Mohamed Al-Nazir, delegated lecturer, Media Department. This trip gave the students a chance to learn about the different tools of sound recording, and how to build a recording studio. In addition, the students had a practical training through recording a scenario. They recorded and edited the audio tape recorded in the studio, and were introduced to the technique of recording the sound of different musical instruments in the recording room.



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

Education Development

In recognition of the Faculty Applied Health Sciences Technology and the Department of Biomedical Equipment Technology of the necessity of developing education through linking the academic activities with the Egyptian industrial initiatives;

In pursuance of PUA's Administration's directives, and under the auspices of Prof. Dr. Ezzat Hassan, Dean of the Faculty and Prof. Dr. Hamdy Al-Wakil, Vice Dean for Education and Student Affairs;

Based on coordination made by Asst. Prof. Dr. Mohamed Ismail Badawy, Head of the Department of Biomedical Devices Technology; *and*

In response to the invitation extended by "Egypt Make Electronics" initiative (EME), which is funded by the Information Technology Industry Development Agency (ITEDA), of the Ministry of Communications,

17 Department students along with five faculty members and teaching assistants visited EME's Innovation Hub-Borg Al Arab. The visit aimed to identify the possibilities available, and to open horizons for the Department students to implement their graduation projects.

As a result, the students learned about the initiative's capabilities and its advanced laboratories, such as printed circuit laboratories, manufacturing laboratories, artificial intelligence laboratories, and Internet of Things laboratories.



<https://www.pua.edu.eg/education-development/>

PUA Visits the Royal Institute of Technology in Sweden

In light of the academic partnership and dual degree programs between Pharos University in Alexandria (PUA) and the Royal Institute of Technology in Sweden (KTH), a high-ranking delegation from the Faculty of Engineering and the International Relations Department visited KTH in May 2022. This delegation included Prof. Dr. Mohamed Gaber Abou Ali, Dean of the Faculty of Engineering, Prof. Dr. Mohamed Naim, Vice Dean, heads of departments, along with officials of international relations from the University and Faculty. This visit received great attention from the Swedish side, as the delegation was welcomed by Prof. Dr. Albania Nissan, director of the joint cooperation project between the two universities, and KTH's corresponding programs officials.



Furthermore, a series of important meetings were held with many representatives from KTH to get a closer look at its capabilities and modern systems. This was followed by a meeting with Prof. Dr. Jan Gulikssen, KTH's Vice-Chancellor, who emphasized the depth of the academic relationship between PUA and KTH that began 12 years ago. He also stressed his aspiration for the continuation and growth of the academic and research cooperation.

On the sidelines of the visit, the Egyptian delegation welcomed the invitation of His Excellency Mr. Ambassador/ Ahmed Adel Sobhi, Egypt's Ambassador to the Kingdom

of Sweden. He expressed his delight with the development of the KTH-PUA relationship. He also stressed his readiness to provide full support to the students wishing to participate in student exchange and academic programs in Sweden. At the end of the visit, the delegation presented the PUA's shield as a souvenir to the KTH's vice president and the Egyptian Ambassador.

The visit comes within the framework of PUA's policy that aims at strengthening its relations with international universities in order to transfer the latest sciences, knowledge and expertise in education. Accordingly, this guarantees excellence to its graduates and enables them to compete successfully in the local and international labor market. PUA's Faculty of Engineering, however; includes 6 joint undergraduate programs with KTH in different departments. In this way, its graduates receive two degrees, one from PUA that is accredited by the Supreme Council of Egyptian Universities, while the other is from KTH in Sweden.



<https://www.pua.edu.eg/pua-visits-the-royal-institute-of-technology-in-sweden/>

PUA's Media Students Visit Al-Masry Al-Youm Foundation

In the context of its keenness of link the educational process within the Faculty with the practical aspect on the ground, through introducing to and training students in the major media institutions, hence qualifying them for the media labor market, the Faculty of Media and Communication Arts organized a field visit for 1st year students to Al-Masry Al-Youm Foundation in Cairo, on Thursday, March 24, 2022. The visit aimed at updating the student with the significant developments in digital transformation in the field of journalism.



The visit began with the students touring the various departments of the Al-Masry Al-Youm Foundation, and talking with journalists about the nature of work in the field of modern digital publishing, requirements for a successful journalist. This was followed by a visit to the editing hall, which included a large number of journalist from different departments such as accidents, sports, arts, multimedia, design, social media management, advertising, press disk, language proofreading, and press studio.

Furthermore, the students showed great interaction and interest in the visit which was supervised by of Dr. Majid Al-Manzalawi, Lecturer in the Journalism Department, Ms. Noha Youssef, and Ms. Noha Al-Lamsi, two teaching assistants in the Faculty.



<https://www.pua.edu.eg/puas-media-students-visit-al-masry-al-youm-foundation/>

PUA's Faculty of Engineering Sign a Cooperation Protocol with TÜV AUSTRIA

In the context of supporting the academic study of the Faculty students, providing them with practical and field experiences, and linking the curricula with industrial fields to achieve the sought integration, Prof. Dr. Mohamed Gaber Abou Ali, Dean of the Faculty of Engineering along with a group of the Faculty professors welcomed Mr. Osama El-Sayed Ibrahim, Regional Director of TÜV AUSTRIA, on Wednesday, January 26, 2022. The meeting included the signing of a cooperation protocol between PUA's Faculty of Engineering and TÜV Austria.



In addition, during this meeting, aspects of cooperation between the two parties were tackled. These aspects included providing training opportunities and specialized workshops for the Faculty students, providing experienced staff to supervise the students' research and projects at the Faculty, which would provide solutions to some of the industry's problems. In a similar context, the Faculty organizes training programs, workshops, conferences and seminars for the company's employees. It also provides academic consultations in light of the experience of its professors to solve some of the company's problems, which requires conducting research and studies in this regard.



<https://www.pua.edu.eg/puas-faculty-of-engineering-sign-a-cooperation-protocol-with-tuv-austria/>

Pharos University participates in the events of the second edition of Global Forum

of Higher Education and Scientific Research and the events of the fourteenth edition of Islamic World Educational Scientific and Cultural Organization (ICESCO)

With the reference to the keen of Pharos University in participating in the events of the second edition of the Global forum of Higher Education and Scientific Researches and the events of the fourteenth edition of the Islamic World Educational Scientific and Cultural Organization (ICESCO) that was held on December 8th 2021 till December 10th 2021



at Al-Masa hotel in the new administrative capital, under the patronage of his Excellency President/ Abd Al-Fattah Al-Sisi president of the republic, with the presence of Prof./ Mustafa Madboly the prime minister, Prof./ Khaled Abd Al-Ghafar minister of higher education and scientific researches, and Prof./ Salam Bin Mohammed Al-Malak – general manager of the



Islamic World Educational Scientific and Cultural Organization and number of ministers Egyptian and foreigner ambassadors, Prof. Dr. Mahmoud Mohyeldin – President of the University commissioned the student / Youssef Kamal – President of the Student Union at the Faculty of Dentistry to participate in the working team organizing the forum, which included 20 male and female students from various



Egyptian universities under the supervision of the Leadership Development Center in Helwan headed by Dr. / Karim Hammam, where the organizing students were



trained in the center from Sunday, December 5th 2021 until Friday, December 10th 2021. It was presented by his Excellency Sherif Yehia, ambassador of the Arab Republic of Egypt to Finland. On Monday, December 6th 2021, the organizing team organized the activities of the “International Volunteer Day” held at the institute for Leadership Development, in the presence of Mr. Amr Othman – Assistant Minister of Social Solidarity, within the training program of the Global Forum for Higher Education and Scientific Research.





<https://www.pua.edu.eg/pharos-university-participates-in-the-events-of-the-second-edition-of-global-forum-of-higher-education-and-scientific-researches-and-the-events-of-the-fourteenth-edition-of-islamic-world-educational-s/>



A Partnership between Pharos University in Alexandria (PUA), Egypt and TOI-OHOMAI Institute of Technology, New Zealand

Pharos University in Alexandria (PUA), Egypt, and TOI- OHOMAI Institute of Technology, New Zealand, have signed a Memorandum of Understanding intending to create a purposeful partnership and mutually beneficial cooperation in the fields of education, exchange of knowledge and collaborative research. The collaboration between both institutions is in various areas including Business Management, Hospitality and Tourism, and Information Technology.

TOI- OHOMAI Institute of Technology is a subsidiary of Te Pūkenga, New Zealand's largest tertiary education provider, with more than 12,000 students studying across various campuses in Rotorua, Taupō, Tauranga, Tokoroa and Whakatāne. PUA is the first private university in the North of Egypt located in the heart of the Mediterranean city of Alexandria. PUA's modern campus stretches over 50 acres to serve more than 15000 students across twelve faculties.

The relationship between PUA and TOI- OHOMAI started through the Chef Apprenticeship Project (CAP). A program that is developed by the Faculty of Tourism and Hotel Management at PUA, with a particular focus on young students who aspire to have culinary training and real-world hospitality industry experience. During Spring Semester 2021, the Faculty of Tourism and Hotel Management invited a distinguished Culinary Arts tutor from TOI- OHOMAI, Chef





Noel Remacle, to provide level three and four students with hands-on experience to advance their culinary talents. Later, the PUA International Relations Office and the leadership team from the Faculty of Tourism and Hotel Management held several meetings, endorsed by the President of PUA, Professor Mahmoud Mohy El-Din, with Professor Peter Richardson Head of International at TOI-OHOMAI Institute of Technology. During the meetings, plans were successfully set for a formal partnership between PUA and TOI- OHOMAI Institute of Technology, New Zealand.



Professor Mahmoud Mohy El-Din, PUA President, expressed his sincere delight with the agreement stating, "I warmly welcome this agreement, we truly cherish our partnership with TOI-OHOMAI Institute of



Technology and value the rich history of Te Pūkenga in innovation, vocational education, and research". Dr. Mohamed AF Ragab, PUA Secretary General, added, "This agreement with TOI- OHOMAI will contribute and reinforce PUA's strong global ties by further collaboration in education and research". We are very excited to extend our relationship with TOI- OHOMAI, New Zealand", added Dr Mennatallah Gowayed, Head of International Relations Office, at PUA. "This agreement expands PUA's network and partnership with many prestigious institutions worldwide and widen our university's successful internationalization strategy. I would like to sincerely thank Chief Executive Officer, Dr Leon de Wet Fourie for his great effort in moving this agreement forward."

From TOI- OHOMAI side, Chief Executive Leon Fourie emphasized that such partnerships enable knowledge sharing and foster valuable industry connections, adding "It provides students with the opportunity to learn from others while developing diverse employability skills and capabilities." Toi Ohomai Head of International Peter Richardson added that the benefits of the agreement include sharing resources and knowledge, brand recognition overseas, and joint research opportunities.



<https://www.pua.edu.eg/a-partnership-between-pharos-university-in-alexandria-pua-egypt-and-toi-ohomai-institute-of-technology-new-zealand/>



List of governmental and Private Companies that cooperated with Pharos University for students' training and internships.

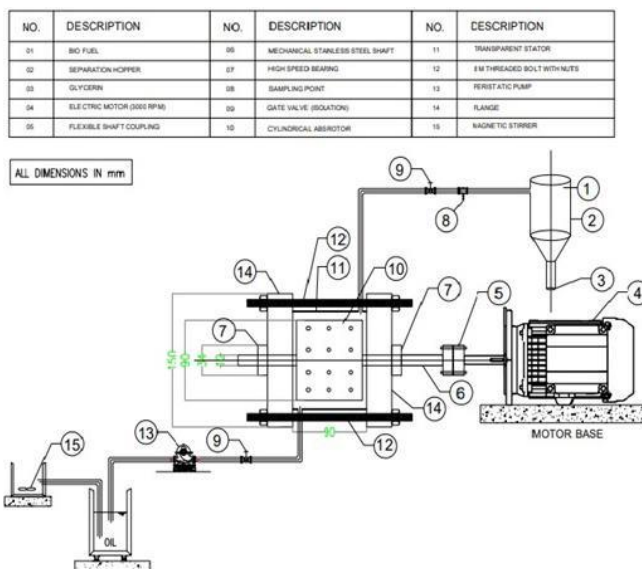
Egyptian Projects Operation & Maintenance EPROM	Faculty of Engineering
Alexnadia company for electricity	Faculty of Engineering
Egyptian Ethylene and Derivatives Company (ETHYDCO)	Faculty of Engineering
Mosahamet El Behera	Faculty of Engineering
ETM. Agricultural Service	Faculty of Engineering
SEDIkirl for petrochemicals SEDPEC	Faculty of Engineering
WE, ELmasryaa for communications	Faculty of Engineering
Arab African company	Faculty of Engineering
XYPEX	Faculty of Engineering
RUNPeoff LLC	Faculty of Engineering
DI GI print	Art and designs
Alex Apparels	Art and designs
Monarch Materials	Art and designs
Attorneys syndicate	Legal Studies and international cooperation
Elzahraa language school	Languages and translations
Capital professional development	Languages and translations
HSH Education company	Languages and translations
EG Bank	Financial and administrative science
Knowledge officer company	Financial and administrative science

Cooperation for SDG7

Production of Biojet fuel a project in line with the sustainable development goals and Egypt 2030.

The Petrochemicals Department at the Faculty of Engineering carried out a study aiming at designing a reactor to produce biofuel using hydrodynamic cavitation technique. This technique is based on intensifying the rate of the reaction and the production of biofuels from non-edible oil by introducing bubbles to the liquid. A model was constructed to explain this process and validate it using experimental data. The reactor has already been implemented successfully and experiments have been conducted to test its effectiveness. This clean biofuel is considered as an alternative to fossil fuel used in industry, in aviation in addition to avoiding the negative impacts of fossil fuel combustion.

The production of an alternate source such as bio jet fuel can be a viable sustainable option, based on non-edible oils, and in line with the sustainable development goals and Egypt 2030. The development of bio jet fuel from renewable sources would not only reduce the reliance on fossil fuels, but also can potentially reduce CO₂ emissions by up to 68.1% in 2050. Hydrodynamic cavitation can be effectively used for the intensification of interesterification reaction for the synthesis of bio jet fuel and glycerol.



Cooperation for SDG 8

Protocol on Cooperation Between PUA and Alexandria Mineral Oils Company (AMOC)

A prestigious delegation from Alexandria Mineral Oils Company (AMOC) headed by Chem. Ehab Ahmed Abdul Halim, Chairman and Managing Director, visited PUA on early Monday 07/02/2022. It included Mrs. Hala Wagih, Assistant Director for Training and Human Resources Development, Mrs. Rania Al Maleki, Director-General for Media and External Affairs, Eng. Mohammad Abdul Razaq, Director-General of the Public Administration for Chemical Labs, along with other leading staff members. The delegation was welcomed in PUA's Grand Hall by Prof. Dr. Ramadan Abu Al Ella, Vice-president for Community Services and Environment Development, Prof. Dr. Mohamed Gaber Abou Ali, Dean of the Faculty of Engineering, Prof. Dr. Gamal Behiry, Dean of the Faculty of Computer Science and Artificial Intelligence, Prof. Dr. Mohammad Yahia Al Mekki, Faculty of Engineering, as well as other faculty members of the Faculty of Engineering.



Both Parties have tackled the prospects of mutual cooperation in training fields, and participation in solving the technical issues, to which PUA can contribute in finding practical solutions. Accordingly, both parties have agreed on making optimal use of their respective capabilities in a manner compliant with the state's strategy in terms of connecting industrial institutions and productions sites, with the Egyptian Scientific and Academic Institutions to achieve the developmental objectives of the Egyptian society. To achieve that, a protocol on cooperation has been signed by Prof.



Dr. Ramadan Abu Al Ella, as PUA's Vice-president for Community Services and Environment Development and Chem. Ehab Ahmed Abdul Halim, as Chairman and Managing Director of Alexandria Mineral Oils Company (AMOC).



<https://www.pua.edu.eg/protocol-on-cooperation-between-pua-and-alexandria-mineral-oils-company-amoc/>

Faculty of Applied Health Sciences Technology's job fair

The Faculty of Applied Health Sciences Technology organized a job fair on Tuesday, March 15th, 2022 from 12:30 pm to 03:00 pm in the student theatre. PUA was keen on hosting this fair to familiarize the students with the various fields of the job market, find real job and training opportunities by applying for their CVs.

The event was launched by Prof. Dr. Mahmoud Mohy El Din, PUA's President, Prof. Dr. Ramadan Abu El-Ala, Vice President of Community Service & Environment Development Affairs, and Prof. Dr. Ezzat Hassan, Dean of the Faculty of Applied Health Sciences Technology. 23 different companies representing various medical appliances and equipment companies, laboratories and hospitals participated in the fair. Consequently, the fair achieved major success due to its high-level of organization and high turnout of Faculty students, faculty members and teaching assistants.



<https://www.pua.edu.eg/%d9%85%d9%84%d8%aa%d9%82%d9%89-%d8%a7%d9%84%d8%aa%d9%88%d8%b8%d9%8a%d9%81-%d8%a8%d9%83%d9%84%d9%8a%d8%a9-%d8%aa%d9%83%d9%86%d9%88%d9%84%d9%88%d8%ac%d9%8a%d8%a7-%d8%a7%d9%84%d8%b9%d9%84%d9%88%d9%85/>

Faculty of Languages and Translation's 1st Job Fair

The Faculty of Languages and Translation organized its 1st job fair in coordination with the University's Community Service Center. The fair was held at PUA's student theatre on Tuesday, May 10, 2022. The university administration was keen on holding this fair to familiarize the students with the available opportunities, the various fields of the labor market, and to find real opportunities for work and training through submitting their CVs. The fair was opened by Prof. Dr. Ramadan Abu El Ala, Vice President for Community Service and Environmental Development, and Prof. Dr. Sahar Hamouda, Dean of the Faculty of Languages and Translation. Further, 11 different telecommunications companies, translation centers, and language schools participated in the fair. It achieved a great success as it was greatly organized and received large numbers of students, faculty members, and teaching assistants.



<https://www.pua.edu.eg/faculty-of-languages-and-translations-1st-job-fair/>

Faculty of Pharmacy's Job Fair

The Faculty of Pharmacy and Drug Manufacturing organized a job fair at PUA's student theater on Tuesday, April 26, 2022. The Faculty was keen on holding this forum to give its students an opportunity to learn about the different areas of the labor market, and to find real opportunities for work and training by submitting their CVs. The fair was opened by Prof. Dr. Mahmoud Mohy El Din, President of the University, and Prof. Dr. Maged Al-Ghazouly, Dean of the Faculty of Pharmacy and Drug Manufacturing. Further, 32 different pharmaceutical companies participated in the fair, which achieved remarkable success due to wonderful organization and a large presence by the Faculty's students, faculty members, and teaching assistants.



<https://www.pua.edu.eg/faculty-of-pharmacys-job-fair/>

Fifth job fair of the Faculty of Tourism and Hotel Management

Prof. Dr. Mahmoud Mohy El-din, PUA's President, launched the Fifth job fair, which was organized by the Faculty of Tourism and Hotel Management.

This fair comes within PUA's endeavor to provide job opportunities for its graduates, and to implement training partnerships with various tourism companies and hotel chains in Alexandria.

The fair witnessed a large presence of industry men and Faculty's cooperation partners, represented by 20 tourism companies and hotels. As well as representatives of the Ministry of Tourism and the Tourism Promotion Authority in Alexandria.

Accordingly, the Faculty administration extends its sincere thanks and appreciation to all those who thankfully participated in the job fair. As well as for the support provided to promote the level of training in the Faculty and facilitating the graduates' access to proper job opportunities.

<https://www.pua.edu.eg/5th-job-fair/>

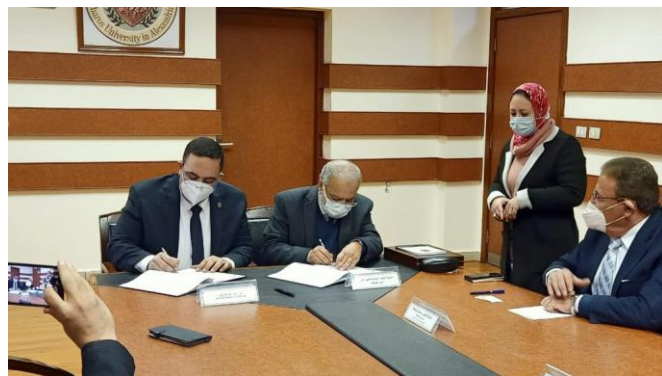


Cooperation for SDG 9

Cooperation Protocol between Pharos University and Arab Organization for Industrialization

The protocol included the possibilities of joint cooperation in the fields of scientific research, training and participation in solving technical problems for the sake of carrying out research and patents and benefiting from the scientific and human capabilities at Pharos university and the Arab Organization for Industrialization. The delegation was received by Prof. / Mahmoud Mohy Al-Din – President of the University, Prof. / Ramadan Abu Al-Ela – Vice President for Community Service and Environmental Development Affairs, Prof. / Mohammed Gabar Abo Ali Faculty of Engineering Dean, Prof. / Mohammed Naem Faculty of Engineering Vice Dean, and Prof./ Mohammed Yahia Al-Makki Professor at the Faculty of Engineering, and a number of teaching staff committee at the faculty. Both parties agreed on the optimal use of the resources to move to the rank of developed countries and achieving the developmental desired aims of the Egyptian

society and to accomplish the above the both parties signed a cooperation protocol signed by Prof./ Mahmoud Mohy El-Din as a Pharos University President Also Major General/ Ahmed Abdel Aziz – authorized by Lieutenant General chairman of the organization.



<https://www.pua.edu.eg/cooperation-protocol-between-pharos-university-and-arab-organization-for-industrialization/>

Department of Petrochemical Engineering's scientific visit

In the context of its policy which aims at achieving full integration between academic studies and industrial experiences, the Department of Petrochemical Engineering organized a scientific visit to the Sidi Kerir Petrochemicals Company (SIDPEC) on Sunday, March 27, 2022 for the students of the third year. The visit was under the supervision of Ass. Prof. Dr. Rania Farouk and Dr. Fathi Shoukry in recognition of the necessity of giving due care to the practical side and relating it to the theoretical side.

The visit began with orientation sessions on occupational safety and health and the factory's work system. Later, the students viewed the occupational safety and health equipment and practiced how to use it. This was followed by a visit to the ethylene production unit, and the students were introduced to the reactors used and how to deal with industrial waste. The tour was continued with a visit to the packing unit and the control room to learn how the work is managed from inside that room to serve the production process, as well as the extent to which what appears on the screens matches what is on the ground, hence, serving the courses of Safety for petrochemical industries, Flow sheeting, and Introduction to Environmental engineering. Consequently, students gained a lot of information that greatly served as the illustration of the courses and broadened their understanding of which. Further, the students posed many questions, and some pictures were taken during the visit.





<https://www.pua.edu.eg/department-of-petrochemical-engineerings-scientific-visit/>

Training Opportunities in Sidi Kerir Petrochemicals Co. (Sidpec)

The Field Training Center announces training opportunities for the Senior Students of the Faculty of Engineering (Petrochemical, Electrical and Mechanical Engineering Departments) in the Sidi Kerir Petrochemicals Co. (Sidpec). A bus will be provided to take the students from the Faculty of Engineering, Abu Qeir St. to Sidpec's headquarter. For registration, please head to the Field Training Center, Theoretical Building, 1st Floor, Room No. D134.



إعلان هام

يعلن مركز التدريب الميداني عن فرصة تدريب لطلاب مرحلة البكالوريوس كلية الهندسة أقسام "بتروكيماويات - كهرباء - ميكانيكا" وذلك في شركة سيدى كرير للبتروكيماويات "سيديك" على النحو التالي

عدد الأيام	فترة التدريب		المجموعة
	من	إلى	
2	2022/7/17	2022/7/28	الأولى
2	2022/7/31	2022/8/11	الثانية
2	2022/8/14	2022/8/25	الثالثة

سيتم توفير أتوبيس لنقل الطلاب من أمام مبنى كلية الهندسة - شارع ابو قير الى مقر الشركة
سرعة التوجه للتسجيل بمركز التدريب الميداني
" المبنى النظري - الدور الأول - D134 "

<https://www.pua.edu.eg/training-opportunities-in-sidi-kerir-petrochemicals-co-sidpec/>

Small Projects Exhibition of the Faculty of Engineering

The Faculty of Engineering organized the Small Projects Exhibition under the supervision of the Student Activities Department at the Faculty's building. This exhibition gave the students the chance to present some of their electrical projects to the jury. The jury were then asked to choose the best project of the participating students of the department. Further,

this exhibition was held in the presence of Prof. Dr. Muhammad Abdul Rahman, academic supervisor of the Electrical Engineering Department, along with a large number of the Faculty students, faculty members, and the teaching assistants.



<https://www.pua.edu.eg/small-projects-exhibition-of-the-faculty-of-engineering/>

Protocol on Cooperation Between PUA and Alexandria Mineral Oils Company (AMOC)

The meeting and the signed protocol have tackled the prospects of mutual cooperation in training fields, and participation in solving the technical issues, to which PUA can contribute in finding practical solutions. Accordingly, both parties have agreed on making optimal use of their respective capabilities in a manner compliant with the state's strategy in terms of connecting industrial institutions and productions sites, with the Egyptian Scientific and Academic Institutions to achieve the developmental objectives of the Egyptian society. To achieve that, a protocol on cooperation has been signed by Prof. Dr. Ramadan Abu Al Ella, as PUA's Vice-president for Community Services and Environment Development and Chem. Ehab Ahmed Abdul Halim, as Chairman and Managing Director of Alexandria Mineral Oils Company (AMOC).



<https://www.pua.edu.eg/protocol-on-cooperation-between-pua-and-alexandria-mineral-oils-company-amoc/>

PUA Signs a Protocol on Cooperation with Alexandria Specialty Petroleum Products Company (ASPPC)

A high-ranking delegation of Alexandria Specialty Petroleum Products Company (ASPPC) visited PUA. The delegation was headed by Chem. Dr. Mosaad Attia Al Qasabi, Chairman and Managing Director. The delegation was hosted by Prof. Ramadan Abu El-Ala, Vice President of Community Service & Environment Development Affairs, Prof. Dr. Prof. Mohamed Gaber Abou Ali, Dean of the Faculty of Engineering, Prof. Dr. Gamal Elbhery, Dean of the Faculty of Computer Science & Artificial Intelligence, Prof. Dr. Mohamed Yahia Al Mekki, Professor of Engineering, and a number of faculty members of the Faculty of Engineering.

Both parties discussed mutual cooperation possibilities in training fields, and participating in solving the technical issues, to which PUA can contribute in finding practical solutions. Thus, the parties agreed on the necessity of the optimal use of each party's available capabilities in a manner





compliant with the state's strategy in terms of connecting the industrial institutions with production sites, and the Egyptian scientific and academic institutions to achieve the developmental objectives of the Egyptian society. To this end, both parties agreed on a protocol on cooperation that was signed by Prof. Dr. Mahmoud Mohy El-Din, as PUA President and Chem. Dr. Mosaad Attia Al Qasabi, as Chairman and Managing Director of Alexandria Specialty Petroleum Products Company (ASPPC).

<https://www.pua.edu.eg/pua-signs-a-protocol-on-cooperation-with-alexandria-specialty-petroleum-products-company-asppc/>

Protocol on Cooperation Between PUA and Alexandria Mineral Oils Company (AMOC)

A prestigious delegation from Alexandria Mineral Oils Company (AMOC) headed by Chem. Ehab Ahmed Abdul Halim, Chairman and Managing Director, visited PUA on early Monday 07/02/2022. It included Mrs. Hala Wagih, Assistant Director for Training and Human Resources

Development, Mrs. Rania Al Maleki, Director-General for Media and External Affairs, Eng. Mohammad Abdul Razaq, Director-General of the Public Administration for Chemical Labs, along with other leading staff members. The delegation was welcomed in PUA's Grand Hall by Prof. Dr. Ramadan Abu Al Ella, Vice-president for Community Services and Environment Development, Prof. Dr. Mohamed Gaber Abou Ali, Dean of the Faculty of Engineering, Prof. Dr. Gamal Behiry, Dean of the Faculty of Computer Science and Artificial Intelligence, Prof. Dr. Mohammad Yahia Al Mekki, Faculty of Engineering, as well as other faculty members of the Faculty of Engineering.

Both Parties have tackled the prospects of mutual cooperation in training fields, and participation in solving the technical issues, to which PUA can contribute in finding practical solutions. Accordingly, both parties have agreed on making optimal use of their respective capabilities in a manner compliant with the state's strategy in terms of connecting industrial institutions



and productions sites, with the Egyptian Scientific and Academic Institutions to achieve the developmental objectives of the Egyptian society. To achieve that, a protocol on cooperation has been signed by Prof. Dr. Ramadan Abu Al Ella, as PUA's Vice-president for Community Services and Environment Development and Chem. Ehab Ahmed Abdul Halim, as Chairman and Managing Director of Alexandria Mineral Oils Company (AMOC).





Pharos University in Alexandria
Vice President for Graduate Studies & Research
International Ranking committee



<https://www.pua.edu.eg/protocol-on-cooperation-between-pua-and-alexandria-mineral-oils-company-amoc/>



Cooperation for SDG 11

Pharos university in The First Egyptian Hackathon for Smart Cities

The Department of Electrical Engineering have participated in the activities of the first Egyptian Hackathon for Smart Cities at the national level. The event was held at Benha University from March 24 to March 26, 2022 under the patronage of His Excellency the Minister of Higher Education and Scientific Research, and in partnership with the Amazon Web Service.

Benha University, as the organizer of the event, announced that 478 teams representing 50 Egyptian public, private, and national universities applied to participate in the hackathon. The teams were later shortlisted to only 40 teams representing 25 universities.

The electrical engineering department team was chosen as the sole representative of Pharos University. The team includes five students from the fifth year, namely: Mohamed Abdel Azeem, Fayza Abdel Fattah Mohammad, Ahmed Khalil, Seif El-Din Mahmoud, Mohammad Ali Ahmed. Further, the project presented was supervised by Prof. Dr. Ahmed Abdullah. The team is also accompanied by Eng. Abdul Rahman Khaled, teaching assistant, as a supervisor.



<https://www.pua.edu.eg/departments-of-electrical-engineering-in-the-first-egyptian-hackathon-for-smart-cities/>

Climate Conference

A high-level delegation from Pharos University participated in the “Future of Alexandria and Climate Challenges” conference held at the Bibliotheca Alexandrina on Tuesday, March 29, 2022, which was co-sponsored by Pharos University. The delegation included Prof. Dr. Mahmoud Mohy El-Din, President of the University, Prof. Dr. Prof. Nourhan Fanaky, Vice-President for Education and Student Affairs, Prof. Dr. Prof. Ramadan Abu El-Ala, Vice President of Community Service & Environment Development Affairs, Prof. Dr. Boshra Salem, Dean of Postgraduate Studies and Research, and Prof. Dr. Ramadan Abdel Maksoud, Supervisor of the Department of Architecture, Faculty of Engineering, along with a number of university students. Further, the delegation members participated in the important discussions and recommendations produced from the sessions held in this regard.



<https://www.pua.edu.eg/climate-conference-2/>

Participation of the Architectural Department in The Competition of Designing Kiosks at Al Azbakiya Park Within the Project of Developing the Garden

Within the framework of the government efforts in the development of the old Cairo area to revive, conserve and restore buildings, in addition to the development of urban areas, to serve pedestrians and transportation in their various forms that serve the society, and including the development of al Azbakiya Park, where the park occupies an urban site linked to most of the important squares of the city center.

In order to encourage the role of youth, the Department of Architecture at Pharos University in Alexandria has participated with six teams of different academic levels, where three of them were qualified for the finals within different universities in the keenness of the Department of Architecture at Pharos University to develop the capabilities of students and participate effectively in community service.



<https://www.pua.edu.eg/wp-content/uploads/2023/10/%D9%86%D8%B4%D8%B1%D8%A9-%D9%82%D8%B3%D9%85-%D8%A7%D9%84%D9%87%D9%86%D8%AF%D8%B3%D8%A9-%D8%A7%D9%84%D9%85%D8%B9%D9%85%D8%A7%D8%B1%D9%8A%D8%A9-2023.pdf>



Don Quixote's Novel Reading Event

The Spanish Department of the Faculty of Languages and Translation, in cooperation with the Spanish Embassy, organized an event for reading Don Quixote's novel in both Spanish and Arabic. Students of the Department of Spanish Department from different years, faculty members, and teaching assistants from all departments participated in reading parts of the novel. This event was supervised by Prof. Dr. Hala Awad, Head of the Department of Spanish Language, sponsored by Prof. Dr. Sahar Hamouda, Dean of the Faculty, and coordinated by Mrs. Rania Bassiouny, Coordinator of the Faculty's International Relations.



<https://www.pua.edu.eg/don-quixotes-novel-reading-event/>



Towards a Sustainable Tomorrow” annual competition was held at PUA’s Faculty of Engineering, under the auspices and support of Birla Carbon.

“The competition was opened at 9:30 am with a speech from Prof. Dr. Muhammad Gaber Abu Ali, Dean of the Faculty of Engineering. After that, the senior students presented their competing projects Four academic departments participated in the competition, namely:

- Petrochemical Engineering Department (two projects)
- Mechanical Engineering Department (four projects)
- Electrical Engineering Department (two projects)
- Construction Engineering and Management Department (two projects)

Together, the competing projects reached 10 projects and were evaluated by a jury comprising of:

- Dr. Mona Gamal El-Din, Dean of the Faculty of Energy, Environmental and Petrochemical Engineering, Egyptian Japanese University
- Dr. Boshra Salem, Dean of Graduate Studies and Research Affairs
- Dr. Mohamed Naim Anwar, Vice Dean of the Faculty of Engineering for Education and Student Affairs
- Dr. Wael El-Maghlany, Head of the Mechanical Engineering Department, Faculty of Engineering, Alexandria University.

Further, the faculty members who supervised the graduation projects along with the competing students were honored and awarded certificates of appreciation. At 2 pm, the results were declared and in first place came the Petrochemical Engineering Department with a project entitled “Improving the Performances of Cellulose Acetate membrane for Water Desalination by doping Nano-graphene Oxide”. This project was supervised by Dr. Aya Suleiman and Dr. Ashraf Morsi, and was awarded a prize money of EGP 17,000.



<https://www.pua.edu.eg/towards-a-sustainable-tomorrow-competition/>

Cooperation for SDG 13

Pharos university organize a student's sustainable projects competition with cooperation with Birla Carbon Egypt

The faculty of Engineering organized the “Towards Sustainable Tomorrow” competition sponsored by Birla Carbon Egypt for the third year in a row. This was held on Tuesday, 28 July 2020. The competition aims to choose creative projects that serve sustainability. The value of 36000 LE was allocated for the awards of the first three places: 17000 LE for the 1st place, 12000 LE for the 2nd place and 7000 for the 3rd place. It is worth mentioning that 6 projects participated in this competition from [Electrical Engineering, Mechanical Engineering, Petrochemical Engineering Departments](#).



The electrical engineering project “IoT Approach for Sustainable Green Campus” won the 2nd place in the competition. It was submitted under the supervision of Dr. Mohammed Adb El Karim.

Petrochemical Engineering Department participated with 2 projects:

- “Synthesis of Ion Exchange Resins for Ammonia Removal Based on Waste Polymers” which was submitted under the supervision of Dr. Rania Farouk.
- “Recycling of Polyester Fabric Scraps” won 3rd place in the competition. It was submitted under the supervision of Dr. Ehsan Nafed.

Mechanical Engineering Department participated with 3 projects:

- “Design, Modeling and Performance Analysis of Solar Still” which was submitted under the supervision of Dr. Mohamed El Saied Youssef.
- “Design and Optimization of Network Solar” won the 1st place in the competition. It was submitted under the supervision of Dr. Mohamed El Naqib.
- “Home Scale Vertical Axis Wind Turbine (VAWT)” won the 2nd place in the competition. It was submitted under the supervision of Dr. Sameh Tawfik.

<https://www.pua.edu.eg/pharos-university-organized-towards-sustainable-tomorrow-competition/>

Climate Conference

A high-level delegation from Pharos University participated in the “Future of Alexandria and Climate Challenges” conference held at the Bibliotheca Alexandrina on Tuesday, March 29, 2022, which was co-sponsored by Pharos University. The delegation included Prof. Dr. Mahmoud Mohy El-Din, President of the University, Prof. Dr. Prof. Nourhan Fanaky, Vice-President for Education and Student Affairs, Prof. Dr. Prof. Ramadan Abu El-Ala, Vice President of Community Service & Environment Development Affairs, Prof. Dr. Boshra Salem, Dean of Postgraduate Studies and Research, and Prof. Dr. Ramadan Abdel Maksoud, Supervisor of the Department of Architecture, Faculty of Engineering, along with a number of university students. Further, the delegation members participated in the important discussions and recommendations produced from the sessions held in this regard.



<https://www.pua.edu.eg/climate-conference/>

Pharos University participates in a conference discussing Climate Change effects on Alexandria, Organized by Alexandria University.

A high-level delegation from Pharos University participated in the “Future of Alexandria and Climate Challenges” conference held at the Bibliotheca Alexandrina on Tuesday, March 29, 2022, which was co-sponsored by Pharos University. The delegation included Prof. Dr. Mahmoud Mohy El-Din, President of the University, Prof. Dr. Prof. Nourhan Fanaky, Vice-President for Education and Student Affairs, Prof. Dr. Prof. Ramadan Abu El-Ala, Vice President of Community Service & Environment Development Affairs, Prof. Dr. Boshra Salem, Dean of Postgraduate Studies and Research, and Prof. Dr. Ramadan Abdel Maksoud, Supervisor of the Department of Architecture, Faculty of Engineering, along with a number of university students. Further, the delegation members participated in the important discussions and recommendations produced from the sessions held in this regard.



<https://www.pua.edu.eg/climate-conference-2/>

<https://www.pua.edu.eg/media-and-climate-changes-seminar/>

Pharos university organizes a seminar on seminar on “Media and Climate Change in the Light of the Sustainable Development Goals” with participation of several local media experts

PUA’s Faculty of Mass Communication organized a seminar on “Media and Climate Change in the Light of the Sustainable Development Goals”. This seminar tackled the following topics:

- Climate changes and how to adapt to them.
- Urgent actions to address climate change.
- Alexandria and the fate of disappearance.
- Rising temperatures and their impact on coastal cities.
- Sustainable development and climate fluctuations.
- The role of media and social media in educating the public about climate change and their effects on all aspects of life.



Further, the seminar hosted a group of environment and media experts, namely: Dr. Mahmoud Bakr, Deputy Editor-in-Chief of Al-Ahram Weekly and Head of the Environment Department. Dr. Ramy Yacoub, United Nations Industrial Development Consultant and Director of the European Union and Earth Climate for Sustainable Development Foundation’s Climathon Egypt Project, Dr. Mamdouh Rashwan, Secretary-General of the Arab Union for Environmental Affairs and President of the Egyptian Youth Association for Development & Environment (YADE). Dr. Saber Mohammed Othman, Climate Change Expert and Chairman of the Board of Trustees of Climate Earth Climate for Sustainable Development Foundation’s, Dr. Sameh Riyadh, Head of the Environmental Affairs Authority in



Alexandria Governorate. Prof. Hassan Baraka, Assistant Editor-in-Chief and Environmental official at Al-Akhbar Newspaper. Prof. Fawzy Abdel Halim, former Editor-in-Chief and Head of Environment Department of Al-Ahram Newspaper. The seminar aimed to educate students about the climate change crisis and its effects on the future of upcoming generations.

This seminar was moderated by Dr. Mahmoud Bakr, Deputy Editor-in-Chief of Al-Ahram Weekly and Head of the Environment Department at Al-Ahram. The guests presented several visions on different topics.

<https://www.pua.edu.eg/media-and-climate-changes-seminar/>

Cooperation for SDG 14

As part of its interest in participating in important issues at both global and local levels, PUA's Faculty of Mass Communication organized a seminar on "Media and Climate Change in the Light of the Sustainable Development Goals". This seminar tackled the following topics:

- Climate changes and how to adapt to them.
- Urgent actions to address climate changes.
- Alexandria and the fate of disappearance.
- Rising temperatures and their impact on coastal cities.
- Sustainable development and climate fluctuations.
- The role of media and social media in educating the public about climate changes and their effects on all aspects of life.



Further, the seminar hosted a group of environment and media experts, namely: Dr. Mahmoud Bakr, Deputy Editor-in-Chief of Al-Ahram Weekly and Head of the Environment Department. Dr. Ramy Yacoub, United Nations Industrial



Development Consultant and Director of the European Union and Earth Climate for Sustainable Development Foundation's Climathon Egypt Project, Dr. Mamdouh Rashwan, Secretary-General of the Arab Union for Environmental Affairs and President of the Egyptian Youth Association for Development & Environment (YADE). Dr. Saber Mohammed Othman, Climate Change Expert and Chairman of the Board of Trustees of Climate Earth Climate for Sustainable Development Foundation's, Dr. Sameh Riyadh, Head of the Environmental Affairs Authority in Alexandria Governorate. Prof. Hassan Baraka, Assistant Editor-in-Chief and Environmental official at Al-Akhbar Newspaper. Prof. Fawzy Abdel Halim, former Editor-in-Chief and Head of Environment Department of Al-Ahram Newspaper. The seminar aimed to educate students about the climate change crisis and its effects



on the future of upcoming generations.

This seminar was moderated by Dr. Mahmoud Bakr, Deputy Editor-in-Chief of Al-Ahram Weekly and Head of the Environment Department at Al-Ahram. The guests presented several visions on different topics.

This seminar was characterized by the remarkable organization, large attendance, interaction of the Faculty students and guests, as well as the exchange of experiences and different viewpoints.

<https://www.pua.edu.eg/media-and-climate-changes-seminar/>



For SDG 3 the students the students participated in the following project

“Factors affecting COVID-19-related health literacy in Egyptian population”

The aim of this project is to assess coronavirus-related health literacy in Egyptian population and to increase their awareness about preventing the spread of COVID-19 virus.

Specific Objectives

- Measure Patient’s health literacy regarding the disease
- Examine the differences in health literacy in relation to age, gender, education level, professional background being medical or non-medical, and socioeconomic factors.
- Provide evidence-based information to the enrolled participants about the protective measures required to stop the spread of the COVID-19 virus and answer their enquiries about this topic.

Subjects and methods:

This cross-sectional study was done in Egypt during the second wave of COVID-19 pandemic. It represents a population-based survey on comprehensive health literacy in relation to coronavirus information and it uses the adapted HLS-EU-Q in the context of the COVID-19 to assess coronavirus-related health literacy. It also tests COVID-19-related health literacy in individuals in relation to feeling informed or confused about COVID-19 by the high flow of information about the COVID-19. Each item of the questionnaire was rated on a four-point Likert scale (very difficult, difficult, easy, and very easy). “Very difficult” was scored as 1 “difficult” was scored as 2, “easy” was scored as 3, and “very easy” was scored as 4. Scale values were calculated as summed scores.

Sociodemographic Questions:

Participants were asked about their gender, age, education, household monthly income, and occupation (medical versus non-medical background).

Information or Confusion about the Coronavirus

Health Literacy assessment

- Mean score of <2.5: “inadequate health literacy”
- Mean score of 2.5–3: “problematic health literacy”
- Mean score of >3: “sufficient health literacy”



Questionnaire tools was translated from English into Arabic by an independent Arabic native speaker, and later back translated by a second translator to establish a version (semantically, conceptually, and experientially) equivalent to the original one. The retro-translation gave rise to no differences.

Second phase: Questionnaire filling

The survey was done via participants interviews in spring 2020-2021. Students were divided into groups for questionnaire sample collection using stratified random sampling technique. They were divided according to the criteria of participants enrollment into 16 groups that represent the diverse Egyptian population, Where each student applied face-to-face interviews with 10 participants. The survey included male and female participants from Egypt. Each student filled the gathered information later in a Google form.

Third phase: Increasing population awareness about COVID-19 pandemic

Fourth phase: Statistical analysis:

Ethical approval:

Ethical approval was granted by the ethics committee of the faculty of pharmacy, Pharos university in Alexandria, Egypt (Study number: PUA01202106203024)

Conclusion:

There is a great need to promote health education among the Egyptian population. Limited health literacy which includes problematic and inadequate health literacy is a common problem. More than half of the Egyptian population has inadequate or problematic COVID-19 related health literacy score. Female gender, younger age, higher socioeconomic status, professions with medical background, and level of education were positively correlated to COVID-19 related health literacy. It is important that the government, policymakers, healthcare providers, and media act proactively to increase the level of the citizens COVID-19 related health literacy.



“The Baby Safe mattress”

The Baby Safe mattress. It is a medical mattress for children, the purpose of which is to protect the child from any emergency situation, whether it is an increase in the child's temperature, an irregular heartbeat, or a decrease in the level of oxygen in the blood through sensors located in the mattress. It issues alerts to the mother through a loudspeaker or through the mother or father's phone by downloading a special program for the mattress to inform them periodically about the health of their child.

Aim of the Research Project (baby safe):

One of the goals of serving working women and providing family safety is that the research project aims to provide comfort for the mother and father and safety for the child by following up on his health status during sleep or waking up and making sure that the child's condition is safe through the sensors in the rank that constantly send updates on the child's condition. The application

is available on the parents' phones, and if an error occurs in the child's pulse, oxygen, or temperature, alerts are sent to the mother or father's phone to inform them of the location of the defect.

Stages of Carrying out the Research Project (baby safe): -

- 1- After suggesting the idea among the work team members
- 2- It was implemented in a maquette that expresses and about the sensors and the sounds of alerts that come out of it to warn about something that is happening
- 3- A website has been created for the product to be sold on the Internet
- 4- Create pages on social networking sites (Facebook and Instagram) to promote the product and explain it to the consumer
- 5- Proposing sales development plans for the product, for example: by making contracts with outlets selling children's products to display our product in their showrooms

(Implementing “Dental Traumatic Injuries Educational Program” Among teachers



of different Governmental Elementary schools in Alexandria, Egypt.)

The aim of this study was to:

Assess the level of knowledge of the governmental elementary school teachers about TDIs & their management, using questionnaires.

Awareness about TDIs emergency management through implementing an oral health educational program to the same target group.

Traumatic Dental Injuries (TDIs) are a serious dental public health problem among children (International Society of Preventive & Community Dentistry, 2019). It can vary from a minor tooth fracture to extensive maxillofacial damage. Oral injuries are the fourth most common area of bodily injuries.

The prevalence of Traumatic injuries in permanent teeth have been reported to exceed 60%. In Egypt, a study was conducted by ElKelany M. et al concluded that the most common areas of TDIs among children were at school (50%) then at home (30%); this was mostly due to increased predisposition of accidents, fights & sports traumas at school age.

Recommendations:

We recommend implementing a dental traumas awareness program at different schools in Alexandria.

Also, to provide an emergency dental unit at PUA outpatient clinics (PUA trauma center); furthermore, establishment of trauma hotline to provide teachers with appropriate management in case of TDIs emergency.



Assessment and Intervention Program to Raise Nutritional and Health Awareness of Females in the Reproductive Age and their children in Alexandria Rural Area "Houd 10"

Project Aim:

- To assess the nutrition status and awareness of rural women.
- To assess the nutritional knowledge and the awareness of rural women.
- To conduct nutrition education program to raise the awareness of the rural women in the target areas.
- To evaluate the nutritional knowledge and the awareness after intervention program.

Project Summary:

Project Idea: Assessment of nutrition status of rural women to tackle any nutritional problems and evaluation of their nutritional knowledge aiming at providing targeted educational sessions to raise their awareness and improve their nutritional knowledge.

Project Phases: The project was carried out in three phases

Phase I:

Designing a questionnaire to measure the nutritional knowledge and awareness of rural women in Houd 10

Taking the approval from stakeholders (CAPMAS, Ministry of social solidarity, and National Security agency)

Phase II:

Collection of data (interviewing of the women, anthropometric measurements, and laboratory investigations)

Phase III:

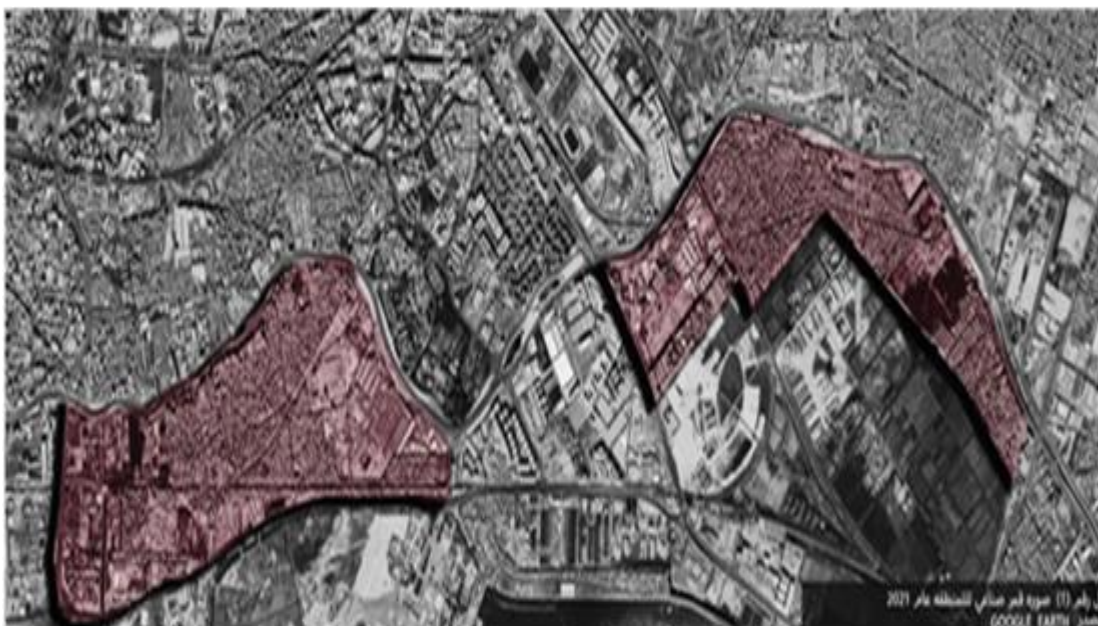
Designing and implementing educational programs through conducting awareness seminars in Houd 10 (rural area) through illustrative posters and lectures

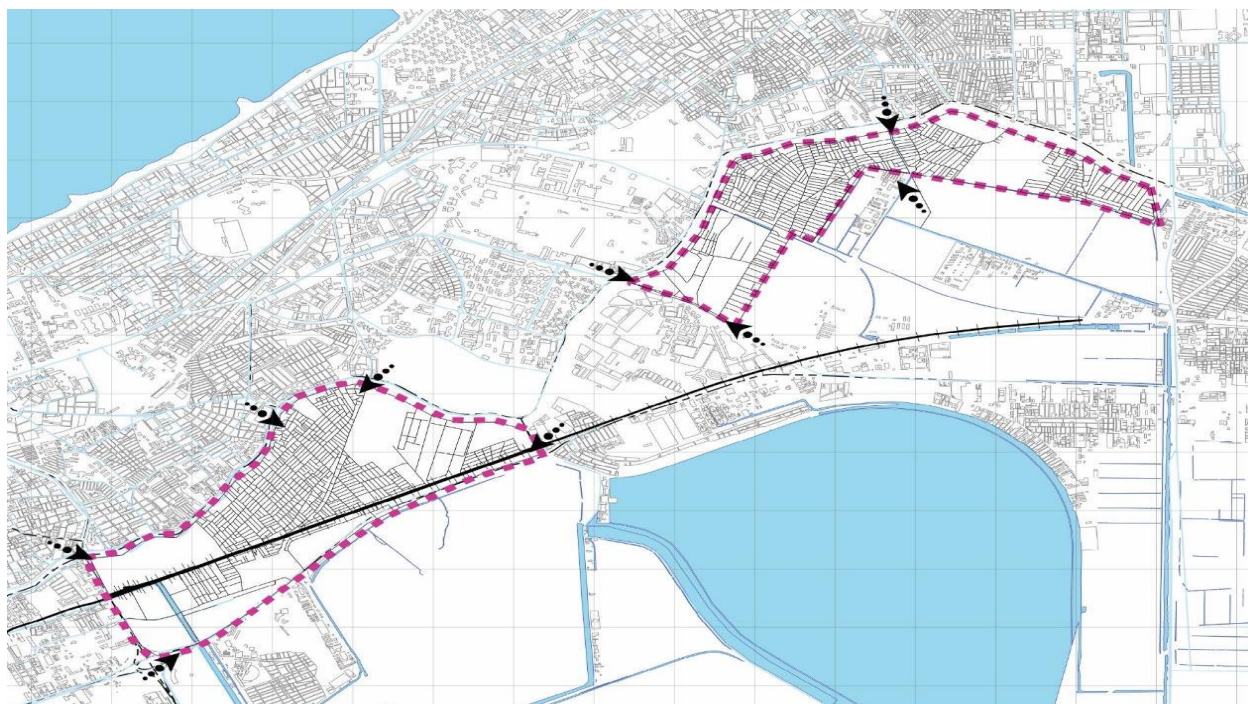
Recollecting data through post-intervention questionnaire to assess the changes in the nutrition knowledge of the rural women.

For SDG 11 the students participated in the following projects

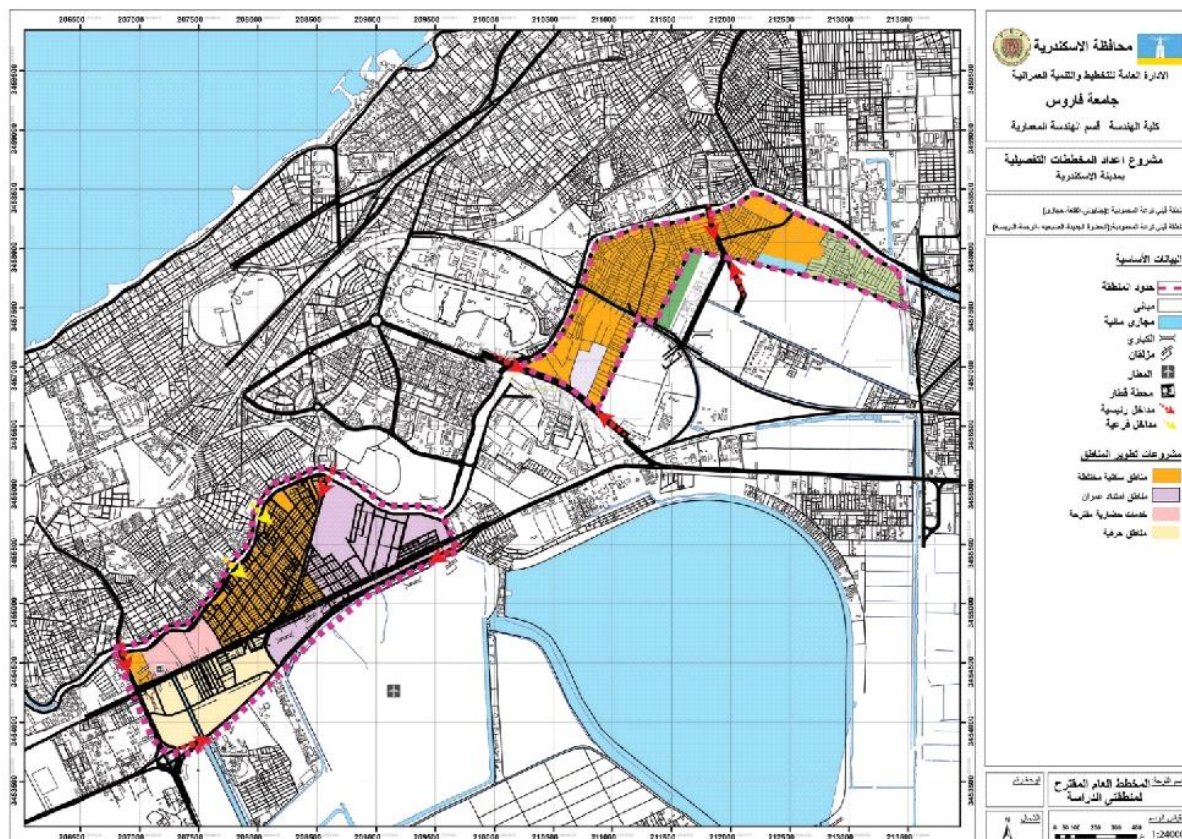
PREPARING DETAILED PLANS FOR SLUMS IN ALEXANDRIA GOVERNMENT

Regarding the cooperation through technical and academic support for the urban planning and development system to improve the environment and achieve sustainable development goals and within the framework of fruitful cooperation between Pharos University and the Governorate of Alexandria to activate its pioneering role in the Alexandrian society, detailed plans were prepared for the two areas.





The Department of Architectural Engineering, which is in charge of implementing the plan assigned to it, executed and prepared a detailed report for the two areas and the future vision for them and presented the outputs of the proposed master plan suggesting a proposal for the development of these two areas through several development axes based on the future vision represented by a number of projects in the development of residential areas and lands, in a report containing 85 pages, in addition to 25 geographic information systems (GIS) maps.





Designing shaded waiting benches on campus

❖ Introduction:

Universities with open spaces need seating areas for students and visitors within the campus square. These seatings must be shaded to provide protection and shelter to users from weather fluctuations, whether intense sunlight or rain especially after COVID19 pandemic regarding applying the precautionary measures and keeping the social distance. From here came the idea of the project where it presents a design proposal for a shaded waiting bench on Campus based on meeting the aesthetic appeal and functional needs to design a visual content befitting the identity of Pharos University in Alexandria.

Project Summary:

❖ Project Idea:

The project main idea lies in re-thinking the campus square that holds the CIB bank and all the university faculties, through introducing a design proposal of shaded waiting benches that provides protection and shelter to users from intense sunlight or rain, provided with several fixed side tables, which can be used in writing or for using students laptops provided with several electric sources where some students can join their on line lectures during their semesters.

❖ Project Phases:

- Designing shaded waiting seating units in the campus square with a contemporary vision that provides protection and shelter to users from weather fluctuations, whether intense sunlight or rain instead of jamming under the faculties' entrance and atrium.
- Designing a complete integrated designed unit that is convenient for students to use within their online lecture's using their mobile phones or laptops or waiting between lectures, providing it with some fixed side tables and electrical sources to use.
- Introducing the specialization of Decor Department at the Faculty of Arts and Design, Pharos University to civil institutions.
- Enhance the capabilities of Egyptian youth in the field of specialty and relatively meeting the market needs.
- Encourage the student to progress in such competitions initiated to enhance the competitive ability within the field of environmental furniture design.



❖ Project Studies:

First: The theoretical and practical study within the course contents

The theoretical study of the project concerns studying the concept of the shaded design unit proposal in addition to studying the importance of furniture design to meet users' needs even relevant to aid local society and environment. This is addressed through main points:

- 1- The student's selection of the most convenient furniture design according to the vision and needs of the University Students and Visitors.
- 2- Developing the idea of the design through different sketches to reach the final idea selected.
- 3- Determining the specifications of the shaded waiting benches and the availability to repeat it on campus square within suitable circulations between them.
- 4- Preparing the structural drawings of the furniture design needed to perform the design proposal.

Second: The practical study through simulation and availability to perform the Design Proposal:

The practical study for the design proposal of the shaded waiting bench on campus

concerns:

- 1- Studying the suggested materials and fixation techniques of the design proposal on campus.
- 2- Mass planning for the campus student square relative to the shaded bench repetition.
- 3- Simulation, through computer aided programs by placing the designed proposal in the campus square with the planned vision to study its suitability on the university campus to suit the objectives of the project.



Towards Sustainable Development of Tourism Beaches: The case of El Mandarah Beach, Egypt

This proposed project aims to develop an applicable, generic model and a practical action plan, which can be applied to all Alexandrian beaches and communities, in order to close the gap between the desired quality and the current state of how closely the management, employees, and visitors to these beaches adhere to the principles and international sustainability standards.

Furthermore, following an examination of the governorate of Alexandria's current sustainability initiatives, our aim is to educate local officials and the community on the concepts and principles of sustainability best practises, particularly during and after the corona virus pandemic, in order to raise awareness.

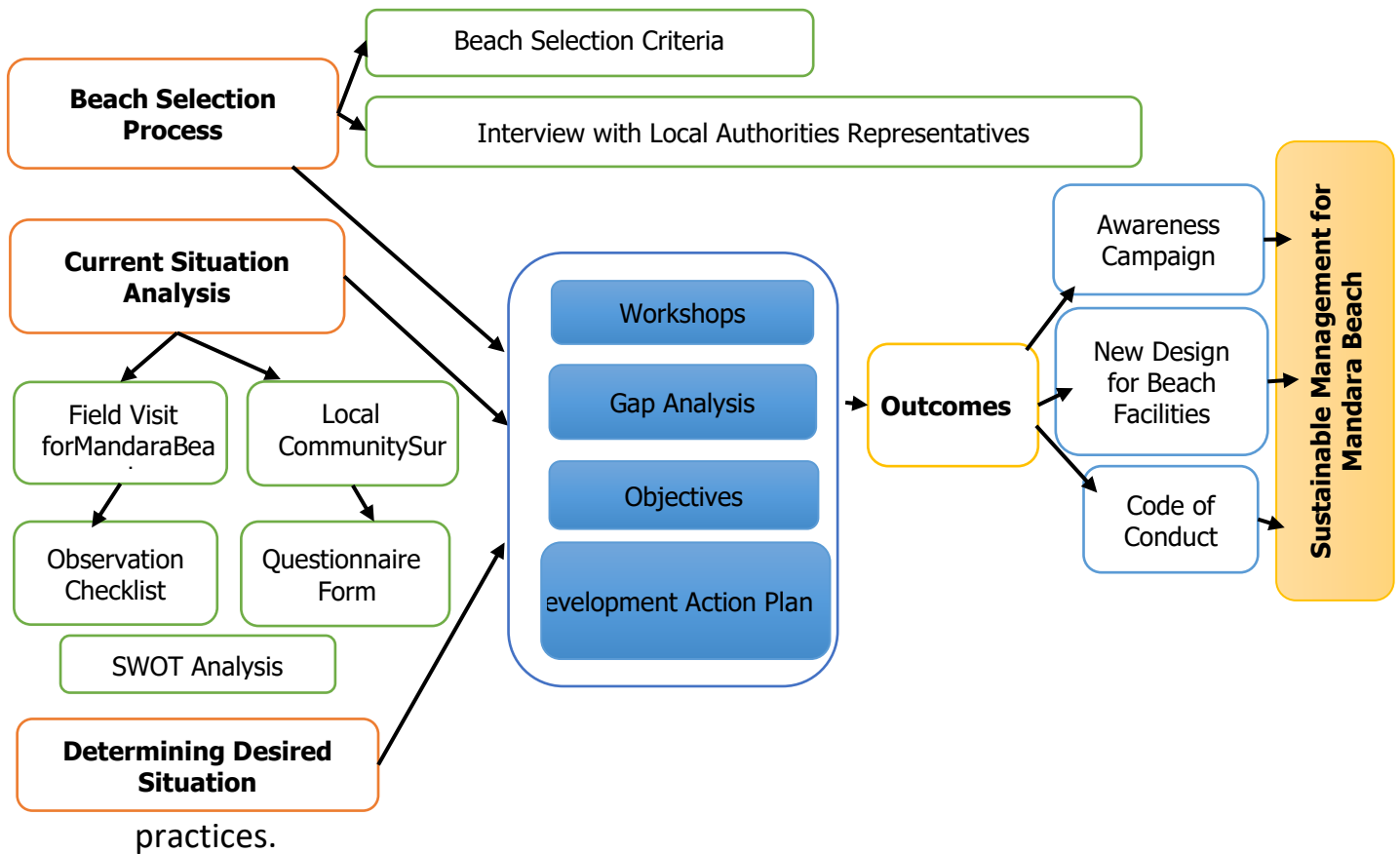
- **Project Phases:**

In the various phases of the study, the project used diverse methodologies such as interviews, field visits, surveys, and workshops, as shown in the model.

The phases began with an examination of the current state of sustainable tourist development along the coast of Alexandria. Then, from the Alexandria seacoast, choose three beaches, Gleem, Anfhoshy, and El Mandara, one of which will be chosen based on criteria. Finally, adopting important steps to enhance sustainability along the Alexandria shore, such as the ones listed below:

- To facilitate the field visit, communicating with local authorities about the need for them to approve and provide access to allow the conduction of the field study smoothly, as well as the necessity for them to shine scientific light on it.
- Executing crucial and applicable criteria that express the study's pillars.
- By conducting the study survey, we are aiming for local community comments and opinions that focus on their intellectual background and convey those actual situations of the examined beaches.

- Following the revision of the local community perspective, the next step is to create an action plan that will make it simple for local governments to implement **best**



From Abu Qir in the east to Al-Alamein and Sidi Abdul Rahman in the west, Alexandria beaches run for 140 kilometers along the Mediterranean Sea. The beaches of Alexandria are a popular tourist destination; each year, over one million local summer visitors and about five million inhabitants enjoy the summer season in Alexandria.



For SDG 16 the students the students participated in the following project

How rightful it is for countries to force it's citizens to take the vaccine

- The first aspect: Social responsibility

We launched an awareness campaign about the dangers of the virus and the necessity of receiving the vaccine, as well as offering a reward to those who are about to receive the vaccine. We named our reward card (Coronoply) as the inspiration was derived from the game (Monopoly), and the campaign is called (Get Out of Isolation).

- The second aspect: The legal role

The university is intervening in the lawsuit filed before the Administrative Court against the Prime Minister, where a number of plaintiffs are clearly impacted by the requirement to submit a certificate of vaccination when they enter their workplaces.

- The third aspect: The medical aspect

In our research, we referred to documented opinions of medical professionals in this matter, headed by the World Health Organization.

We will present this study by presenting two opposing opinions, each with its own arguments and proofs.

❖ Recommendations

At the end of our study, and after confirming the different opinions presented by the two parties, we conclude with the following recommendations:

First: We demand that Pharos University accept joining the lawsuit filed with the prepared defense memorandum.

Second: We ask the state to provide an advantage for the elderly, who are – certainly – fertile ground for the virus and are not obligated in any way to take the vaccine.

We have tried in every way possible during our campaign to provide integrated medical teams to go to the homes of the elderly to give them the vaccine, but it was not possible for us to do so because of the strict procedures the state has set up regarding this matter, represented by the Egyptian Ministry of Health.

Third: Launching an intensive awareness campaign for the age group from 15 to 18, who had the opportunity to be vaccinated from the 7th November.



International Cooperation and Partnerships for Sustainable Development:

International Partnerships (MOUs):

Pharos University established international relations with the following renowned universities and research centers:

Faculty	International Institute	Contributing to SDG
Pharmacy	University Malaya, Malaysia	SDG 3 – SDG 4
	Niagra College, Canada	SDG 3 – SDG 4
	FU Berlin, Germany	SDG 3 – SDG 4
	USM Malaysia, Malaysia	SDG 3 – SDG 4
	Aston University, Birmingham, UK	SDG 3 – SDG 4
	Durban University of Technology, South Africa	SDG 3 – SDG 4
Dentistry	Niagra College, Canada	SDG 3 – SDG 4
	Durban University of Technology, South Africa	SDG 3 – SDG 4
Engineering	Aristotle University, Greece	SDG 4 - SDG 7 – SDG 9
	Hunan Agricultural, China	SDG 4 - SDG 7 – SDG 9
	RWTH Aachen, Germany	SDG 4 - SDG 7 – SDG 9
	Wolverhampton, UK	SDG 4 - SDG 7 – SDG 9
Finance and Administrative Sciences	TU Dublin, Ireland	SDG 4 – SDG 8 – SDG 17
	Y-Schools, France	SDG 4 – SDG 8
	Durban University of Technology, South Africa	SDG 4 – SDG 8
Languages and Translation	Universidad del Noreste, Mexico	SDG 4
	Durban University of Technology, South Africa	SDG 4



Faculty	International Institute	Contributing to SDG
Legal Studies & International Relations	Aristole University, Greece	SDG 4 – SDG 16
	Durban University of Technology, South Africa	SDG 4 – SDG 16
Tourism and Hotel Management	JAMK, Finland	SDG 4 – SDG 17
	Y-Schools, France	SDG 4 – SDG 17
	City University, Malaysia	SDG 4 – SDG 11
	University of Malaga, Spain	SDG 4 – SDG 17
	TOI-OHOMAI, New Zealand	SDG 4 – SDG 17
	Ulster University, Ireland	SDG 4 – SDG 17
	Niagra College, Canada	SDG 4 – SDG 17
	Durban University of Technology, South Africa	SDG 4 – SDG 17
Physical Therapy	Durban University of Technology, South Africa	SDG 3 – SDG 4
MASS Communication	Aristole University, Greece	SDG 4
	Durban University of Technology, South Africa	SDG 4
Applied Health Sciences Technology	Aston University, Birmingham, UK	SDG 3 – SDG 4
	Durban University of Technology, South Africa	SDG 3 – SDG 4
Arts and Design	The University of Naples Federico II, Italy	SDG 4 – SDG 11
	Aristole University, Greece	SDG 4 – SDG 11
	Y-Schools, France	SDG 4 – SDG 11
	City University, Malaysia	SDG 4 – SDG 11
	Universidad de Sevilla, Spain	SDG 4 – SDG 11
	IED, Italy	SDG 4 – SDG 11
	Durban University of Technology, South Africa	SDG 4 – SDG 11



Faculty	International Institute	Contributing to SDG
Computer Science and Artificial Intelligence	North American, USA	SDG 4
	National Central University, Taiwan	SDG 4
	Durban University of Technology, South Africa	SDG 4

General MOUs

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
Durban University of Technology	 DUT DURBAN UNIVERSITY OF TECHNOLOGY

Conferences

List of conferences that were held in Pharos University

Faculty	Date	Conference	Related SDG
Pharmacy and Drug Manufacturing	May 14, 2022	3rd PUA International Conference "Innovation in Pharmaceutical Sciences" IC- IPS / 2022	SDG 3
Engineering	March 1-2, 2022	The Third International Conference on New Trends for Sustainable Energy, ICNTSE 2021 (ONLINE) - From Waste To Energy	SDG 7
Languages and Translation	March 11-12, 2022	Translation and Teaching English: Challenges and Perspectives - University College Dublin	SDG 4
Tourism and Hotel Management	December 4-5, 2022	The International Forum on Sustainable Tourism and Innovation - IFSTI	SDG 9 – SDG 11 – SDG 12
Physical Therapy	April 28-29, 2023	1st international conference on Physical Therapy entitled " Physical Therapy Towards Sustainable Development "	SDG 3



Faculty of Pharmacy 3rd PUA International Conference “Innovation in Pharmaceutical Sciences” IC- IPS / 2022 – 14th of May, 2022

URL: <https://www.pua.edu.eg/ic-ips/>

Faculty of Pharmacy, Pharos University in Alexandria, Egypt has the pleasure to cordially invite you to join the Third PUA International Conference on “Innovation in Pharmaceutical Sciences”, taking place on May 14, 2022 at Pharos University in Alexandria, Egypt.

The conference aims to provide an innovative and comprehensive overview of the latest research developments in Pharmaceutical Sciences.

Hopefully, IPS would serve as a catalyst by connecting scientists within and across disciplines under a single roof.

Third International Conference on New Trends in Sustainable Energy (ICNTSE-2021) online

PUA’s Faculty of Engineering organizes the Third International Conference on New Trends in Sustainable Energy (ICNTSE-2021) on 1-2 March 2022 via online conference. It is also worth mentioning that the Journal of King Saud University – Engineering Sciences (JKSUES) will publish a special edition for a selected group of the conference’s research, which meet the journal’s publishing requirements.



<https://www.pua.edu.eg/third-international-conference-on-new-trends-in-sustainable-energy-icntse-2021-online/>

The Faculty of Languages and Translation held an international conference in collaboration with Trinity College, Dublin University

The Faculty of Languages and Translation held a 2-day international conference in collaboration with Trinity College, Dublin University entitled “Translation and Teaching: Challenges and Perspectives”. The conference had great feedback from 140 attendees from all



around Egypt as well as attendees from Trinity College virtually. The conference dealt with a variety of topics on invitation methods of teaching and recent research on Translation. All abstracts were published in the conference procedures as well as keynote speakers’ abstracts. The conference held parallel sessions to cover a variety of topics. The attendees were thrilled by the organization, topics, and networking vibes.

Thank you note to all our sponsors: Capital Professional Development, American Council Egypt, IDP, and ECL Cambridge. The conference help SDG 4 – Quality Education.

<https://www.pua.edu.eg/faculty-of-languages-and-translation-holds-an-international-conference/>

The International Forum on Sustainable Tourism and Innovation – IFSTI

Pharos University's Faculty of Tourism and Hotel Management is eager to advance scholarly inquiry and promote originality and innovation. The faculty is organising The International Forum on Sustainable Tourist and Innovation (IFSTI) in partnership with ICOM in order to fulfil its objective and take the lead in the growth of the tourism industry.

In this worldwide forum, professionals and academics from all over the world come together to discuss cutting-edge ideas, research, and sustainable techniques for revitalizing the tourism, events management, and MICE industries on a national and international level.

Bringing together 100+ relevant private sector stakeholders to discuss the importance of tourism and events management as economic drivers, as well as the large impact they have on the technology, events planning, and MICE industries.

URL: <https://www.pua.edu.eg/tourism-and-hotel-management/conferences/ifsti/>

PUA's Faculty of Physical Therapy held the first international conference on Physical Therapy entitled "Physical Therapy Towards Sustainable Development".

The conference was honored by the presence of key officials and figures from PUA the Ministry of Health in Alexandria, in addition to a group of deans of faculties of physical therapy in Egypt. Further, a large number of graduates and students of physical therapy in Egypt and the world attended the Conference.



URL: <https://www.pua.edu.eg/1st-international-physical-therapy-conference-2023/>

Partnerships for Sustainability

Activities with Africa in the field of Sustainable Development

Pharos university is keen to have planned actions to recruit students/staff/faculty from under-represented group particularly Africa. Recently the university took steps in the following activities:

Pharos_ Mass communication organizes "Photojournalism Exhibition" with 48 press photos | Pharos University in Alexandria (pua.edu.eg)

Under the patronage of Prof. Dr. Mahmoud Mohy EL-Din, President of the University, and Prof. Dr. Ramadan Abul-Ela, Vice President for Environmental Affairs and Community Service, Prof. Dr. Howaida Mostafa, Dean of the Faculty of Mass Communication, Pharos University, inaugurated the "Photojournalism Exhibition", which is organized by the Journalism Department. College digital publishing.

Fifteen students from the Department of Journalism and Digital Publishing participated in the exhibition with 48 press photos, under the supervision of Dr. Maged Al-Manzalawi, teacher in the department and pioneer of student activities, and Dr. Ibrahim Al-Tawam, assistant professor and head of the Department of Journalism and Digital Publishing, and in the presence of the faculty's assistant staff.

The exhibition included a tour during which the Dean of the College met with a number of students, and praised the press photos produced by the department's students during the last semester, where she called on them to strive and arm themselves with science and knowledge to achieve success and excellence, and concluded the tour by taking memorial photos with the students.



<https://www.pua.edu.eg/pharos-mass-communication-organizes-photojournalism-exhibition-with-48-press-photos/>



Cooperation Project between University of Wolverhampton of UK and Pharos University in Alexandria

Joint Cooperation Project between University of Wolverhampton of UK and Pharos University in Alexandria

Advancing apprenticeship learning in Trans-National Education (TNE)

the Faculty of Engineering and the Construction Engineering and Management Department were honored to receive and organize the scientific forum entitled "Advancing apprenticeship learning in Trans-National Education (TNE)" as one of the activities of the joint project between Pharos University in Alexandria

and the University of Wolverhampton and funded by the British Council from the 25th to the 28th of July 2022 where a team from the University of Wolverhampton visited Pharos University in Alexandria and discussed the ways of Cooperation between in the presence of a selection of faculty members, representatives of the Syndicate of the Egyptian Engineers and experts and specialists from industry.



<https://www.pua.edu.eg/cooperation-between-wolverhampton-of-uk-and-pharos-university/>

Cooperation Protocol with TÜV AUSTRIA

For supporting the academic study of the Faculty students, providing them with practical and field experiences, and linking the curricula with industrial fields to achieve the sought integration, Prof. Dr. Mohamed Gaber Abou Ali, Dean of the Faculty of Engineering along with a group of the Faculty professors welcomed Mr. Osama El-Sayed Ibrahim, Regional Director of TÜV AUSTRIA, on Wednesday, January 26, 2022. The meeting included the signing of a cooperation protocol between PUA's Faculty of Engineering and TÜV Austria.



This protocol included providing training opportunities and specialized workshops for the Faculty students, providing experienced staff to supervise the students' research and projects at the Faculty, which would provide solutions to some of the industry's problems. In a similar context, the Faculty organizes training programs, workshops, conferences and seminars for the company's employees. It also provides academic consultations in light of the experience of its professors to solve some of the company's problems, which requires conducting research and studies in this regard.

<https://www.pua.edu.eg/puas-faculty-of-engineering-sign-a-cooperation-protocol-with-tuv-austria/>



Faculty Of Pharmacy Organizes two workshops.

The faculty of Pharmacy and Drug Manufacturing, Organized two workshops on 9-10 March 2020 from 9 am to 4 pm.

The first workshop is on “How to Implement Flipped Classroom Approach in University Courses” and delivered by Prof. Markku Saarelainen, a Professor of Physics at University of Eastern Finland (UEF) and a Professor of Practice at Tampere University (TAU) in Finland.

The second workshop which is about “Synthesis, Processing, Characterization and Functional Validation of Inorganic Nanomaterials for Bio-applications”, is delivered by Prof. Muhammet Toprak, a Professor of Materials Chemistry, Nanochemistry Research Group in the KTH -Sweden.

DEPARTMENT OF INTERNATIONAL RELATIONS

UPCOMING WORKSHOPS

MARCH 2020



Prof. Markku Saarelainen
University Lecturer in Physics, University of Eastern Finland (UEF)
and Professor of Practice Tampere University (TAU), Finland



Prof. Muhammet Toprak
Professor of Materials Chemistry, Nanochemistry Research Group,
KTH, Sweden

How to implement Flipped Classroom in university courses MARCH 9, 2020
9 am - 4 pm

The workshop is about implementation of the flipped classroom method in practice. In the workshop I will go through my "teachers guidebook", useful tips and technology that we have used in the Finnish universities. According to my experience, my examples and methods of instruction initiates discussion and rises questions. I would gladly use time to deepen the concept of using flipped classroom based on the participants demands and their wishes.

Synthesis, processing, characterization and functional validation of Inorganic Nanomaterials for bio-applications MARCH 10, 2020
9 am - 4 pm

The workshop aims at providing an overview of i) Inorganic Nanomaterial architectures; ii) Inorganic Nanomaterials in medicine; iii) Solution based Inorganic Nanomaterial synthesis strategies; iv) Basic Solution thermodynamics, solubility, Ksp, pH concepts; and v) provide software training on water based solution thermodynamics calculations for design of simple experiments for nanomaterial synthesis.

For registration please contact us through email : icmaps.international@pua.edu.eg

<https://www.pua.edu.eg/pharos-university-organizes-two-workshops-on-the-sidelines-of-the-2nd-international-conference-of-the-faculty-of-pharmacy-and-drug-manufacturing/>



An EU Funded project with six regional and international universities for sustainable development and preservation of heritage

The Faculty of Tourism and Hotel Management heads a funded project by the European Union, in partnership

- Université de Malte
- Leeds Beckett University- United Kingdom o Middle East University – Jordan
- Yarmouk University – Jordan o Suez Canal University
- Fayoum University

The proposed project under the title “Cultural Heritage Virtual Education System” (CHVEs) aims to modernize and improve the educational process in the field of tourism and cultural heritage sciences in the faculties and institutes of higher education in Egypt, through the development of international scientific cooperation and the transfer of knowledge. This project is considered of great value and importance regarding the issue of supporting the process of sustainable development and the preservation of the cultural and urban heritage of countries.

<https://www.pua.edu.eg/tourism-and-hotel-management/sustainability-concept-applications/fund-projects/>



International Mobilities contributing to different SDGs

The following table describes International Mobilities at Pharos University (PUA)

	2021-2022	2022-2023
No. of Academic Professors visiting PUA	10	44
No. of Academic Professors benefiting from Academic Exchange Programs	21 (From PUA) 10 (From outside PUA)	6 (From PUA) 33 (From outside PUA)

The following table shows the international mobilities of staff members and the contribution to the relevant SDG:

Name	Title	Faculty	Host University	Year	SDG
Mohmaed Elkoly	Lecturer	Engineering	KTH, Sweden	2022	SDG 9
Alaa Mahmoud Khalil	Lecturer	Engineering	KTH, Sweden	2022	SDG 9
Tamer Mohamed	Lecturer	Tourism and Hotel Management	Universidad de coruña, Spain	2022	SDG 13
Lamiaa Ibrahim Fathy	Assoc. Professor	Tourism and Hotel Management	JAMK University Finland	2021	SDG 13
Eslam Ibrahim Fathy	Assoc. Professor	Tourism and Hotel Management	JAMK University Finland	2021	SDG 13
Rasha Elbyaa	Professor	Pharmacy	Eastern Finland , Finland	2022	SDG 3, SDG 4



Name	Title	Faculty	Host University	Year	SDG
Gihan Labib	Assoc. Professor	Pharmacy	Eastern Finland , Finland	2022	SDG 3, SDG 4
Menna Gewaed	Assoc. Professor	Pharmacy	Eastern Finland , Finland	2022	SDG 3, SDG 4
Rewan Medhat	Demonstrator	Pharmacy	Eastern Finland , Finland	2022	SDG 3, SDG 4
Omnia Ashraf	Demonstrator	Pharmacy	Eastern Finland , Finland	2022	SDG 3, SDG 4
Rania Raoof	Lecturer	Art and design	Aristotle University of Thessaloniki, Greece	2022	SDG 11
Nada Kamel	Lecturer	Art and design	Aristotle University of Thessaloniki, Greece	2022	SDG 11
Mohamed Osama	Assistant lecturer	Art and design	Aristotle University of Thessaloniki, Greece	2022	SDG 11



Courses that Support Partnerships for the Goals

NO	Faculty	Course name	Course code	SDG
1	Mass Communication	Comparative Politics	GEN 101_M	SDG 17
2	Mass Communication	Media Law& Ethics	COM 300	SDG 16, SDG17
3	Mass Communication	Political Communication	COM 406	SDG 17
4	Mass Communication	Managing crisis in Public Relations	PR 306	SDG 12, SDG 17
5	Mass Communication	Protocol & Protocol	PR 405	SDG 17
6	Mass Communication	International Public Relations	PR 406	SDG 17
7	Tourism and Hotel Management	Business Administration	GEN 102_T	SDG 8 - SDG 17
8	Tourism and Hotel Management	Feasibility Study for Tourism&Hospital.	THM 321	SDG 8 - SDG 12 - SDG 17
9	Tourism and Hotel Management	Industry Internship (1)	TM 391	SDG 8 - SDG 9 - SDG 12 - SDG 16 - SDG 17
10	Tourism and Hotel Management	Industry Internship 2	TM 392	SDG 8 - SDG 9 - SDG 12 - SDG 16 - SDG 17
11	Tourism and Hotel Management	Tourism and Globalization	TM 472	SDG 1 - SDG 7 - SDG 8 - SDG 10 - SDG 11 - SDG 13 - SDG 16 - SDG 17
12	Tourism and Hotel Management	Tourism Project 1	TM 481	SDG 8 - SDG 9 - SDG 11 - SDG 12 - SDG 17
13	Tourism and Hotel Management	Tourism Project 2	TM 482	SDG 8 - SDG 9 - SDG 11 - SDG 12 - SDG 17
14	Tourism and Hotel Management	Industry Internship 3	TM 493	SDG 8 - SDG 9 - SDG 12 - SDG 16 - SDG 17
15	Tourism and Hotel Management	Industry Internship 4	TM 494	SDG 8 - SDG 9 - SDG 12 - SDG 16 - SDG 17



NO	Faculty	Course name	Course code	SDG
16	Tourism and Hotel Management	Tourism Destination Marketing	TM 316	SDG 1 - SDG 3 - SDG 8 - SDG 11 - SDG 17
17	Tourism and Hotel Management	International Tourism Planning & Develop	TM 474	SDG 1 - SDG 3 - SDG 5 - SDG 8 - SDG 10 - SDG 11 - SDG 17
18	Tourism and Hotel Management	Industry Internship	HM 392 - HM 493 - HM 494	SDG 8 - SDG 17
19	Tourism and Hotel Management	Tourism and Hotel Marketing	THM 221	SDG 8 - SDG 12 - SDG 17
20	Finance and Administrative Sciences	Strategic Management I	BT 741	SDG 8 - SDG 16 - SDG17
21	Finance and Administrative Sciences	Business & Society	BT 743	SDG 1 - SDG 2 - SDG 8 - SDG 12 - SDG17
22	Finance and Administrative Sciences	Strategic Management II	BT 850	SDG 8 - SDG 16 - SDG17
23	Physical Therapy	Arabic Language Skills	UGA 03	SDG 17
24	Physical Therapy	English Language	UGE 00 - UGE 05	SDG 17
25	Physical Therapy	Communication Skills	UC 01 - UCS 01 - UCS 02	SDG 17



Publications that Address Partnerships for the Goals

Title	Authors	Year	Citations	Field-Weighted Citation Impact	Sustainable Development Goals (2023)
Internal corporate branding impact on employees' brand supporting behaviour	Garas, S.R.R. Mahran, A.F.A. Mohamed, H.M.H.	2018	43	2.08	SDG 17
LC–MS/MS and GC–MS profiling as well as the antimicrobial effect of leaves of selected Yucca species introduced to Egypt	El Sayed, A.M. Basam, S.M. El-Naggar, E.-M.A. Marzouk, H.S. El-Hawary, S.	2020	32	1.59	SDG 17
Evaluation of thermal comfort and urban heat island through cool paving materials using ENVI-Met	Faragallah, R.N. Ragheb, R.A.	2022	31	11.46	SDG 11 SDG 17
Study of some gamma ray attenuation parameters for new shielding materials composed of NANO ZnO blended with high density polyethylene	Alsayed, Z. Badawi, M.S. Awad, R. Thabet, A.A. El-Khatib, A.M.	2019	29	1.74	SDG 17
The potentials of egyptian and indian granites for protection of ionizing radiation	Elsafi, M. Alrashedi, M.F. Sayyed, M.I. Al-Hamarneh, I.F. El-Nahal, M.A. El-Khatib, M. Khandaker, M.U. Osman, H. El Askary, A.	2021	23	2.8	SDG 17
Performance evaluation of continuous solar still water desalination system	Kabeel, A.E. Abdelgaied, M. Mahmoud, G.M.	2021	21	3	SDG 6 SDG 7 SDG 17



Title	Authors	Year	Citations	Field-Weighted Citation Impact	Sustainable Development Goals (2023)
Improving urban park usability in developing countries: Case study of Al-Shalalat Park in Alexandria	Abdelhamid, M.M. Elfakharany, M.M.	2020	16	1.98	SDG 11 SDG 12 SDG 17
Trigonella stellata reduced the deleterious effects of diabetes mellitus through alleviation of oxidative stress, antioxidant- and drug-metabolizing enzymes activities	Sheweita, S.A. ElHady, S.A. Hammoda, H.M.	2020	15	1.45	SDG 3 SDG 17
In silico identification of SARS-CoV-2 spike (S) protein-ACE2 complex inhibitors from eight Tecoma species and cultivars analyzed by LC-MS	El Hawary, S.S. Khattab, A.R. Marzouk, H.S. El Senousy, A.S. Alex, M.G.A. Aly, O.M. Teleb, M. Abdelmohsen, U.R.	2020	15	1.01	SDG 3 SDG 17
Hybrid renewable energy/hybrid desalination potentials for remote areas: Selected cases studied in Egypt	El-Hady B Kashyout, A. Hassan, A. Hassan, G. El-Banna Fath, H. El-Wahab Kassem, A. Elshimy, H. Ranjanvepa Shaheed, M.H.	2021	12	0.49	SDG 6 SDG 7 SDG 17
The impact of productive open spaces on urban sustainability: The case of El Mansheya Square – Alexandria	Faragallah, R.N.	2018	10	0.45	SDG 11 SDG 17
Assessment of spatiotemporal patterns of social vulnerability: A tool to resilient urban development Alexandria, Egypt	Waly, N.M. Ayad, H.M. Saadallah, D.M.	2021	10	1.72	SDG 1 SDG 6 SDG 8 SDG 11 SDG 13 SDG 17



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Adaptive Reuse Decision Making of a Heritage Building Antoniadis Palace, Egypt	Elsorady, D.A.	2020	8	3.96	SDG 11 SDG 17
Simultaneous micro-determination of eplerenone and torsemide in their combined tablets using HPTLC-Dual wavelength spectrodensitometric and spectrophotometric methods	Younis, S.E. El-Nahass, S.A. Soliman, S.A. Youssef, R.M.	2020	6	0.49	SDG 3 SDG 17
Study of Dickkopf-1 (DKK-1) in patients with chronic viral hepatitis C-related liver cirrhosis with and without hepatocellular carcinoma	Eldeeb, M.K. Magour, G.M. Bedair, R.N. Shamseya, M.M. Hammouda, M.A.	2020	6	0.3	SDG 3 SDG 17
Identify and prioritize the major influencing causes of automated concrete mixing system for mega construction projects using analytic hierarchy process	Abdel Khalek, H.A. Aziz, R.F. Abdeen, A.H.	2018	5	0.3	SDG 17
Are multisource levothyroxine sodium tablets marketed in Egypt interchangeable?	Abou-Taleb, B.A. Bondok, M. Nounou, M.I. Khalafallah, N. Khalil, S.	2018	5	0.35	SDG 17
Evaluation of Praziquantel Effectiveness After Decades of Prolonged Use in an Endemic Area in Egypt	Ghazy, R.M. Tahoun, M.M. Abdo, S.M. El-Badry, A.A. Hamdy, N.A.	2021	4	0.84	SDG 3 SDG 17



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Angiogenic activities of interleukin-8, vascular endothelial growth factor and matrix metalloproteinase-9 in breast cancer	Abou Shousha, S.A. Hussein, B. Shahine, Y. Fadali, G. Zohir, M. Hamed, Y. Hemedah, M. Baheeg, S.A. Ibrahim, A. El Shannawy, M. Osman, E.M.	2022	4	2.31	SDG 3 SDG 17
Multi-criteria decision making of sustainable adaptive reuse of heritage buildings based on the A'WOT analysis: A case study of cordahi complex, Alexandria, Egypt	Ragheb, G.A.	2021	4	0.47	SDG 8 SDG 11 SDG 12 SDG 16 SDG 17
Comparative Analysis of the Desert and Green Vernacular Architecture in the Oases of Egypt	El Haridi, N.M.A. Ibrahim, M.A. Ayad, H.M. El Sayad, Z.T.	2019	3	0	SDG 7 SDG 12 SDG 17
Mediterranean tapeweed posidonia oceanica (L.) delile, an endangered seagrass species	Bidak, L.M.M. Heneidy, S.Z. Li, W. Fakhry, A.M. El Kenany, E.T. El Askary, H.M. Abd Elkareem, M.S.	2021	3	0.2	SDG 17



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In-vitro and in-vivo performance of locally manufactured glimepiride tablet generics compared to the innovator (Amaryl®) tablets	Abou-Taleb, B.A. Megallaa, M.H. Khalafallah, N.M. Khalil, S.H.	2020	3	0.3	SDG 3 SDG 17
Sustainable Indicators Framework for Strategic Urban Development: A Case Study of Abu Teeg City in Assiut, Egypt	Ragheb, G. El-Wahab, M.A. Ragheb, R.A.	2022	3	0.8	SDG 8 SDG 9 SDG 11 SDG 12 SDG 17
Fundamentals of temporary dwelling solutions: A proposed sustainable model for design and construction	Faragallah, R.N.	2021	3	0.52	SDG 11 SDG 13 SDG 17
Intestinal schistosomiasis among preschool and school-aged children in a rural setting near Alexandria: initiative for elimination	Allam, A.F. Salem, A. Elsheredy, A. Dewair, M.M. Ibrahim, H.S. Farag, H.F. Hagrass, N.A.-E. Shehab, A.Y.	2021	3	0.51	SDG 17
Biomimetic approaches for adaptive building envelopes: Applications and design considerations	Faragllah, R.N.	2021	2	0.38	SDG 12 SDG 17
New Sustainable Agenda for Slums Future Expansion, Case-Study: Ezbiit El-Matabea, Alexandria, Egypt	Ragheb, R.A. Barakat, P.N.	2022	2	0.53	SDG 3 SDG 6 SDG 11 SDG 17



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Development of cellulose acetate membrane performance by carboxylate multiwalled carbon nanotubes	Fadl, E. Noumir, H. Morsy, A. Kandil, S. Ebrahim, S. Khalil, M.M.A.	2022	2	0.51	SDG 17
Achieving Sustainability in Smart Cities & Its Impact on Citizen	Naguib, I.M. Ragheb, S.A.	2022	2	0.53	SDG 8 SDG 9 SDG 11 SDG 17
Relationship between metal pollution and gene expression of insulin-like growth factor II	A.Saad, A. El-Sikaily, A. Kamel, M.A. Kassem, H. Abdel-Latif, M.S.	2018	2	0.18	SDG 3 SDG 14 SDG 17
A Proposed Methodology for Detecting the Urban Footprint in Egypt	Mahmoud, N. Samir, N. Fathi, A. Mohamed, W.	2022	1	2.98	SDG 11 SDG 15 SDG 17
Impact of building regulations on the urban fabric of the city: Case study of Alexandria, Egypt	Samir, N. El Maksoud, R.A.B.D. Maarof, I.	2019	1	0.07	SDG 17
Exergy analysis of a turbo expander: Modeling and simulation	El-Husseiny, A. Farouq, R. Farag, H.A. El Taweel, Y.	2021	1	0.2	SDG 9 SDG 17
Molecular Epidemiology of HIV-1 Virus in Egypt: A Major Change in the Circulating Subtypes	Amer, A.N. Gaballah, A. Emad, R. Ghazal, A. Attia, N.	2021	1	0.2	SDG 3 SDG 17



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Heritage-led urban regeneration: the case of "El-Shalalat District", Alexandria	Abdelhamid, M.M. El Hakeh, A.H. Elfakharany, M.M.	2021	1	0.28	SDG 11 SDG 12 SDG 16 SDG 17
Innovative nano silicone wax coatings for the conservation of bronze artifacts from corrosion	Abdullatef, O.A. Helal, M.A. Anwar, S.M.M.	2022	1	0.26	SDG 17
Sustainability potential for Ginkgo biloba L. plantations under climate change uncertainty: An ex-situ conservation perspective	Bidak, L.M. Heneidy, S.Z. Halmy, M.W.A. El-Kenany, E.T.	2022	1	0.47	SDG 8 SDG 13 SDG 15 SDG 17
A Multi-Criteria Decision for Touristic Revitalization of Historic Waterfront Based on AHP Analysis: A Case Study of Ezbet El-Borg City, Damietta, Egypt	Ragheb, G.A. Ragheb, A.	2021	0	0	SDG 8 SDG 17
Personal values, quality of the tourism experience and destination attributes: The case of Chinese tourists in Egypt	Yacout, O.M. Hefny, L.	2018	0	0	SDG 17
URBAN FABRICS OF HOUSING FORMS AND ITS IMPACT ON HUMAN BEHAVIOR	Fahim, M.H. Soliman, A.M. Saadallah, D.	2022	0	0	SDG 11 SDG 17
Empowering criteria for effective adaptive reuse of heritage buildings in Egypt	Ragheb, G.A. Naguib, I.M.	2021	0	0	SDG 11 SDG 17
Measuring employees' service innovative behaviour in the egyptian tourism companies	Shouk, M.A.A. Hilaly, H.N. Attallah, N.F.	2019	0	0	SDG 9 SDG 17



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Evaluation of Balanced Scorecard Practices and Their Impacts on Employees' Performance in Hotels	Elmetwaly, A.S. Mansour, N.M. Essawy, M.	2022	0	0	SDG 4 SDG 17
Modeling the Intercooling of a Multi-stage Compression in Gas Turbines Using Absorption Chiller	Amin, K.A. ElHelw, M. Elsamni, O.A.	2022	0	0	SDG 13 SDG 17
Investigating the status of egyptian entrepreneurship in an era of revolution and reforms	Ragab, Y. Ragab, M. Monaghan, S.	2020	0	0	SDG 17
Biodiversity Assessment in Tecoma Species Using Micro-morphometric, Phytochemical and Molecular Descriptors Aided by Multivariate Analysis	El Hawary, S.S. El Senousy, A.S. Marzouk, H.S. Alex, M.G.A. Khattab, A.R.	2022	0	0	SDG 17
Revitalization Of Historical Urban Parks Using A Smart Approach	Abdelhamid, M.M.	2019	0	0	SDG 8 SDG 11 SDG 12 SDG 17
CDIO IMPLEMENTATION FOR MECHANICAL COURSES AT PHAROS UNIVERSITY IN ALEXANDRIA	Shibl, A. Anwar, M.N. Wagdi, W. Ali, M.G.A.	2020	0	0	SDG 4 SDG 17
Characterizing Ecosystem Services to Human Well-Being in Groundwater Dependent Desert Environments	King-Okumu, C. Abdelkhalek, A. Salem, B.	2021	0	0	SDG 6 SDG 17
THE IMPACT OF PASSIVE ARCHITECTURAL DESIGN SOLUTIONS ON COOLING LOADS OF BUILDINGS IN HOT DRY CLIMATE: ANALYSIS OF PERFORMANCE IN SIWA OASIS	Faragallah, R.N.	2022	0	0	SDG 17
Evaluating the legibility of complex buildings: A quantitative model for indoor wayfinding	Ahmed, S.H. Taha, D.S. Hasan, A.E.	2020	0	0	SDG 17



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The influence of social media marketing on consumer purchase intention of fresh produce in Egypt	Ragab, I. Ragab, M.A.F.	2020	0	0	SDG 17
Finite Element Modeling for Nanoparticles-Induced Hyperthermia Treatment of Hepatic Carcinoma	Badawi, M.I. Saad, M.M. Moustafa, M.H. Mohamed, E.I.	2022	0	0	SDG 3 SDG 17
Microbiological study of certain genes associated with biofilm forming capacity of methicillin resistant Staphylococcus aureus in Egypt: An eye on nifedipine repurposing	Ali, G.H. Seiffein, N.L.	2022	0	0	SDG 3 SDG 17
Jasonia montana Extracts Stimulate Cell Differentiation in HCT-116 and Caco-2 Cell Lines	Aidy, E.A. Abdallah, Z.F. Ahmed, W.A. El-Gendy, S.M. Abou-Bakr, A.A. Omran, M.M. Al-Shafie, T.A.	2022	0	0	SDG 3 SDG 17