



THE Impact Ranking SDG13 Report

SDG

13

Climate
Action



M. H. Mohyeldin

13.1. Activities

1. 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 researches, which meet the journal's publishing requirements.

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

2. 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.

[Climate Conference](#)

3. Pharos University organized towards sustainable tomorrow competition



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. It is worth mentioning that 6 projects participated in this competition from Electrical Engineering, Mechanical Engineering, Petrochemical Engineering Departments. The judging panel was comprised of:

- Mona Gamal Eldeen, the Dean of the School of Energy Resources, Environment, Chemical and Petrochemical Engineering at the Egypt-Japan University of Science and Technology. (Head of the judging panel)
- Wael Almaghlany, the Head of Mechanical Engineering Department at Alexandria University.
- Boshra Salem, the Consultant of the President of the University for International Relations and Projects.
- Mohamed Naeem, the Vice Dean of the Faculty of Engineering.

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.

Pharos University Organized “Towards Sustainable Tomorrow” Competition

4. Lecture about Fuel Cells to the Petrochemical Engineering Department



In light of the significant development the world has been witnessing recently in the development and production of hybrid and electric vehicles (HEV/EV) plus the recent developments in high voltage battery technologies due to its environmental advantages, the Petrochemical Engineering Department organized a lecture on fuel cells.

This lecture was held on Monday, May 23, 2022 and delivered by Prof. Dr. Alana Al-Sahrawi, the globally-renowned figure in the field of electric and hybrid cars in the United States of America. as part of the “Energy Conservation” course.

Further, the lecture – which was part of the “Energy Conservation” course – tackled the various technical aspects of future vehicle technologies and the extent to which fuel cells can be utilized in operating these vehicles. It also aimed at providing the graduates of the Petrochemical Engineering Department with the skills required for the labor market.

[Lecture about Fuel Cells to the Petrochemical Engineering Department](#)

5. Sustainability Competition



Within the sustainability week launched by the Tourism Department, 3rd year students in the tourism impact and sustainability course – as part of their final dissertation – presented a set of creative ideas. These ideas reflected the concept of sustainability and its significance for tourist destinations. One of these ideas was about living a sustainable and climate-friendly life

The students were divided into a group of competing teams, under the supervision of Assoc. Prof. Dr. Ghada Bassiouni, and Prof. Amr Moroccan. Each team was keen on implementing an idea that reflects the concept of sustainability in tourist destinations.

This was done by designing posters, fliers, and magazines, that highlighted the extent to which they have acquired the learning skills targeted in the course specification.

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



13.2. Courses in the curricula

No	Faculty in Pharos University	Course name	Course code	SDG of relevance	Topics in each course
1	Pharmacy	Environment and sustainability	PMC E01	SDG13	Sustainable ecosystem services
2	Pharmacy	Phytotherapy	PG 305	SDG13	Sustainable industry of Natural products
3	Tourism	Tourism Transportation	TM 312	SDG13	Co2 and emission reduction
4	Engineering	Introduction to environmental engineering	EP 389	SDG13	The course introduces engineering aspect with complete environmental assessments of the impacts
5	Engineering	Pollution control in petrochemical industries	EP 392	SDG13	The course focuses on emissions form petrochemical industries and sustainable control mechanisms