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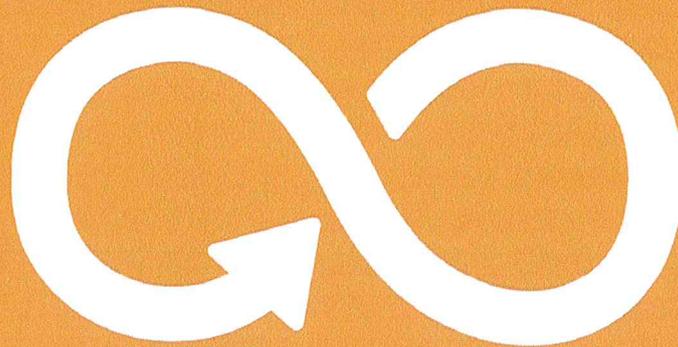


THE IMPACT RANKING

SDG12

**RESPONSIBLE CONSUMPTION AND
PRODUCTION**

**12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION**



SDG12- Responsible Consumption and Production

12.1. Conferences and Workshops

- On December 10, 2019 the faculty of Engineering organized a workshop on “ Sustainable Development” . The workshop included It included defining the concept of sustainable development, how to utilize and preserve resources, and the state's vision for implementing sustainable development
- On April 2019 through the 17th , and Within the framework of Pharos University's interest in contributing to the achievement of sustainable development goals in education and scientific research, Pharos University had the honor to receive Dr. Fredrik Gröndahl - Head of the Department of Sustainable Development and Environmental Science and Engineering at the Royal Institute of Technology in Sweden KTH. The workshop began daily with a general lecture on the general sustainability concepts. The lectures delivered covered topics on climate change, organic pollutants, the development of the concept of sustainability in general, as well as its applications in the field of transportation

12.2. Projects:

- In the context of transferring Pharos University to be a sustainable university, there are several practices for ensuring the disposal of the wastes produced form the university in a sustainable way. The staff of the faulty of applied health sciences technology proposed a project to support sustainability aspects in the university for implementing recycling activities and take advantage of all that can be recycled and transformed from an ineffective product to an effective product as follows. The project took into consideration the following steps 1- Transferring all the amount of water consumption from sewage, laboratories and rainwater drainage to a treatment plant at the university to completely re-use it (zero waste). 2- Recycling of all waste to produce natural fertilizer for use in the cultivation of the university gardens to produce medicinal plants (thyme - mint - basil - flax seed - sesame -). 3- Recycling of some of the wastes resulting from students' use as packaging and others remains to work in the aesthetic material with the involvement students of the Faculty of Fine as graduation projects .
- The activities of Pharos University on recycling was reflected on the students, and they designed their graduation project on Recycling of Fabrics. The summary of the project is below

Project name	Summary
1. Recycling of fabric scrap	The importance of recycling textiles is increasingly being recognized. The purpose. Once in landfills, natural fibers can take hundreds of years to decompose. They may release methane and CO2 gas into the atmosphere. Additionally, synthetic textiles are designed not to decompose. In the landfill, they may release toxic substances into groundwater

	and surrounding soil. The synthetic fiber raw materials totally imported from outside as polyester and nylon and the annual consumption is 440 thousand tons and the recycling processes are not applicable, so the new technology for recycling this scrap is value added materials
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12.3. Activities

- The university has a mechanism for handling solid wastes and hazardous substances. This is carried out according to the instructions of the maintenance department at the university and the university technicians. The directory of environmental affairs at the university takes the responsibility of supplying all the material needed for handling the wastes, e.g.. gloves, masks, gowns, as well special safety boxes (red in color) , where all the sharp materials are disposed. The experimental animal remains are collected in special bags and placed in a refrigerator till collected. The process of disposal starts by separating the wastes in place, and placing them in the boxes identified till the collection stage and final disposal
- The university has signed two binding contracts with specialized companies to deal with the hazardous wastes includes wastes form labs and clinics. These companies were selected according to their environmental portfolio that ensure sustainability ongoing practices. A copy of these contracts are in Appendix 1
- All the procedures of disposing solid and liquid wastes are registered in the annual Environmental university portfolio that identify the number of employees, the number of faculties and departments, the number of clinics, types of wastes and date production and collection. This portfolio is registered at the university for internal use, and at the governorate of Alexandria for assessments and monitoring. (Appendix 2)

12.4. Courses in University Curricula

There are 15 courses in the curricula of 6 faculties dealing with consumption production concepts. The courses are provided in the table below

	Faculty	Course name	Course code	SDG-relevancy	Topic
1	Applied Health Sciences Technology	Development and Regulation of Medical Products	MGDR-101	12	Responsible consumption and production methods
2	Applied Health Sciences Technology	Ethical and Legal Issues in Health Fields	MGME-101	12	Wellbeing and living standards
1	Pharmacy	Environment and sustainability	PMC E01	12	Sustainable ecosystem services
2	Pharmacy	Project in Pharmacognosy & Natural Products	PG E08	12	Sustainable use of natural resources

3	Pharmacy	Good Manufacturing Practices	PPC E02	12	Responsible production consumption techniques in pharmaceutical industry
4	Pharmacy	Natural Cosmetics	PGD E01	12	Sustainable use of natural resources
5	Pharmacy	Herbal medicine	PGD E02	12	Sustainable use of natural resources
6	Pharmacy	Sustainability in Therapeutics	PLD E03	12	Sustainable use of natural resources
1	Tourism	Consumer Behavior in Tourism and Hospitality (Elective)	THM 162	12	Responsible consumption and production methods
2	Tourism	Current issues in food service (Elective)	HM 336	12	Healthy food for wellbeing, consumption reduction
3	Tourism	Safe Food Service Management	HM 434	12	Healthy food for wellbeing, consumption reduction
1	Physical Therapy	Nutrition	PTBA 570	12	Health food for balanced nutrition
1	Engineering	Energy Systems	EE 271	12	Studying the availability of using PV arrays in residential & commercial areas
2	Engineering	Material science	EP 217	12	This course introduces the students to Classification of engineering materials, atomic and molecular structure. The course focuses on polymer properties and modification for special applications.
3	Engineering	Introduction to environmental engineering	EP 389	12	The course introduces engineering aspect with complete environmental assessments of the impacts
1	Business	Consumer behavior	BF 746	12	The course focuses on issues related to the behavior of consumption and production and means to rationalize consumption

12.5. Publications

Chemical profiling, biostatic and biocidal dynamics of *Origanum vulgare* L. essential oil (2019) AMB Express, 9 (1), art. no. 41, . Cited 6 times.

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