



# THE Impact Ranking SDG12 Report

SDG

# 12

Responsible  
Consumption and  
Production



## SDG 12 Responsible Consumption and Production

Much of the world's economy is based around producing things for consumption. This drives the engine of industry. If we want the world to develop sustainably, we need to understand how to be more responsible at both ends of this cycle. This means promoting resource and energy efficiency, having a sustainable infrastructure, and providing access to basic services for all. Efficient use of resources and the minimization of waste are explored.

### Responsible Consumption and Production Activities Workshops and conferences

#### Recycling Fabric Wastes and Scraps to Achieve Sustainability Workshop

<https://www.pua.edu.eg/?s=Recycling+Fabric+Wastes+and+Scraps+to+Achieve+Sustainability+Workshop>

As part of PUA's student activities program, the Faculty of Arts and Design organized a workshop entitled "Recycling Fabric Wastes and Scraps to Achieve Sustainability." This workshop was prepared by Dr. Marwa Issa, Lecturer in the Fashion Design Department.

Despite the increasing attention to environmental issues and conservation, fabric scraps are still being wasted throughout the various stages of design and execution. Till today, the surplus in fabric scraps has no clear mechanism to utilize it.

Therefore, this workshop presents a new vision for utilizing the remnants of fabric waste and scraps. This can be done through merging the various patterns of the fabrics with basic materials, auxiliary materials, while observing compatibility.



## Recycling Pottery Using Environment-Friendly Colorants Workshop

<https://www.pua.edu.eg/?s=Recycling+Pottery+Using+Environment-Friendly+Colorants+Workshop>

The Faculty of Art and Design organized a workshop entitled “Recycling Pottery Using Environment-Friendly Colorants.” The workshop took place on Tuesday, April 19, 2022, in Room B431. It was delivered by Dr. Sherine Mokhtar, who gave a definition of this industry, its significance, and the benefits of storing food and drinks inside them. The aim of this workshop was to encourage the use of environmentally friendly products and re-producing them in an innovative artistic way.





## “Significance of a Vegetarian Diet on Health and Environment” Seminar

<https://www.pua.edu.eg/?s=%E2%80%9CSignificance+of+a+Vegetarian+Diet+on+Health+and+Environment%E2%80%9D+Seminar>

The Faculty of Health and Applied Science Technology organized a seminar entitled “Significance of a Vegetarian Diet on Health and Environment” on Tuesday 19/4/2022. The seminar was held under the supervision of Prof. Dr. Ezzat Hassan, Dean of the Faculty of Health and Applied Science Technology, and Prof. Dr. Hamdy Al-Wakeel, Vice Dean for Education and Student Affairs, and in the presence of several Faculty students. This event was held as part of the activities of the Scientific Committee of Student Activities Department. Dr. Duha Abu Zahra and students/ Muhammad Essam and Nada Hamida participated in the seminar by making a poster on the food pyramid for vegetarians. Students/ Rodina Adly and Sandy Mohamed also participated by explaining the benefits and harms of vegetarian diet.





## Field Visit to the Alexandria Petroleum Company

<https://www.pua.edu.eg/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 several 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.



## Faculty of Engineering Organizes a Workshop: Industry 4.0 and Digital Twinning in Effective Teaching

<https://www.pua.edu.eg/faculty-of-engineering-organizes-a-workshop-industry-4-0-and-digital-twinning-in-effective-teaching/>

Due to the implications of industry 4.0, major changes occurred to the businesses that strongly affected manufacturing processes and competitive features of local and international companies, industries, and systems.

In this regard, Faculty of Engineering, PUA organized a workshop that aims at contributing in the discussion on the effect of Industry 4.0 through surveying academic and industrial viewpoints. This can be done through the application of the technologies of the 21st century Industry 4.0. These technologies include Smart Manufacturing, Industrial Internet of Things, PC-based Controls, Autonomous Things (AuT), AR/VR, Artificial Things, which are considered the core of Industry 4.0.

The workshop was followed by a general lecture for the interested students to discuss a variety of major scientific topics such as (AI, Cloud Computing, Self-Driving Cars) and their relevance to the job market.





The Faculty of Medical Sciences, however; provided awareness about the proper nutrition and healthy foods, in addition to distributing some gifts to children.

Moreover, the event included theatrical, musical, wizard, and Nubian skits were performed. At the end of the ceremony, meals and clothes were distributed, and, as followed in the annual tradition, commemorative group photos were taken.



## Intra Africa 2063 Competition

<https://www.pua.edu.eg/intra-africa-2063-competition/>

Pharos University in Alexandria organizes a virtual “Design thinking and Ideation camp” through E-Club PUA in cooperation with the African Union and the Egyptian Academy of Scientific Research and Technology, the camp targets students and graduates of PUA and African Union universities.

The camp is held from 26-29 July 2021 aiming at motivating African youth towards “Social Entrepreneurship” to trigger innovative ideas that serve the goals of development and sustainability in the African societies.

**Intra-Africa 2063 Competition**  
virtual workshops hand in hand by PUA, ASRT & AAU  
26/7 - 29/7/2021

Free Event - Free Registration - Attendance Certificate - Held in English  
Registration deadline 13/7 - Acceptance confirmation e-mail 20/7

The event objectives are to create innovative scientific ideas or research projects in order to serve African societies through series of four days workshops that serve one of the goals of 2063 agenda .

**“ The Establishment of an AFRICAN Digital, Distance Learning University Social ENTREPRENEURSHIP ”**

Specialized trainers will qualify the students to work on innovative ideas. The teams will pitch their ideas in front of a judging panel to select 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> place winners.

**Prizes**  
Platinum prize : Language course + Soft skills course  
Golden prize : Soft skills course  
Silver prize : Traditional Egyptian Kibben course or Bubblegum and Yanki Sweet Coating

registration link : <https://forms.gle/2F6vutak1e4d0t8>



## Courses that Support Responsible Consumption and Production

No	Faculty in Pharos University	Course name	Course code	SDG of relevance
1	Applied Health Sciences Technology	Development and Regulation of Medical Products	MGDR-101	SDG12
2	Applied Health Sciences Technology	Ethical and Legal Issues in Health Fields	MGME-101	SDG12
3	Pharmacy	Environment and sustainability	PMC E01	SDG12
4	Pharmacy	Project in Pharmacognosy & Natural Products	PG E08	SDG12
5	Pharmacy	Good Manufacturing Practices	PPC E02	SDG12
6	Pharmacy	Natural Cosmetics	PGD E01	SDG12
7	Pharmacy	Herbal medicine	PGD E02	SDG12
8	Pharmacy	Sustainability in Therapeutics	PLD E03	SDG12
9	Tourism	Consumer Behavior in Tourism and Hospitality (Elective)	THM 162	SDG12
10	Tourism	Current issues in food service (Elective)	HM 336	SDG12
11	Tourism	Safe Food Service Management	HM 434	SDG12
12	Engineering	Energy Systems	EE 271	SDG12
13	Engineering	Material science	EP 217	SDG12
14	Engineering	Introduction to environmental engineering	EP 389	SDG12
15	Business	Consumer behavior	BF 746	SDG12
16	Mass Communication	Introduction to Economics	GEN 103_M	SDG 8 - SDG 12
17	Mass Communication	Marketing and media strategies	MC 302	SDG 12
18	Mass Communication	Advertising design and production	MC 306	SDG 12
19	Mass Communication	Advertising Production	PRAD 303	SDG 8 - SDG 12
20	Mass Communication	Advertising Campaigns Production	PRAD 400	SDG 12
21	Mass Communication	Promotions Management	PRAD 401	SDG 12
22	Mass Communication	Public Communication Campaigns	PRAD 403	SDG 12





No	Faculty in Pharos University	Course name	Course code	SDG of relevance
23	Mass Communication	Reputation management	PR 400	SDG 12
24	Mass Communication	Planning and sponsoring the event	PR 305	SDG 12
25	Mass Communication	Managing crisis in Public Relations	PR 306	SDG 12 - SDG 17
26	Tourism and Hotel	Franchising in Tourism and Hospitality	THM 211	SDG 9 - SDG 12
27	Tourism and Hotel	Quality Mgt. in Tour&Hospital Enterprise	THM 271	SDG 8 - SDG 9 - SDG 11 - SDG 12
28	Tourism and Hotel	Consumer Behavior in Tour. & Hospitality	THM 162	SDG 8 - SDG 12
29	Tourism and Hotel	Customer Service in Tourism&Hospitality	THM 362	SDG 5 - SDG 12
30	Tourism and Hotel	Feasibility Study for Tourism&Hospital.	THM 321	SDG 8 - SDG 12 - SDG 17
31	Tourism and Hotel	Ecotourism	TM 371	SDG 1 - SDG 3 - SDG 5 - SDG 6 - SDG 10 - SDG 11 - SDG 12 - SDG 15
32	Tourism and Hotel	Industry Internship (1)	TM 391	SDG 8 - SDG 9 - SDG 12 - SDG 16 - SDG 17
33	Tourism and Hotel	Industry Internship 2	TM 392	SDG 8 - SDG 9 - SDG 12 - SDG 16 - SDG 17
34	Tourism and Hotel	Events Managment	TM 411	SDG 11 - SDG 12



No	Faculty in Pharos University	Course name	Course code	SDG of relevance
35	Tourism and Hotel	Tourism Project 1	TM 481	SDG 8 - SDG 9 - SDG 11 - SDG 12 - SDG 17
36	Tourism and Hotel	Tourism Project 2	TM 482	SDG 8 - SDG 9 - SDG 11 - SDG 12 - SDG 17
37	Tourism and Hotel	Industry Intership 3	TM 493	SDG 8 - SDG 9 - SDG 12 - SDG 16 - SDG 17
38	Tourism and Hotel	Industry Intership 4	TM 494	SDG 8 - SDG 9 - SDG 12 - SDG 16 - SDG 17
39	Tourism and Hotel	Current Issues in Food Service Industry	HM 336	SDG 2 - SDG 3 - SDG 12
40	Tourism and Hotel	Convention and Meeting Planing	TM 461	SDG 11 - SDG 12
41	Tourism and Hotel	Safe Food Service Management	HM 434	SDG 3 - SDG 6 - SDG 12
42	Tourism and Hotel	Hospitality Project 1 (continued)	HM 481	SDG 12
43	Tourism and Hotel	Introduction to Economics	GEN 101_T	SDG 3 - SDG 8 - SDG 12
44	Tourism and Hotel	Tourism and Hotel Marketing	THM 221	SDG 8- SDG 12- SDG 17
45	Tourism and Hotel	Tourism and Hotel Economics	THM 241	SDG 3 - SDG 8 - SDG12
46	Tourism and Hotel	Current Issues in Food Service Industry	HM 336	SDG 2 - SDG 3 - SDG 12
47	Tourism and Hotel	Tourism and the Invironment	TM 314	SDG11 - SDG12
48	Tourism and Hotel	Hospitality Project 1 (continued)	HM 481	SDG 12
49	Arts and Design	Field Training	FT 001	SDG 4 - SDG 5 - SDG 9 - SDG12
50	Arts and Design	Graphic Art	AD 312	SDG 12
51	Arts and Design	Technology of Painting	DP 461	SDG 12
52	Arts and Design	Productivity printing technology (1)	G 365	SDG 9 - SDG12
53	Arts and Design	Productivity printing technology (2)	G 366	SDG 9 - SDG12



No	Faculty in Pharos University	Course name	Course code	SDG of relevance
54	Arts and Design	Graduation Project Research	GD 581	SDG 6 - SDG 8 - SDG 11 - SDG 12 - SDG 13
55	Arts and Design	Graduation Project	GD 582	SDG 6 - SDG 8 - SDG 11 - SDG 12 - SDG 13
56	Arts and Design	Finishing Materials Technology	D 364	SDG 12
57	Arts and Design	Furniture Design	ID 425	SDG 9 - SDG 11 - SDG 12
58	Arts and Design	Interior Architecture Design (3)	ID 521	SDG 11 - SDG 12
59	Arts and Design	Mural Painting	MD 421 - MD 422 - MD 511 - MD 521	SDG 12
60	Arts and Design	Restoration of mural painting	MD 561	SDG 11 - SDG12
61	Arts and Design	Graduation Project Research	MD 581	SDG 11 - SDG12
62	Arts and Design	Graduation Project	MD 582	SDG 12
63	Finance and Administrative Sciences	Marketing	BM 105	SDG 12
64	Finance and Administrative Sciences	Operations Management	BT 423	SDG 11 - SDG12
65	Finance and Administrative Sciences	Managing Marketing strategy	BM 530	SDG 12
66	Finance and Administrative Sciences	Research Project I	BT 742	SDG 1 - SDG 2 - SDG 8 - SDG 9 - SDG 12 - SDG 13 - SDG 16
67	Finance and Administrative Sciences	Business & Society	BT 743	SDG 1 - SDG 2 - SDG8 - SDG 12 - SDG17
68	Finance and Administrative Sciences	Consumer Behavior	BT 746	SDG 12
69	Finance and Administrative Sciences	Strategic Marketing	BM 854	SDG 11 - SDG12



No	Faculty in Pharos University	Course name	Course code	SDG of relevance
70	Finance and Administrative Sciences	Marketing Communication	BM 855	SDG 8 - SDG 12
71	Finance and Administrative Sciences	Marketing Research	BM 638	SDG 8 - SDG 12
72	Arts and Design	Cinema Scenery Design	TD 422	SDG 9 - SDG 12
73	Arts and Design	Theatrical Scenery Design	TD 423 - TD 424	SDG 7 - SDG 9 - SDG 12
74	Arts and Design	Costume Design	TD 427	SDG 9 - SDG 12
75	Arts and Design	Implementation Models (Maquette)	TD 561	SDG 9 - SDG 12
76	Arts and Design	Graduation Project Research	TD 581	SDG 7 - SDG 9 - SDG 11 - SDG 12
77	Arts and Design	Graduation Project	TD 582	SDG 7 - SDG 9 - SDG 11 - SDG 12
78	Arts and Design	Sewing Techniques	FD 261	SDG 12
79	Arts and Design	Industrial Garments' Machines and Equipm	FD 262	SDG 12
80	Arts and Design	Designing and Making Childrens' Clothes	FD 321	SDG 12
81	Arts and Design	Designing and Making Home Clothes	FD 322	SDG 12
82	Arts and Design	Design and Textile Printing	FD 323	SDG 12
83	Arts and Design	Advanced Sewing Techniques	FD 361	SDG 12
84	Arts and Design	Designing & Making Outdoor Clothes (M&F)	FD 421	SDG 12
85	Arts and Design	Designing & Making Special Needs Clothe	FD 422	SDG 12
86	Arts and Design	Quality Control	FD 431	SDG 12
87	Arts and Design	Modern Textiles Technology	FD 432	SDG 12
88	Arts and Design	Art of Marketing Clothes	FD 531	SDG 12
89	Arts and Design	Digital Design(3)	FD 551	SDG 12
90	Arts and Design	Special Professions Clothes	FD 561	SDG 12
91	Arts and Design	Smart Clothes Technology	FD 563	SDG 12



No	Faculty in Pharos University	Course name	Course code	SDG of relevance
92	Arts and Design	Graduation Project Research	FD 581	SDG 4 - SDG 11 - SDG 12
93	Arts and Design	Graduation Project	FD 582	SDG 4 - SDG 11 - SDG 12
94	Arts and Design	Technical Equipment	D 366	SDG 6 - SDG 9 - SDG 12
95	Arts and Design	Criticism & Analysis in Interior Design	ID 531	SDG 4 - SDG 9 - SDG 12

### Publications that Address Responsible Consumption and Production

Title	Authors	Year	Citations	Field-Weighted Citation Impact	Sustainable Development Goals (2023)
Oil spill clean-up using combined sorbents: a comparative investigation and design aspects	Tayeb, A.M.   Farouq, R.   Mohamed, O.A.   Tony, M.A.	2020	32	2.23	SDG 9   SDG 12   SDG 14
LEED v4.1 operations & maintenance for existing buildings and compliance assessment: Bayt Al-Suhaymi, Historic Cairo	ElSorady, D.A.   Rizk, S.M.	2020	17	2.06	SDG 7   SDG 11   SDG 12
Improving urban park usability in developing countries: Case study of Al-Shalalat Park in Alexandria	Abdelhamid, M.M.   Elfakharany, M.M.	2020	16	1.94	SDG 11   SDG 12   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	0.46	SDG 8   SDG 11   SDG 12   SDG 16   SDG 17



Title	Authors	Year	Citations	Field-Weighted Citation Impact	Sustainable Development Goals (2023)
Potential cardioprotective effect of octreotide via NOXs mitigation, mitochondrial biogenesis and MAPK/Erk1/2/STAT3/NF-k $\beta$ pathway attenuation in isoproterenol-induced myocardial infarction in rats	Khalifa, A.A.   El Sockary, N.H.   Elblehi, S.S.   Diab, M.A.   Ali, M.A.	2022	4	1.59	SDG 3   SDG 7   SDG 9   SDG 12
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
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	0.76	SDG 8   SDG 9   SDG 11   SDG 12   SDG 17
Utilization of electric arc furnace dust as a filler for unsaturated polyester resin	Gamea, E.G.   Anwar, A.   Ezzat, A.A.   El-Rafey, M.E.	2022	3	0.64	SDG 12
Biomimetic approaches for adaptive building envelopes: Applications and design considerations	Faragllah, R.N.	2021	2	0.37	SDG 12   SDG 17
Heritage-led urban regeneration: the case of "El-Shalalat District", Alexandria	Abdelhamid, M.M.   El Hakeh, A.H.   Elfakharany, M.M.	2021	1	0.27	SDG 11   SDG 12   SDG 16   SDG 17
Sustainable Touristic path toward cultural identity	Ragheb, R.A.   Naguib, I.M.	2020	0	0	SDG 8   SDG 11   SDG 12
Revitalization Of Historical Urban Parks Using A Smart Approach	Abdelhamid, M.M.	2019	0	0	SDG 8   SDG 11   SDG 12   SDG 17



Title	Authors	Year	Citations	Field-Weighted Citation Impact	Sustainable Development Goals (2023)
Optimization of International Rating System Evaluation for Adaptive Reuse Projects	Helal, H.M.   Maarouf, I.   Nassar, D.M.	2022	0	0	SDG 7   SDG 11   SDG 12   SDG 13
The green roof effect on the seismic response of RC frame structures	Elhout, E.A.	2022	0	0	SDG 7   SDG 12
Recycling of Conditioned Alum Sludge Use as an Adsorbent for Decolorization of Effluents From the Textile Industry	Tayeb, A.   Abdelmoez, W.   Farouq, R.   Gedawy, H.	2022	0	0	SDG 6   SDG 9   SDG 12
Treatment by agricultural by-products of Industrial effluents polluted with heavy metals	Tayeb, A.M.   Farouq, R.   Mahmoud, M.A.   Daher, A.M.   Amer, T.E.   Magdy, Y.H.	2022	0	0	SDG 6   SDG 11   SDG 12