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MISR UNIVERSITY FOR SCIENCE & TECHNOLOGY



SDG. 17 (Partnerships for the Goals)

17.4 Education for the SDGs.

17.4.2 Education for SDGs: specific courses on sustainability





SDG. 11 (Sustainable Cities and Communities)

Metrics and indicators

Underlined blue text directs to supporting evidence

17.4 Education for the SDGs.

17.4.2 Education for SDGs: specific courses on sustainability

1- Courses addressing sustainability:

Misr University of Science and Technology is fully devoted to delivering a wide array of sustainability courses in 2022, spanning approximately 125 courses across three major fields: STEM, Medicine, and Arts & Humanities/Social Sciences. Notably, **the Arts & Humanities/Social Sciences Colleges** play a significant role in driving this effort. Take, for instance, the College of Special Education, which offers courses addressing a diverse range of disabilities, including physical, auditory, and visual impairments. These courses directly align with Sustainable Development Goals (SDGs), such as reducing inequality and enhancing the quality of education. A few examples of these notable courses are "Inclusion of the Physically Disabled," "Childhood Legislation for Special Needs," and "Individual Differences." Similarly, the College of Archaeology & Tourism Guidance provides courses that focus on heritage preservation, covering topics like "Treatment and Restoration of Wood and Archaeological Plants," "Management of Restoration Projects at Archaeological Sites," and "Preventive Conservation of Excavation Discoveries." These courses underscore the importance of safeguarding



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FOR SCIENCE & TECHNOLOGY

cultural heritage and preserving it for future generations, showcasing the university's strong commitment to sustainability.

STEM Sector Colleges plays a vital role in sustainability education, with a specific emphasis on energy, water, and waste. Essential courses such as "Environmental Biotechnology," "Solar Energy," "Biofuel," "Renewable Energy Sources," and "Environmental Pollution Control" and others are instrumental in developing students' understanding and application of sustainable principles. Teaching these courses is crucial, as they equip students with the knowledge and skills needed to address urgent global challenges. Through these subjects, students gain a deep comprehension of utilizing renewable resources, mitigating environmental pollution, and creating innovative solutions for sustainable energy and waste control. This knowledge is indispensable for both academic and professional advancement, and it plays a vital role in shaping a sustainable future.

In the **Medical sector Colleges**, there is an active contribution to sustainability education through specializations like "Community Medicine" and courses such as "Infection Control," "Industrial Pharmacy," "Pharmaceutical Legislations and Practice Ethics," "Human Rights," and "Environmental Analysis." These courses equip future healthcare professionals with the knowledge and skills required to promote sustainable healthcare practices and enhance community well-being.

In this comprehensive manner, Misr University of Science and Technology showcases its unwavering dedication to the SDGs by providing specialized courses and educational opportunities across a diverse range of disciplines. This commitment cultivates a culture of sustainability among its students



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FOR SCIENCE & TECHNOLOGY

and significantly contributes to the global objective of sustainable development.

2- Degrees Related to Sustainability:

Misr University for Science and Technology features a College of Biotechnology, offering diverse [undergraduate](#) and [postgraduate programs](#) dedicated to environmental sustainability, such as the **Master's Degree in Environmental and Agricultural Biotechnology**.

College of Biotechnology
Bachelor's degree in Biotechnology
Master's degree in Medical and Pharmaceutical Biotechnology
Master's degree in Environmental and Agricultural Biotechnology

3- Research and Development Center

MUST University recognizes the paramount importance of sustainability development and has established a dedicated research center, "[The Research and Development Center](#)" with a strong focus on sustainability research and community consultation.

This center also actively contributes to academic endeavors by offering a range of undergraduate and postgraduate courses, including Applied Biochemistry, Experimental Biochemistry, Immunology, and Molecular Diagnosis of Human Diseases. Moreover, it provides essential facilities to support Graduation Research Projects within the Biotechnology Research program.



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The Research and Development Center comprises three research units:

1. Environmental Sustainability Research Unit
2. Soil & Water Research Unit
3. Molecular Biology & Genetic Engineering Unit

Furthermore, the center operates with three distinct departments, each serving specific functions:

1. Training and Scientific Seminars Department
2. Service Analysis and Scientific Consultations Department
3. Quality Control Department

This comprehensive approach underscores MUST University's commitment to sustainability, research, education, and community engagement.