

15.2.4 Educational Programmes on Ecosystems

2023–2024

Here are educational programmes (paid and free) from Arab Academy for Science, Technology & Maritime Transport (AASTMT) that relate to ecosystems/biodiversity. Our 2021-2026 strategic plan has dedicated one of its four main goals to sustainability, where The AASTMT commits to fulfil its societal responsibility and to align itself to the SDGs.

Free / Community-Oriented Programmes:

International Workshop on Green Environment and Green Tourism 2024

The workshop reviewed the importance of the concept of green tourism, improving ways to benefit from tourism, overcoming obstacles that reduce tourism benefits, and the importance of supporting efforts to involve communities in promoting the concept of green tourism, while improving infrastructure and reducing the side effects of economic activities associated with tourism. It educates participants about ecosystem-based tourism and biodiversity protection.

AASTMT News

[Home](#) > [News](#) > AASTMT Participation in the International Workshop on Green Environment and Green Tourism



[International Workshop on Green Environment and Green Tourism](#) on AASTMT webpage

Environmental Monitoring, Modelling, and Training Research Facilities

Offers *training* and *collaborative research* with communities, industries, and government bodies on environmental monitoring, climate, and sustainability. These activities support public education and awareness on land, water, and air ecosystems.



[Environmental Monitoring, Modelling, and Training Research](#) on AASTMT webpage

Aquaculture Research Center — High School Aquaponics Collaboration

The center cooperates with a high school to build aquaponics systems (integration of aquatic and plant ecosystems). This collaboration is educational and community-oriented. The center aims to create models of new development projects in the field of aquaculture by studying scientific problems in aquaculture projects and developing appropriate solutions. The center works with 3 integrated tasks (water- energy and food).

Aquaculture Research Center (2010-present)



The center aims to create models of new development projects in the field of aquaculture by studying scientific problems in aquaculture projects and developing appropriate solutions. The center works with 3 integrated tasks (water- energy and food):



1- Production of Biodiesel from waste using cooking oil:

[Aquaculture Research Center](#) on AASTMT webpage

Oil Spill Combating Training Center

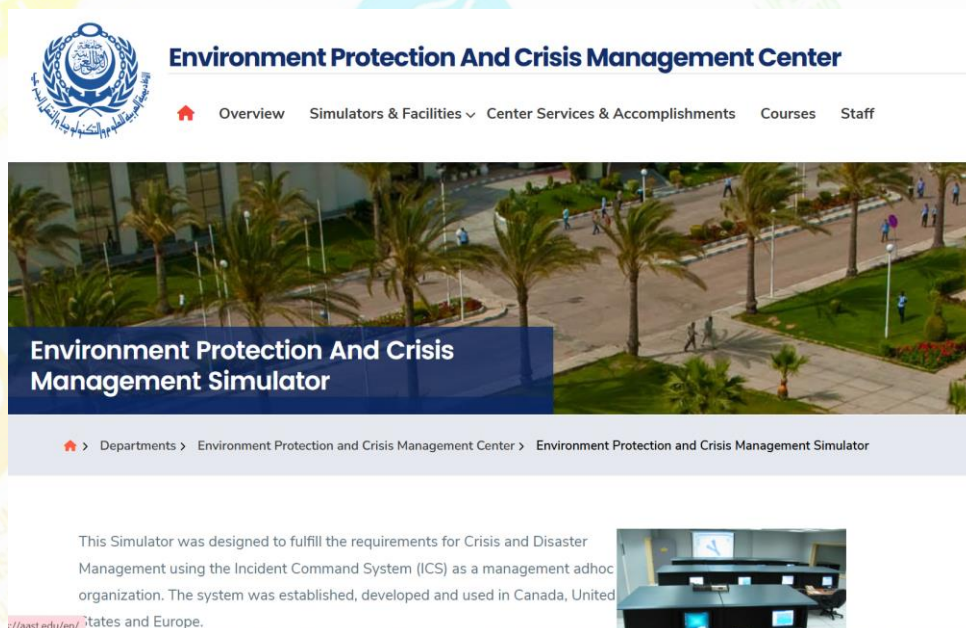
Provides IMO model courses and training on managing marine pollution and ecosystem protection. Often includes practical exercises in Abu Qir Bay; typically subsidized or community-accessible.



[Oil Spill Combating Training Center](#) on AASTMT webpage

Environment Protection and Crisis Management Simulator

Used for *training and education* on real-time environmental crisis response (e.g., natural disasters, coastal contamination). Involves scenario-based education relevant to land and marine ecosystems.



[Environment Protection and Crisis Management Simulator](#) on AASTMT webpage

Geospatial Information Technology Unit

Provides *GIS & Remote Sensing training* for mapping habitats, land use, and biodiversity changes key to land ecosystem education. Supports community research and environmental awareness.



[Geospatial Information Technology Unit](#) on AASTMT webpage

Community Outreach Workshop ‘Antifouling Paints: Environmental Hazards and Alternatives’ (Abu-Qir Bay Fishermen Community Outreach Workshop) (community education) (Free)

In January 2023, familiarize the local fishermen with the threats and adverse effects encouraging them to use eco-friendly antifouling paints...” which addresses marine ecosystems education.

Initiative: Antifouling paints: Environmental hazards and alternatives (Abu-Qir Bay Fishermen community outreach workshop)

Biofouling is the accumulation of bacterial growth, algae, and sessile invertebrates on any submerged surface. To combat fouling ships must constantly undergo cleaning up and maintenance processes. The protection of boat hulls against biofouling is a compelling necessity, not only to prevent material corrosion and degradation but also to maintain the proper maneuverability of the boats, thereby ensuring safety at sea. Antifouling paints are widely used to counteract this problem, using toxic substances such as copper-containing paints which have a great negative impact on marine organisms. Raising the awareness of fishermen about this problem and encouraging them to use eco-friendly antifouling paints is of great importance; environmentally and economically.

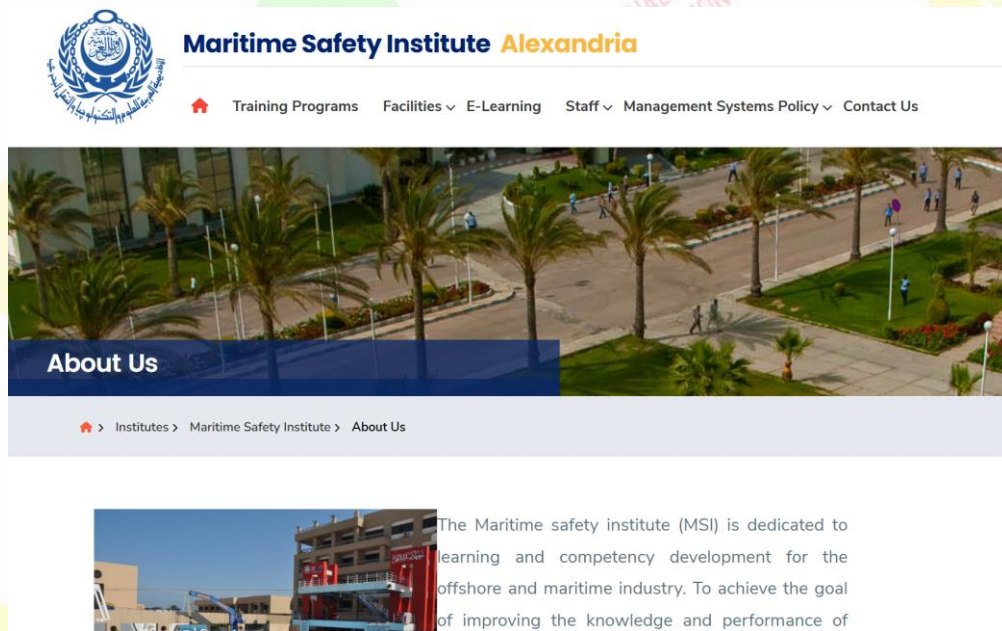


[Abu-Qir Bay Fishermen Community Outreach Workshop](#)

Paid / Academic Programmes:

Maritime Safety Institute (MSI)


Provides professional training on offshore environmental safety, marine survival, and pollution control relevant to marine ecosystems. MSI is dedicated to learning and competency development for the offshore and maritime industry. To achieve the goal of improving the knowledge and performance of offshore and maritime personnel, MSI operates in compliance with the premier quality standards (DNV, ISO 9001:2015) & (DNV, ISO 45001:2018) to implement international training standards such as the International Maritime Organization.



[Maritime Safety Institute](#) on AASTMT webpage

Bachelor Degree in Aquaculture (Paid academic programme)

Studies on ecosystems, biodiversity, and environmental management are all part of the AASTMT undergraduate programs. Colleges such as the College of Fisheries Technology & Aquaculture provide specialized programs, such as courses on marine biodiversity and sustainable fishing methods.



College of Fisheries and Aquaculture Technology AbuKir

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Aquaculture department

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Program Description

Vision The program's vision is to be one of the leading undergraduate programs in the field of aquaculture at the national, regional and international levels, by offering high quality education.

[Courses](#)


Degree	Bachelor
Area of study:	Maritime
Duration:	8 Terms
Credit hours:	138.00 hrs

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[Bachelor degree in Aquaculture \(Paid academic programme\)](#) on AASTMT webpage

M.Sc. in Sustainable Management of Fisheries and Aquaculture Paid (postgraduate programme)

The M.Sc. in Sustainable Management of Fisheries and Aquaculture aims to contribute to scientific research capture fisheries and aquaculture ... directing innovation.


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Master of Science Degree in Sustainable Management of Fisheries and Aquaculture (SMFA) , Funded by the EU (Erasmus+)

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Degree	Master
Area of study:	Maritime
Duration:	4 Terms
Credit hours:	40.00 hrs

[M.Sc. in Sustainable Management of Fisheries and Aquaculture Paid \(postgraduate programme\)](#) on AASTMT webpage