

13.3.1 Local Education Programmes on Climate

2023-2024

Education and awareness raising are powerful means with which to address climate change, global warming and the emission of greenhouse gases. Community-based climate risk, impact, adaptation, mitigation, and early warning programmes enhance climate literacy and help to reduce vulnerability, while empowering communities and students to participate in efforts to reduce emissions. It is the vision of the AASTMT to mainstream such programs within its institutional climate action.

MOU by AASTMT

The AASTMT Maritime Postgraduate Studies Institute signed an MOU with the Arab Institute of Navigation to offer no cost training courses in marine safety, first aid, and firefighting onboard ships as a means of fulfilling its social responsibility. This action contributes to climate adaptation and reduction of its effects by increasing the readiness and safety consciousness of USV operators in climate-related threats such as marine heatwaves, and emergencies at sea. The programme contributes to the target 13.3.1through practical localized trainings that enhance early warning systems and resiliency in the maritime industry.



<u>AASTMT Maritime Postgraduate Studies Institute signed an MOU</u> on AASTMT webpage

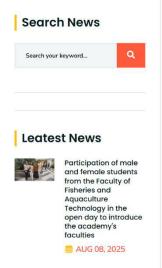
Climate Change and Remote Sensing Applications for College Students 15 Aug, 2024

Training courses on climate change and remote sensing organized by the College of Fisheries & Aquaculture Technology, AASTMT this 3-day. This is directly a local education programme on climate risks, impacts, and adaptation. It includes Theoretical and practical lectures in remote sensing and climate change; fisheries & aquaculture applications; a field/research vessel visit. This training helps students understanding the climate risks and monitoring.



thank God, the training course on climate change and remote sensing applications for college students was completed, which was held at the Institute's branch in Alexandria





AASTMT Climate Change and Remote Sensing Applications for College Students on AASTMT webpage

Impacts of Climate Change on Achieving Sustainable Development Goals" Session

AASTMT took part in a session through the Vision 2030 Forum, lecturing on origins and signs of climate change, the implication of greenhouse gas emissions, and measures for mitigation and as early warning. The programme highlighted the connection between reducing carbon footprint and climate mitigation policy and adaptation, raising awareness and backing Egypt's path to a low-emission climate resilient future.



Impacts of Climate Change on Achieving Sustainable Development Goals" session on AASTMT webpage



Arab Day for Disaster Risk Reduction 2024

The Arab Day for Disaster Risk Reduction 2024, held on 28 March 2024, the workshop organized under this celebration addressed disaster risk management, crisis response, climate-related threats, and resilience building — all core aspects of climate adaptation and early warning systems. The discussions and capacity-building sessions enhanced participant awareness of climate-induced disasters and promoted preparedness strategies



Arab Day for Disaster Risk Reduction 2024 on AASTMT webpage

AASTMT at COP29 in Baku, Azerbaijan November 2024: Key Forum on Education, Climate Change & Human Capacity Building

AASTMT in collaboration with the League of Arab States, organized an international forum during COP29 focusing on the intersection of education, climate change, and sustainability. The event addressed the urgent global challenges of CO₂ emissions, global warming, and greenhouse gas mitigation, emphasizing the role of educational institutions in carbon reduction, climate adaptation, and environmental impact mitigation. Experts highlighted how research, innovation, and policy integration can enhance climate resilience, carbon footprint reduction.





AASTMT at COP29 in Baku, Azerbaijan: Key Forum on Education, Climate Change & Human Capacity Building on facebook

Climate Change and Water Management (UNR1601) Training

AASTMT organized an educational program titled "Climate Change and Water Management (UNR1601)" that focused on understanding the effects of climate change on water resources and sustainable development. The course aimed to enhance students' awareness of climate-related challenges and adaptation strategies, with more than 200 participants engaged in the program.



Climate Change and Water Management (UNR1601) Training on AASTMT webpage



Green Peace and Sustainable Resilience Forum

The forum is an educational and awareness event where students participated in discussions about climate policy, green peace, sustainable resilience, and the role of media — all components of climate change education and public awareness. students participated in sessions and discussions about climate policy, sustainable resilience, and green peace, which directly aim to raise awareness and build understanding of climate change risks, impacts, mitigation, and adaptation.



<u>Green Peace and Sustainable Resilience Forum</u> on AASTMT webpage

AASTMT Hosts Forum on Strategic Ocean Alliance to Tackle Climate Impacts on Marine Ecosystem

On December 9, 2023, AASTMT organized a forum titled "Strategic Ocean Alliance" at the League of Arab States pavilion, as part of Environment & Meteorology Day. The event brought together regional and international experts, civil society and private sector stakeholders to discuss climate adaptation and mitigation strategies for marine ecosystems. Topics included CO₂ emissions reduction, marine biodiversity protection, and advancing sustainable economic practices in maritime regions.





AASTMT Hosts Forum On Strategic Ocean Alliance To Tackle Climate Change Impacts On Marine Ecosystems

AASTMT Hosts Forum on Strategic Ocean Alliance to Tackle Climate Impacts on Marine Ecosystem on AASTMT webpage

Unigreen Projects Workshops

The Arab Academy for Science, Technology and Maritime Transport (AASTMT), in collaboration with the European Union, launched the UniGreen National Competition to encourage university students to develop innovative projects addressing climate change, carbon footprint reduction, and environmental sustainability. The initiative aims to build youth capacity in climate action, green innovation, and sustainable resource management, supporting Egypt's Vision 2030 and the UN Sustainable Development Goals (SDG 13 – Climate Action).



<u>Unigreen Project Workshops</u> on AASTMT webpage



SPEED Strategies for CaPacity building of hybrid Electric vehicle in Engineering Division

The SPEED project aims to build capacity in Hybrid Electric Vehicle (HEV) technologies through the development of new curricula, training programs, and the establishment of International Centers of Hybrid Electric Vehicle Technologies (HEV-T) in the Mediterranean region. Through postgraduate and undergraduate training, SPEED promotes energy efficiency, renewable energy integration, and GHG reduction, directly contributing to climate change mitigation and sustainable mobility.



Speed Strategies for CaPacity building of hybrid Electric vehicle in Engineering on AASTMT webpage



GREEN Developing a curriculum on Green Hydrogen Technologies and Applications in Southern Mediterranean Countries

The GREEN project aims to develop a curriculum on Green Hydrogen Technologies and Applications in Southern Mediterranean Countries through collaboration between higher education institutions and industry partners. Green hydrogen, produced from renewable energy sources, plays a critical role in reducing greenhouse gas emissions, supporting clean mobility, and advancing climate-neutral energy systems.



GREEN Developing a curriculum on Green Hydrogen Technologies and Applications on AASTMT webpage

AASTMT Education Curriculum for Climate Action and Early Warning Systems (2024)

In 2024, AASTMT strengthened its commitment to SDG 13.3.1 through a range of educational programs and initiatives. The Meteorology Courses offered across AASTMT's maritime and fisheries colleges provide students with essential understanding of weather systems, climate variability, and extreme event forecasting key competencies for early warning preparedness. The MSc in Smart Environmental Management of Climate Change (SECCM) focuses on scientific and technological strategies for CO₂ reduction, climate risk monitoring, and adaptation planning, empowering graduates to implement effective climate action policies.



Meteorology Course At AASTMT: Building Capacity For Climate Risk Monitoring And Early Warning Systems

The Meteorology Course at AASTMT equips students with critical skills for monitoring climate risks and managing early warning systems. By covering climate change patterns, CO2 emissions, and extreme weather forecasting, the course supports local and regional governments in disaster preparedness and mitigation efforts. Graduates are trained to provide technical expertise for early warnings, enhancing community resilience and informing government strategies for climate-induced risks.

This initiative underscores AASTMT's commitment to climate risk reduction and cooperative planning for climate resilience





AASTMT Education Curriculum for Climate Action on AASTMT webpage