Arab Academy for Science, Technology & Maritime Transport

Arab Academy
for Science, Technology & Maritime Transport



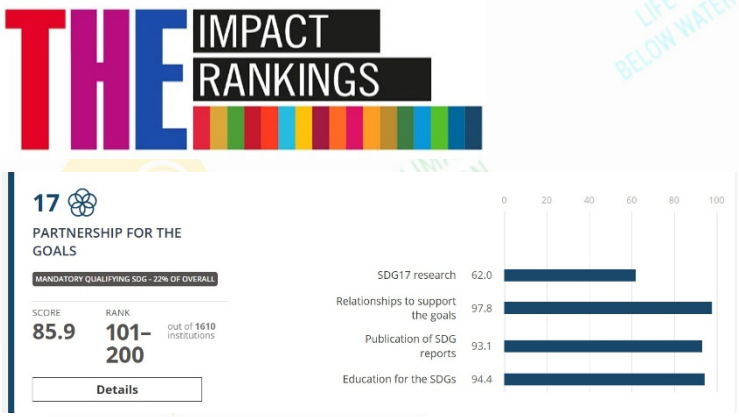
Report 2024 / 2025

SDG 17

Our Aim in 2024 -2025

During 2024–2025, AASTMT strengthened its commitment to sustainable development through strategic partnerships, international research, and initiatives addressing climate resilience, environmental protection, green technologies, and digital innovation. The Academy also advanced sustainability education through specialized academic programmes, curriculum integration, and sustainability literacy assessments. Alongside these efforts, AASTMT expanded community engagement through vocational training, refugee education, and health initiatives, reinforcing its contribution to the United Nations Sustainable Development Goals at local, regional, and international levels.

THE Impact Ranking Scores 2023-2024



SDG 17

PARTNERSHIPS FOR THE GOALS

17 PARTNERSHIPS FOR THE GOALS

Key Milestones in 2024-2025

During 2024–2025, AASTMT expanded its strategic impact by forging high-level partnerships with regional governments, international organizations, and European institutions to advance sustainability, green technologies, and digital transformation. The Academy strengthened cross-sector cooperation across fields such as marine environmental protection, climate resilience, clean energy supply chains, and artificial intelligence. Internally, AASTMT integrated sustainability and modern competencies into its educational frameworks, updating curricula across engineering, architecture, and maritime studies through collaborative Erasmus+ and international research initiatives. The institution also enhanced its societal outreach by launching specialized technical training programs for refugees, supporting vulnerable communities, and delivering community-driven medical and development initiatives. Furthermore, AASTMT solidified its leadership across regional and global platforms by hosting international ministerial sessions, contributing to cross-border frameworks for disaster risk reduction and waste management, and positioning itself as a central hub for sustainable development in the Mediterranean and Arab regions.

Community Engagement

AASTMT - Egyptian Competition Authority “Agreement”

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) and the Egyptian Competition Authority signed a cooperation protocol at the Smart Village campus, presided over by His Excellency Prof. Dr. Ismail Abdel Ghaffar, President of AASTMT, and His Excellency Mahmoud A. Momtaz, Chairman of the ECA. The agreement aims to advance market law awareness, research, and student training through joint workshops, expert exchanges, specialized programs, and student access to the annual simulation model.



AASTMT - Egyptian Competition Authority “Agreement”

AASTMT Conducts Feasibility Study for Establishing Logistics Zones Along the Sudanese Borders

AASTMT's College of International Transport and Logistics presented a feasibility study for establishing logistics zones along Sudan's borders, commissioned by a Council of Arab Transport Ministers resolution. Led by Prof. Dr. Sara Hassan Kamal El Gazzar, the study aims to enhance border efficiency, strengthen supply chains, and promote economic integration.



AASTMT presents feasibility study for logistics zones along the Sudanese borders

AASTMT Unveils Arab Framework Strategy for Solid Waste Management

During a Cairo meeting held from March 17 to 19, 2025, AASTMT and the Arab League presented the draft Arab Framework Strategy for Solid Waste Management. Discussed alongside chemical and hazardous waste treaties, the strategy was detailed by Dr. Alaa Abdel Bary and Dr. Mustafa Rashid as an initiative originating from the 4th Arab Economic and Social Development Summit.



The League of Arab States Presents the First Framework Strategy for Solid Waste Management

AASTMT - National Center for Middle East Studies "Protocol of Cooperation"

AASTMT signed a strategic cooperation protocol with the National Center for Middle East Studies (NCMES) to bridge academic theory with specialized regional research and strategic forecasting. Led by Prof. Dr. Ismail Abdel Ghaffar, the partnership establishes a joint committee focused on knowledge integration, human cadre development, policy alignment, and capacity building.



AASTMT - National Center for Middle East Studies "Protocol of Cooperation"

AASTMT develops a Visual Identity Guide for Matrouh Governorate

AASTMT, partnered with Matrouh Governorate, released a comprehensive visual identity guide highlighting Matrouh's cultural heritage and tourism potential. The designs were produced through AASTMT's design faculties as an outcome of a cooperation protocol signed in March 2024.



AASTMT develops a Visual Identity Guide for Matrouh Government

Environment Minister probes environmental cooperation with AASTMT

Environment Minister Dr. Yasmine Fouad met with AASTMT President Prof. Dr. Ismail Abdel Ghaffar to outline a climate cooperation roadmap leveraging faculty and student innovations. Initiatives include capacity building, ministries' climate units, AAST's new "Climate Change Information Center," and a "Together to Reduce Carbon" mobile app to be developed with the Ministry of Communications.



AASTMT and Ministry of Environment strengthen cooperation
Environment Minister probes environmental cooperation with AAST

AASTMT Participation in Waste Management, Sanitation, and Water Sustainability

AASTMT and German partners hosted a high-level workshop at the AbuKir Campus featuring ministers Dr. Manal Awad and Dr. Yasmine Fouad. The event highlighted collaborative infrastructure successes like the Alam 'Nile' sanitary landfill and the municipal wastewater Sludge Project, showcasing AASTMT's role in sustainable environmental management.



AASTMT and German Partners Hold Workshop on Waste Management, Sanitation, and Water Sustainability
Workshop on "Waste Management in Alexandria" at AASTMT
Statement issued by the Ministry of Environment - Egyptian Cabinet | Facebook

First Annual Artificial Intelligence Forum hosted by AASTMT

Hosted in New Alamein City under the official patronage and presence of His Excellency Dr. Ahmed Aboul Gheit, Secretary-General of the League of Arab States, AASTMT organized the First Annual Arab Forum on Artificial Intelligence to promote regional technological collaboration. A major outcome of the forum was a five-party cooperation agreement uniting the League of Arab States, AASTMT, the Spanish Institute for Cybersecurity (INCIBE), the University of Salamanca, and the Caribbean Parliamentary Union.



AASTMT hosts First Annual Artificial Intelligence Forum

AASTMT Hosts the First Coordination Meeting on Marine Disaster Risk Reduction

AASTMT hosted the first coordination meeting on marine disaster risk reduction for Arab States at its Abu Kir campus, facilitated by UNDRR ROAS under the League of Arab States. AASTMT President Prof. Dr. Ismail Abdel Ghaffar emphasized AASTMT's dedication to maritime safety, bringing regional experts together to align early warning systems and emergency frameworks.



Arab States advance regional action through first coordination meeting on marine disaster risk reduction

AASTMT Participation in the International Conference on Artificial Intelligence, Nouakchott, Mauritania

On 26-27 May 2025, AASTMT participated in the International Conference on Artificial Intelligence in Nouakchott, Mauritania, led by Prof. Dr. Ismail Abdel Ghaffar and attended by Dr. Sheikh Ould Dheeb. The sessions focused on digital inclusion and technical competencies, culminating in a strategic bilateral cooperation agreement between AASTMT and the Mauritania Higher Institute of Digital Technology.



AASTMT Participation in the International Conference on Artificial Intelligence, Mauritania

AASTMT and Life Makers Foundation Co-organize 'UniGreen' Conference "Shaping a Sustainable Future 2024"

AASTMT and the Life Makers Foundation co-organized the EU-supported UniGreen Conference to foster dialogues on climate change mitigation and adaptation. The youth-focused initiative engages universities and NGOs through competitions and boot camps, with AASTMT acting as an educational partner to support sustainable development in Egypt.



AASTMT Participation in UniGreen Conference "Shaping a Sustainable Future 2024"

AASTMT Participation in International Green Ports Forum, COP29, Baku, Azerbaijan

AASTMT participated in the International Green Ports Forum at the COP29 Blue Zone in Azerbaijan, featuring presentations on maritime decarbonization. Dr. Alaa Morsy, Dean of the Port Training Institute, delivered a presentation on "Climate-Resilient Port Infrastructure," highlighting best practices and recommendations within the World Ports Sustainability Program.



AASTMT Participation in International Green Ports Forum, COP29, Baku, Azerbaijan

Arab-European Workshop on Green Hydrogen Supply Chains

Organized alongside the 37th session of the Council of Arab Transport Ministers, AASTMT hosted an Arab-European workshop on building green hydrogen supply chains. AASTMT President Prof. Dr. Ismail Abdel Ghaffar and Dr. Sara Hassan Kamal El Gazzar highlighted Qatar's developmental strategy and regional clean energy initiatives to foster long-term Euro-Arab climate cooperation.



Arab-European Workshop on Green Hydrogen Supply Chains

AASTMT hosts 73rd Executive Office and 37th Session of the Council of Arab Transport Ministers

AASTMT hosted the 73rd session of the Executive Office of the Council of Arab Transport Ministers and its 37th ministerial session in Alexandria. Regional government representatives gathered to advance economic integration, discussing topics such as artificial intelligence in transport, maritime safety, and land transport regulations.



Qatar partakes in 37th session of Council of Arab Transport Ministers

International Workshop on the Impacts of Climate Change on Coastal Cities

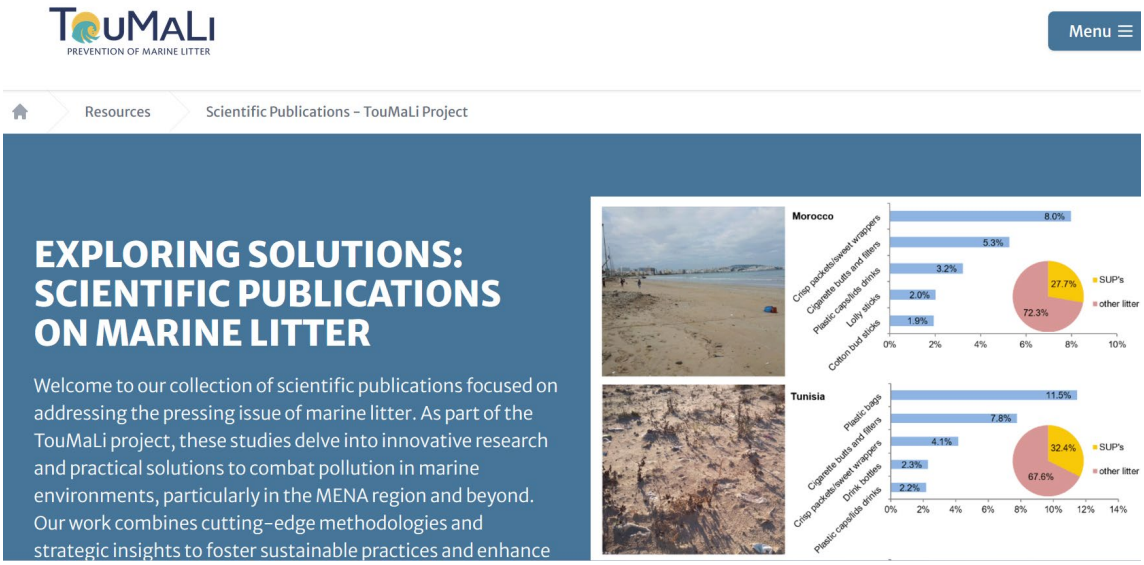
AASTMT President Prof. Dr. Ismail Abdel Ghafar participated in an international workshop at the Bibliotheca Alexandrina focusing on climate change impacts on coastal cities ahead of the 2025 UN Ocean Conference. Discussions emphasized AASTMT's active involvement in over 20 internationally funded projects dedicated to climate resilience.



AASTMT President Participation in an international workshop on "The impacts of Climate Change on Coastal Cities"

AASTMT Participation in TouMaLi Project

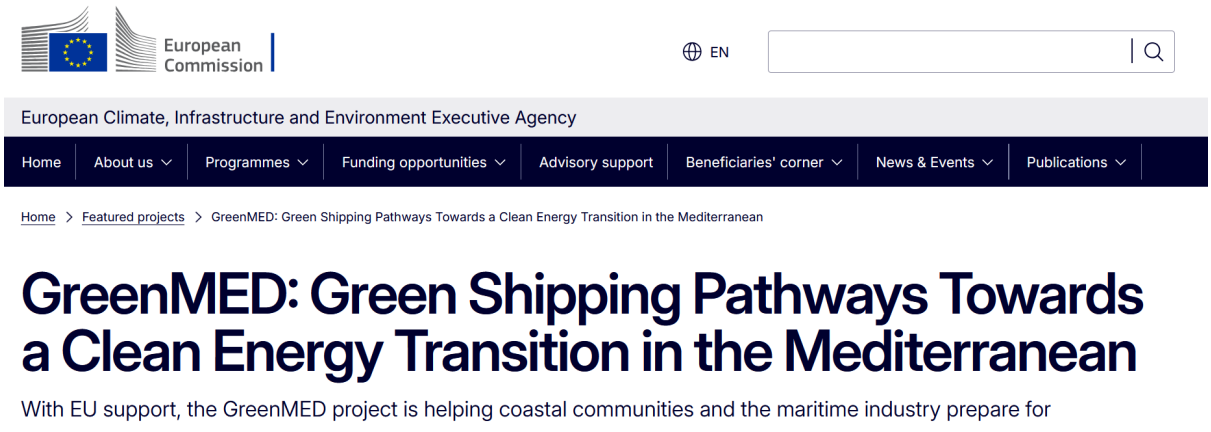
1 May 2021 – 31 December 2026, The TouMaLi project, running from 2021 to 2026 and funded by the German Federal Ministry for the Environment, aims to reduce tourism-related marine litter across the MENA region. AASTMT coordinates local activities, conducts beach litter surveys, and assesses plastic pathways in Egypt, contributing key research publications on coastal debris and extended sector responsibility.



Scientific publications of TouMaLi project

Green Shipping Pathways Towards a Clean Energy Transition in the Mediterranean

The EU-funded GreenMED project drives maritime decarbonization across Greece, Spain, Cyprus, and Egypt. AASTMT executes key research on fuel supply chains and feeds regional North African operational datasets into the Mediterranean Sustainable Shipping Observatory (MSSO) decarbonization hub.



GreenMED: Green Shipping Pathways Towards a Clean Energy Transition in the Mediterranean

Project: Surveying and Mapping Technology for Smart City (SUMTS)

AASTMT released the baseline study for the EU Erasmus+ funded project with the title Surveying and Mapping Technology for Smart City (SUMTS). Tailored to modernize engineering education and strengthen academia-labor market collaboration, the project involves regional partners from Greece, Italy, Jordan, and Tunisia.



AASTMT Disseminates the Baseline Study of the SUMTS Project (Erasmus+)

Project: Green Maritime Horizons Collaborative Innovation in Ship Engineering and Sustainable Technologies (GEMS-TECH)

Secured under the EU Erasmus+ Programme, the GEMS-TECH project aims to integrate sustainable practices and water resource protection into maritime education in Egypt and Kenya. Led by AASTMT's Innovation and Training Sector and Faculty of Engineering, the initiative develops multidisciplinary modules, Massive Open Online Courses (MOOCs), and advanced sustainability labs.

Co-funded by the European Union

GEMS TECH

GEMS-TECH Green Maritime Horizons Project

Project: Knowledge Exchange in Aquatic Animals Medicine and Ecosystem Health in the Mediterranean and sub-Saharan Regions (AquaVET)

On 1 December 2024, AASTMT is participating in the Erasmus+ AquaVET project to address aquatic veterinary medicine and aquaculture challenges in Egypt and Nigeria. Alongside international partners from Italy and Croatia, the project focuses on curriculum modernization and training to reduce fish mortality and strengthen food security.

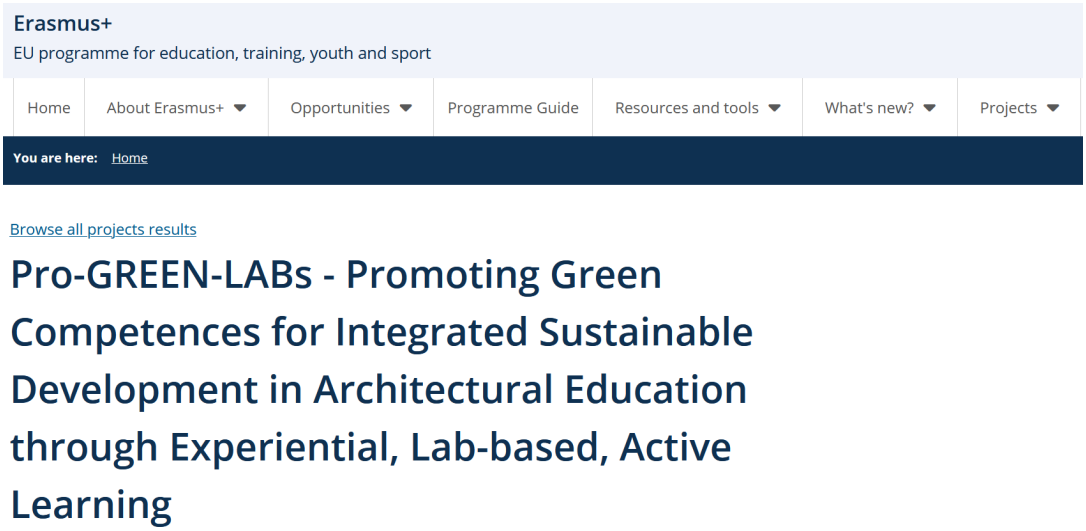




AquaVET Knowledge Exchange in Aquatic Animals Medicine and Ecosystem Health in the Mediterranean and sub-Saharan Regions

AASTMT participation in the ongoing project Pro-GREEN-LABs

AASTMT participates in the Erasmus+-funded Pro-GREEN-LABs project (2024–2027) to embed green competencies into architectural and urban design education. The initiative utilizes hybrid urban living labs equipped with 3D printers and energy loggers to foster experimental learning and climate resilience strategies across Europe and the South Mediterranean.



Pro-GREEN-LABs Project

UNHCR-Terre des Hommes-AASTMT Summer Volunteer Programme

AASTMT collaborated with the UN refugee agency (UNHCR) and Terre des Hommes (TdH) to organize a summer volunteer program supporting refugees. Top-performing AASTMT students

taught English classes to over 70 refugee children, while media students produced a documentary highlighting refugee resilience.



UNHCR Egypt Emergency Response Update, August 2025

Medical Convoy in participation with Mowasah Hospital Patients' Care Association

On 7 December 2024, The AASTMT at El Alamein branch partnered with the Mowasah Hospital Patients' Care Association to run a medical convoy. Pharmacy students and medical professionals provided free medical examinations, dispensed medications, and delivered health awareness sessions to underserved local communities.



Medical Convoy in participation with Mowasah Hospital

AASTMT Refugee Training Programs in Collaboration with Caritas-Egypt

2 March 2025 – 18 June 2025, In cooperation with Caritas-Egypt, AASTMT designed technical and vocational training programs to equip Sudanese refugees with sustainable employment skills. The two-week courses included Small and Medium Enterprises, Automotive Diagnostics, Industrial Electrical Maintenance, and Solar Energy.



Automotive Diagnostics Training

AASTMT Cooperation with Adelphi-Research in TouMaLi Project

Under the TouMaLi project, AASTMT collaborates with the German non-profit organization Adelphi-Research to combat marine litter in Egypt, Morocco, and Tunisia. The AASTMT research team collects field data, conducts beach litter surveys, and assesses plastic pathways to help decrease coastal debris in tourism hotspots.

TouMaLi project partners:

Training on Social Sustainability Aspects

AASTMT promotes social sustainability education through annual training for students, faculty, and staff, covering human rights, equality, inclusion, social justice, gender equity, disability rights, community resilience, and responsible governance. Student engagement is supported through academic modules, workshops, awareness campaigns, and extracurricular activities, with an estimated 20–30 hours of annual learning and engagement per student, depending on programme schedules and participation.



Training on Social Sustainability Aspects

PQI and Wilkes University Organize First International Student Research Symposium on Sustainability and Innovation

On 5 May 2025, AASTMT's Productivity and Quality Institute (PQI), in collaboration with Wilkes University (USA), organized its first International Student Research Symposium on sustainability and innovation. Students from both institutions collaborated in five interdisciplinary research groups, presenting projects on antimicrobial coatings, bio-based products, digital health, and foreign direct investment. The event promoted international academic exchange, research skills, and collaboration in addressing sustainable development challenges.



PQI and Wilkes University Organize First International Student Research Symposium on Sustainability and Innovation

AASTMT Celebrates Arab Disaster Risk Reduction Day with Experts and Multisite Participation

On 20 March 2025, AASTMT celebrated Arab Disaster Risk Reduction Day through an educational event at its Abu Qir campus, broadcast across other campuses and online. Experts discussed disaster preparedness, prevention, and community resilience, highlighting practical strategies to reduce risks and strengthen emergency response. The event promoted interdisciplinary learning and awareness of disaster risk reduction and sustainable development.



AASTMT Celebrates Arab Disaster Risk Reduction Day with Experts and Multisite Participation

Solar Energy Course Activities at the Industry Service Complex Workshops in Collaboration with Caritas Egypt

AASTMT's Industry Service Complex, in collaboration with Caritas Egypt, organised solar energy training activities at its AbuKir workshops under the EU-supported “Hand in Hand” Project. The initiative extended renewable energy education to the wider community and promoted practical sustainability-related learning.



Solar Energy Course Activities at the Industry Service Complex Workshops in Collaboration with Caritas Egypt

Activities of Electrical Maintenance Training Courses for Factories at the Industry Service Complex Laboratories, in Cooperation with Caritas Egypt, Funded by Caritas Austria

AASTMT's Industry Service Complex, in collaboration with Caritas Egypt and with funding from Caritas Austria, provided practical electrical maintenance training for refugees, asylum seekers, and migrant youth. The courses developed industrial technical skills, supported employability, and expanded access to vocational education.



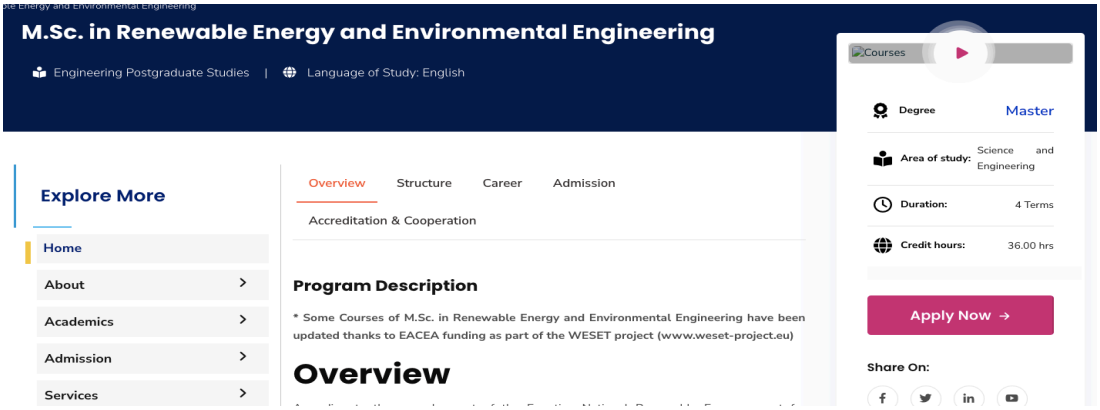
Activities of Electrical Maintenance Training Courses for Factories at the Industry Service Complex Laboratories, in Cooperation with Caritas Egypt, Funded by Caritas Austria

Sustainability-Focused Academic Programmes

AASTMT offers specialized postgraduate programmes that integrate sustainability into higher education, equipping students with the knowledge and practical skills to address environmental challenges, promote renewable energy, and support sustainable resource management.

M.Sc. in Renewable Energy and Environmental Engineering

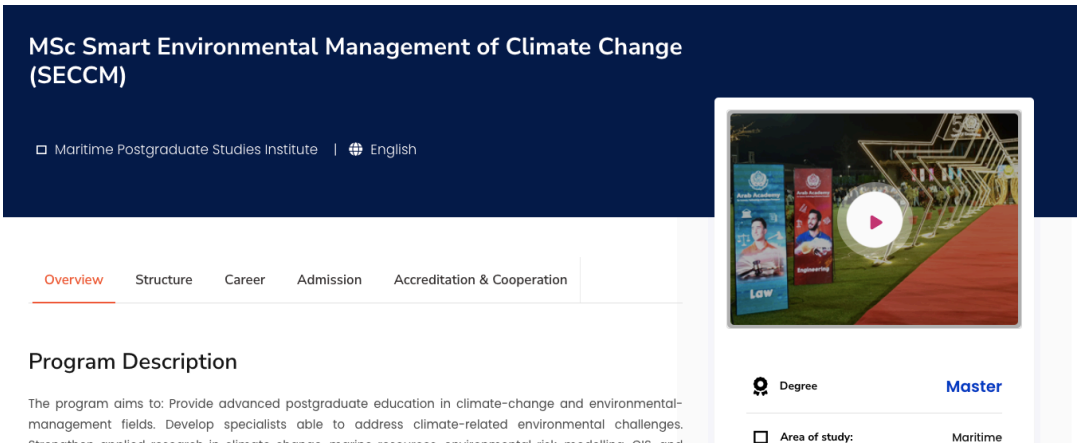
AASTMT offers an M.Sc. in Renewable Energy and Environmental Engineering, integrating renewable energy technologies, environmental assessment, and sustainable engineering practices. The programme equips students with the knowledge and skills to evaluate clean energy systems, assess environmental impacts, and develop sustainable engineering solutions.



M.Sc. in Renewable Energy and Environmental Engineering

M.Sc. in Sustainable Management of Fisheries and Aquaculture

AASTMT offers an M.Sc. in Sustainable Management of Fisheries and Aquaculture, developed through the EU-funded Erasmus+ FishAqu project. The programme focuses on sustainable fisheries management, aquatic resource conservation, stock assessment, and responsible aquaculture production, supporting environmental sustainability and marine resource protection.



MSc Smart Environmental Management of Climate Change (SECCM)

Sustainability Integration and Literacy Assessment Framework

AASTMT integrates sustainability into its academic framework through the Sustainability Literacy Assessment Framework (SLAF), curriculum mapping, and the alignment of learning outcomes with the United Nations Sustainable Development Goals (SDGs). Together, these initiatives support the integration and assessment of sustainability knowledge and competencies across academic disciplines.

Sustainability Literacy Assessment (SALT-Students)

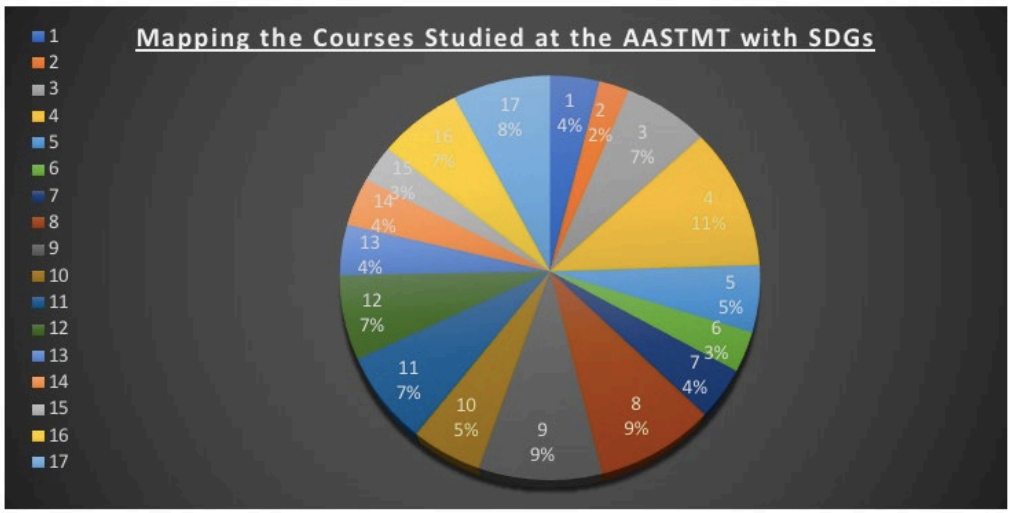
AASTMT's Sustainability Awareness and Literacy Tool (SALT-Students) assess undergraduate and postgraduate students' knowledge of environmental, social, economic, and governance dimensions of sustainability. All students are required to complete the assessment at least once during their studies. During October–November 2025, 9,531 students participated, including 7,083 undergraduates and 2,448 postgraduates. The overall mean score was 57.1%**,** with undergraduate and postgraduate averages of 54% and 66.3%, respectively. The results support institutional planning and sustainability education development.



Sustainability literacy and knowledge Assessment Tool (for Student)
AASTMT_SALT_Students_Statistical_Report_2025

Mapping AASTMT Courses with the UN SDGs

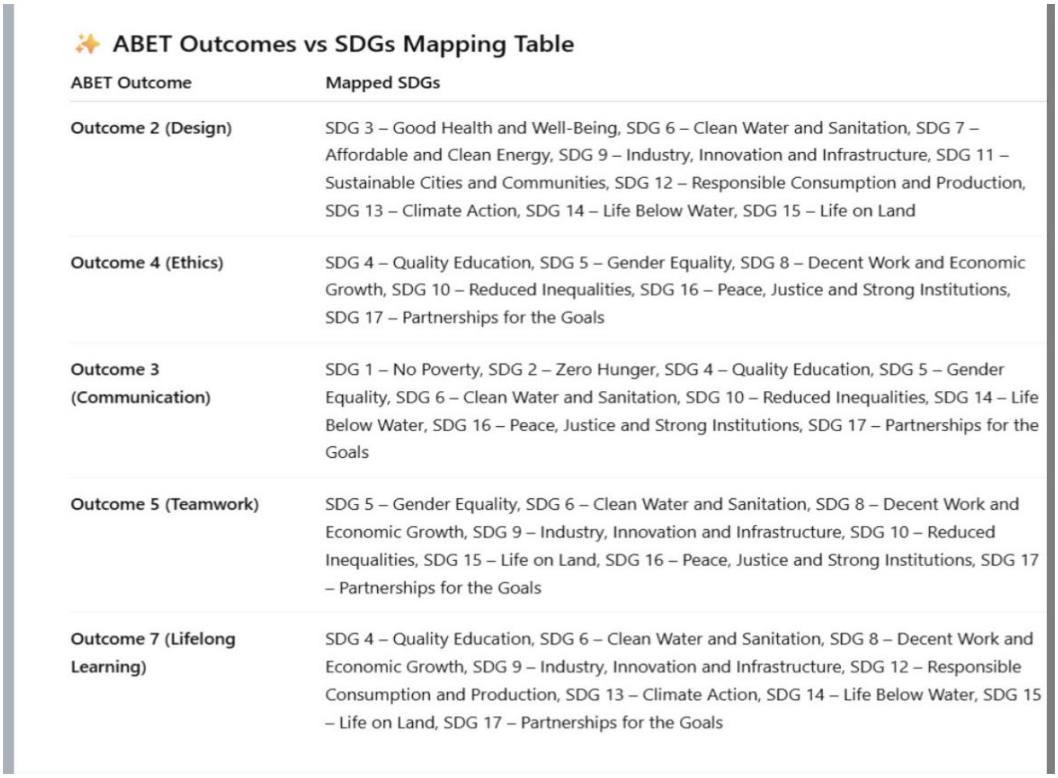
Launched in 2020, AASTMT's institutional initiative maps academic courses across programmes, disciplines, and campuses to the 17 United Nations Sustainable Development Goals (SDGs). It highlights sustainability integration across the curriculum and identifies courses contributing to specific SDGs.



Mapping AASTMT Courses with the UN SDGs

ABET–SDG Mapping

AASTMT aligns ABET engineering learning outcomes with the United Nations Sustainable Development Goals (SDGs), integrating sustainability principles into engineering design, ethical responsibility, communication, teamwork, and lifelong learning. This framework promotes environmental and social awareness within engineering education.



✨ ABET Outcomes vs SDGs Mapping Table

ABET Outcome	Mapped SDGs
Outcome 2 (Design)	SDG 3 – Good Health and Well-Being, SDG 6 – Clean Water and Sanitation, SDG 7 – Affordable and Clean Energy, SDG 9 – Industry, Innovation and Infrastructure, SDG 11 – Sustainable Cities and Communities, SDG 12 – Responsible Consumption and Production, SDG 13 – Climate Action, SDG 14 – Life Below Water, SDG 15 – Life on Land
Outcome 4 (Ethics)	SDG 4 – Quality Education, SDG 5 – Gender Equality, SDG 8 – Decent Work and Economic Growth, SDG 10 – Reduced Inequalities, SDG 16 – Peace, Justice and Strong Institutions, SDG 17 – Partnerships for the Goals
Outcome 3 (Communication)	SDG 1 – No Poverty, SDG 2 – Zero Hunger, SDG 4 – Quality Education, SDG 5 – Gender Equality, SDG 6 – Clean Water and Sanitation, SDG 10 – Reduced Inequalities, SDG 14 – Life Below Water, SDG 16 – Peace, Justice and Strong Institutions, SDG 17 – Partnerships for the Goals
Outcome 5 (Teamwork)	SDG 5 – Gender Equality, SDG 6 – Clean Water and Sanitation, SDG 8 – Decent Work and Economic Growth, SDG 9 – Industry, Innovation and Infrastructure, SDG 10 – Reduced Inequalities, SDG 15 – Life on Land, SDG 16 – Peace, Justice and Strong Institutions, SDG 17 – Partnerships for the Goals
Outcome 7 (Lifelong Learning)	SDG 4 – Quality Education, SDG 6 – Clean Water and Sanitation, SDG 8 – Decent Work and Economic Growth, SDG 9 – Industry, Innovation and Infrastructure, SDG 12 – Responsible Consumption and Production, SDG 13 – Climate Action, SDG 14 – Life Below Water, SDG 15 – Life on Land, SDG 17 – Partnerships for the Goals

ABET–SDG Mapping of Learning Outcomes

Upcoming Goals

Building on its achievements during 2024–2025, AASTMT aims to further strengthen its contribution to SDG 17 by expanding partnerships with governments, international organisations, academic institutions, and industry stakeholders. The Academy will continue to support collaborative research and ongoing international projects addressing climate change, marine pollution, renewable energy, green shipping, and sustainable resource management. Greater emphasis will also be placed on integrating sustainability into academic programmes through curriculum development, practical training, and international educational cooperation. In parallel, AASTMT seeks to enhance its sustainability literacy assessment and curriculum mapping initiatives to better evaluate students' knowledge and strengthen sustainability-related learning outcomes. Community engagement will remain an important priority, with continued efforts to expand vocational training, educational opportunities, and capacity-building programmes for refugees and underserved communities. Through these initiatives, AASTMT aims to promote knowledge exchange, encourage green and digital innovation, and strengthen partnerships that contribute to sustainable development at local, regional, and international levels.