50 Years Of Excellence

1972 - 2022

SUSTAINABLE DEVELOPMENT GOALS



ARAB ACADEMY FOR SCIENCE, TECHNOLOGY & MARITIME TRANSPORT

SDGs REPORT 24/25

MESSAGE FROM THE PRESIDENT

It is my privilege to present the Arab Academy for Science, Technology and Maritime Transport's Sustainable Development Goals Report for 2024/2025. The report records what our colleges, campuses and partners delivered across all 17 SDGs during the year, and what we intend to improve next.

In the Times Higher Education Sustainability Impact Ratings 2026, AASTMT was rated first in Egypt among 45 universities, 11th in the Arab world among 239, and 106th of 1,603 institutions worldwide, with an overall score of 87.9. Nine of our seventeen SDG results placed us in the global top 100. In Quality Education we rank 18th in the world, and in Affordable and Clean Energy, 19th.

These results matter to us less as positions in a table than as evidence of practice. They reflect scholarships that keep talented students in education, campuses that are reducing their own energy and water use, and research that serves the maritime, logistics and energy sectors of our region.

We also read the ratings for what they tell us to fix. Health and wellbeing, gender equality and industry innovation remain below our standard, and the Academy has set targets in each for the coming cycle.

I thank our faculty, staff, students and partners, whose daily work these pages describe.

"Sustainability at AASTMT is measured by what we change, on our campuses and in our communities, not by what we promise."



Prof. Dr. Ismail Abdel Ghafar Ismail Farag
President, Arab Academy for Science, Technology & Maritime Transport (AASTMT)

AASTMT SUSTAINABILITY COORDINATION & STRATEGIC STRUCTURE

Sustainability at AASTMT is governed through a three-tier structure that links the President's office to every college and campus.

Strategic tier. The SDGs Workforce Committee sets the Academy's SDG priorities, approves sustainability policies and plans, including the Climate Action Plan 2025-2030, and reviews performance. It meets every three months. Its members are listed at the end of this report.

Coordination tier. The Research Data Science and University Ranking Department of the Deanery of Scientific Research and Innovation consolidates evidence across all 17 SDGs, prepares the Academy's submissions to the Times Higher Education Sustainability Impact Ratings and the QS World University Rankings: Sustainability, and produces this annual report. Specialist units support it: the Research and Innovation Center leads the carbon footprint assessment, and the Energy Research Unit and Energy Management Committee monitor electricity use on every campus.

Implementation tier. Every college and institute appoints an SDG focal point, who maps courses and research to the SDGs, collects data and policy evidence, and reports progress against the Committee's targets. Facilities and Campus Operations, Campus Services and Procurement, and the Deanship of Student Affairs deliver the campus measures on energy, water, waste and student participation.

The structure runs on an annual cycle: data collection, internal validation, external submission, results review and target setting. Findings from each ratings cycle feed directly into the next year's action plans, so that gaps identified in one year become targets in the next.

Three tiers link the SDGs Workforce Committee to every college and institute



governance structure for page 2 · 3 tiers, annual feedback loop

AASTMT'S KEY ACHIEVEMENTS

In the Times Higher Education (THE) Sustainability Impact Ratings 2026, AASTMT took part in all 17 SDGs and achieved an overall score of 87.9 out of 100. The Academy ranks first in Egypt, 11th in the Arab world and in the top 7% of 1,603 universities worldwide. It performs above the global upper quartile in 13 of the 17 SDGs.

Global and Regional Position



First in Egypt (icon strip): SDG 4 Quality Education, SDG 5 Gender Equality, SDG 8 Decent Work and Economic Growth, SDG 10 Reduced Inequalities, SDG 15 Life on Land, SDG 16 Peace, Justice and Strong Institutions.



INTRODUCTION

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) presents its annual Sustainable Development Goals Report for the academic year 2024/2025. Published each year and made publicly available, the report sets out the Academy's progress against all 17 United Nations SDGs, with the data, policies and activities behind each result.

AASTMT is a specialised regional university of the League of Arab States. In Egypt it operates campuses in Alexandria (Abu Qir, Miami, Wabour El Maya and Gianaclis), Cairo, Smart Village, Dokki, Port Said, El Alamein, Aswan and South Valley. Its mission links **quality education, maritime and logistics expertise** and **applied research** to the economic and social needs of the Arab and African regions. That mission maps closely onto the SDGs where the Academy performs strongest: Quality Education, Affordable and Clean Energy, Decent Work and Economic Growth, and Peace, Justice and Strong Institutions.

Our campuses serve as **living laboratories**. In 2024 AASTMT used 19.06 million kWh of electricity across its campuses in Egypt, 4.3% less than in 2023, equal to 25.9 kWh per square metre. The Alexandria campuses have cut electricity use by 17.3% since 2018, and billed use there fell a further 2.2% in 2025. Upgrades to more than 1,500 light fittings, air conditioning, irrigation pumps and motors saved an estimated 474,289 kWh in 2024 and 297,817 kWh in 2025. Emissions at the Alexandria campuses were 103,863 tonnes CO_2e in 2024, **32.8% below the 2019 base year**, meeting the 2025 interim target a year early. A wider **carbon footprint assessment** of four campuses for 2024/2025, under the GHG Protocol and ISO 14064-1, measured 1.73 tonnes CO_2e per student. Maritime and engineering colleges continue applied work on **clean propulsion**, the **blue economy** and **renewable marine energy**.

The human dimension is equally central. Through scholarships worth L.E 428 M to 8,841 students, community training programmes and partnerships with government, industry and international bodies, AASTMT widens access to education and employment for those most at risk of being left behind.

How this report is **organised**. Each of the 17 chapters that follow presents the Academy's aim for the year, its THE Sustainability Impact Ratings 2026 score, key milestones with supporting data, community engagement, and targets for the next cycle. Data refer to the 2024/2025 academic year; energy and emissions figures follow the calendar or financial year stated with each figure.

Since 2022 AASTMT has been committed, under the UNFCCC **Race to Zero** campaign, to **net-zero emissions by 2050** at the latest. Its Climate Action Plan 2025-2030 sets the next milestones: emissions at least 45% below 2019 by 2030, 40% renewable electricity by 2040, and at least 70% of campus waste diverted from landfill by 2030. Over the coming cycle the Academy will also raise its performance in Good Health and Wellbeing, Gender Equality, and Industry, Innovation and Infrastructure



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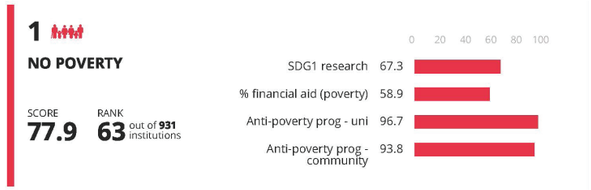
GOAL 1 - NO POVERTY

OUR AIM 2024-2025

In order to contribute to achieving the primary goal of SDG 1: eradicating poverty in all its forms everywhere, AASTMT intensified its efforts during the academic year 2024–2025 to expand equitable access to quality education. The Academy provided comprehensive financial assistance to over 10,490 students, expanded international and refugee scholarship pathways, fostered youth entrepreneurship and start-up financing, and delivered targeted vocational and community outreach programmes aimed at reducing economic vulnerability and uplifting low-income populations.

THE IMPACT RANKING SCORES 2023-2024



OVERVIEW

As a specialized regional organization of the League of Arab States, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) is dedicated to fighting poverty (SDG 1). We believe that education, job skills, and business support are the best ways to help young people and families build a stable income.

During the 2024–2025 academic year, AASTMT supported low-income students, refugees, and underserved communities across Egypt and the Arab-African region. Every semester, the Deanship of Student Affairs (Student Support & Expatriates Department) works with Financial Affairs and Admissions to review student hardship cases—such as family income reports, medical records, or loss of a parent—before the Social Support Committee and the President of AASTMT approve final aid.

KEY MILESTONES IN 2024-2025

1. Bottom-Quintile Admission Target (10%–15% Semester Benchmark)
AASTMT reserves 10% to 15% of newly admitted seats each semester for bottom-financial-quintile and low-income applicants. Applicants submit official income, social-solidarity, or refugee documentation, which a joint committee from Student Affairs, Admissions and Registration, and Financial Affairs audits prior to registration to match confirmed students with tuition waivers, sponsorships, housing, and meal subsidies.

2. Cohort Retention, Completion & the Students First Initiative
During 2024–2025, AASTMT recorded 10,846 total graduates across all campuses. Within the tracked cohort of 10,498 financial-aid recipients, 525 students graduated in 2024–2025 and 9,973 students remained actively enrolled in good standing. Under the flagship *Students First* initiative, faculty advisors monitor mid-semester progress against the 2.40 GPA benchmark, arrange peer tutoring, and coordinate with Student Affairs to resolve non-academic barriers.

-Academic Continuity & Renewal Rules: Recipients of recurring merit and social waivers must maintain a 2.40 GPA minimum, carry a standard full-time credit load, maintain a clean disciplinary record, and submit updated original documentation annually. Students facing sudden household income loss or medical crises are reviewed confidentially for mid-year tier upgrades.

3. Support for Students from Low-Income, Lower-Middle-Income & Conflict-Affected Countries
In 2024–2025, AASTMT administered externally sponsored scholarships—alongside internal fee waivers and Egyptian-rate parity—for students from Sudan, Palestine, Yemen, Syria, Somalia, Djibouti, Comoros, Mauritania, Eritrea, Chad, Nigeria, and Tanzania, co-administered with the League of Arab States, African Union, Egyptian Agency of Partnership for Development (EAPD), and accredited embassies. Displaced students receive flexible credit transfers, expedited placement exams, fee deferrals, and Arabic/English academic bridging.

4. Entrepreneurship Milestones: Spin-offs & Start-up Capital Mobilized
Through the AAST Entrepreneurship Center (AASTEC), AASTMT formalized 23 university spin-off ventures across logistics, agri-tech, clean energy, fintech, and health-tech, and mobilized over EGP 29 million in co-financed start-up capital alongside direct seed prizes for 45 youth projects.

Funding Partner / Program	Committed Capital	Target Beneficiaries & Financial Mechanism
National Bank of Egypt (NBE)	EGP 8,000,000 (2024)	Seed grants, incubation services, and pre-commercialization financing for youth-led technology and industrial start-ups across Egyptian governorates.
USAID / Business Egypt	EGP 8,000,000	Accelerator grants, business-development services, and market-access linkages for high-growth small and medium enterprises (SMEs).
Plan International Egypt	EGP 4,000,000 (2024) EGP 6,500,000 (2025)	Dedicated entrepreneurship seed funding and livelihood grants empowering underserved youth and women-led micro-enterprises (totaling EGP 10.5M across 2024–2025).
Obeikan Investment Group	EGP 2,500,000	Co-investment, supply-chain mentorship, and prototype validation funding under the Supply Chain Accelerator.
MSMEDA — Ready for Tomorrow	Cash prizes for 45 projects	Direct non-dilutive seed prizes, feasibility training, and formal enterprise licensing delivered with the Micro, Small and Medium Enterprises Development Agency.

COMMUNITY ENGAGEMENT

1. Charity & Foundation Scholarship Partners
AASTMT teams up with leading Egyptian and international charities so money never stops a talented student from studying. Key partners include Misr El-Kheir Foundation, Sawiris Foundation for Social Development, Abu El-Enein Foundation, Children's Cancer Hospital Foundation (57357), Agricultural Bank of Egypt (Matrouh), Ezz Steel, Institute of International Education (IIE), the League of Arab States, UN ESCWA, and the African Union.

2. Refugee & Displaced Youth Job Training

- **Caritas Egypt & ILO Partnership:** Under our April 2024 cooperation agreement, the Industry Service Complex ran five ILO-funded courses in small-business digital transformation (graduating 60 trainees between Feb and Apr 2025), Caritas Austria-funded car repair diagnostics courses, EU-funded solar energy workshops, and factory electrical maintenance courses for Sudanese refugees.
- **UNHCR Livelihoods Program:** Following our June 2024 agreement with UNHCR, AASTMT launched a technical training program targeting 280 refugees in electrical work, mechanics, refrigeration, and air conditioning. Students from the College of Language and Communication (CLC) also led digital media and marketing workshops at UNHCR headquarters.

3. Healthcare Convoys, Charity Drives & Public Discounts

- **El-Hamam City Medical Convoy (Dec 2024):** Students and professors from the Colleges of Medicine and Pharmacy (El Alamein Campus) teamed up with the Ministry of Social Solidarity to provide free checkups across medical specialties and free medicines to local residents.
- **CLC Ramadan Food Drive (Feb 2025):** Faculty and students at the College of Language and Communication (Smart Village) packed and delivered Ramadan food boxes directly to underprivileged families.
- **Affordable Public Courses & Industry Links:** The Community Service and Continuing Education Sector kept discounts above 50% on career training courses for low-income learners. AASTMT also worked with 18+ universities, the Ministry of Housing, Etisalat Misr, and Smart Factory to expand practical training.

EVENTS

In 2024–2025, AASTMT hosted flagship scholarship ceremonies, national entrepreneurship competitions, accelerator demo days, and international showcases connecting underserved youth with funding and markets.

AASTMT Scholarships for "Thanaweya Amma Top Distinguished Students" — 15 August 2024
On 14 August 2024, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) hosted Egypt's top-performing Thanaweya Amma students from the 2024 cohort at its Alamein Campus. During an introductory session attended by AASTMT President Prof. Dr. Ismail Abdel Ghafar Ismail Farag and Academy officials, the President announced scholarships for outstanding students across AASTMT colleges and campuses throughout Egypt.

Automotive Diagnostics Training Group at the Industry Service Complex Workshops in Collaboration with Caritas Egypt Sponsored by Caritas Austria
On April 22, 2025, AASTMT Industry Service Complex in collaboration with Caritas Egypt, sponsored by a grant from Caritas Austria delivered hands-on technical training in automotive fault diagnostics for a second cohort of trainees from vulnerable and displaced communities, equipping participants with certified, market-ready mechanical engineering skills for immediate employability.



AASTMT–ASRT Partnership to Promote Entrepreneurship and Innovation for Poverty Reduction
In July 2024, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) signed a Memorandum of Understanding with the Academy of Scientific Research and Technology (ASRT) to foster innovation, entrepreneurship, and technological start-ups through business incubators, accelerators, and specialized training programs. This strategic partnership aims to empower young entrepreneurs and researchers with the resources, mentorship, and technical support needed to transform innovative ideas into viable economic enterprises.



AASTMT–ASRT Memorandum of Understanding to Support Entrepreneurs & Technological Projects
In July 2024 AASTMT signed a Memorandum of Understanding (MoU) with the Academy of Scientific Research and Technology (ASRT) to enhance cooperation in supporting entrepreneurs and technological projects. The agreement establishes a framework for collaboration between the two institutions, including cooperation involving entrepreneurship programmes and initiatives. This partnership is relevant to local start-up assistance because it provides an institutional basis for strengthening entrepreneurship, innovation and the development of technology-based ventures.



Obeikan Company and AASTMT Collaboration to Support Innovation and Entrepreneurship in the Industrial Sector
On 21 March 2025, AASTMT and Obeikan Company announced the continuation of their collaboration to support innovation and entrepreneurship in the industrial sector. The announcement highlights knowledge exchange, mentorship, capacity-building and stronger connections between entrepreneurs and the industrial ecosystem. The collaboration aims to help innovators understand industry needs and develop practical solutions with greater potential for market readiness.

AASTMT Supply Chain Accelerator Demo Day
On 3 July 2024, the AAST Supply Chain Accelerator Demo Day provided an opportunity for ten entrepreneurs to present their companies and demonstrate their progress through the accelerator. The participating start-ups included Nowlun, Pharmapill, Coinix, Fuelin, Tawredaat, Super Be, Ecomilez, Wfrley, Tatbeek and Garrar. The event also included networking opportunities

connecting entrepreneurs with other participants in the supply-chain and logistics ecosystem.



"Ready for Tomorrow" – Rally Egypt 2024 Competition Training Bootcamp
During 9–10 August 2024, the Rally Egypt 2024 "Ready for Tomorrow" training bootcamp brought together more than 150 student entrepreneurs with innovative business ideas. The programme provided training in business-plan development, securing funding, pitching ideas to potential investors and using AI technologies for digital-marketing strategies. The announcement acknowledges the support of Plan International and the National Bank of Egypt as Rally Egypt's strategic partner.



Rally Startup Festival 2024 – Closing Event
On 12 September 2024, the Rally Startup Festival 2024 brought together start-ups, students, investors, mentors and organisations within Egypt's entrepreneurship ecosystem. The closing-event announcement describes entrepreneurs pitching business ideas, students presenting their work and participants engaging in discussions and networking. These activities provide opportunities for entrepreneurial visibility, exchange of knowledge and connections with the wider start-up community.



Rally Society 2025 Bootcamp: Student Innovators from more than 35 Universities
On 18 February 2025, AASTMT's Entrepreneurship Center hosted the Rally Society 2025 Bootcamp, a two-day event bringing together members of the Rally Society from more than 35 universities across Egypt. Participants engaged in interactive workshops, expert-led training, mentorship and team-building activities. The bootcamp focused on start-up development, innovation management, business-model design, leadership, pitching and problem-solving. The programme provided an opportunity for aspiring entrepreneurs to strengthen their business-development skills, exchange knowledge and establish connections with peers and entrepreneurship mentors.



Final Day of the Small and Medium Enterprises (SMEs) Course in Collaboration with Caritas Egypt
On 2 March 2025, AASTMT's Industry Service Complex completed the first Small and Medium Enterprises (SMEs) training course in collaboration with Caritas Egypt, supported by a grant from the International Labour Organization (ILO). The initiative contributes to strengthening entrepreneurial and business-development skills and supporting the development of sustainable small enterprises.



Activation of the MoU between AASTMT and Caritas Egypt
On 29 April 2025, under its cooperation agreement with Caritas Egypt, AASTMT's Industry Service Complex implemented five training courses between February and April 2025, benefiting 60 trainees. The Digital Transformation Programme for SMEs was funded through an ILO grant and aimed to strengthen the digital capabilities of small and medium-sized enterprises, supporting their competitiveness and sustainability.



AASTMT – UNHCR: Vocational Training
Following the agreement signed in June 2024 between the Arab Academy for Science, Technology and Maritime Transport (AASTMT) and the United Nations High Commissioner for Refugees (UNHCR), the Academy's Industry Service Complex, through its Technical and Vocational Studies Institute, undertook the implementation of the *Skills Development for Livelihoods* project. The initiative was designed to expand refugees' access to practical vocational training and strengthen

their capacity to pursue employment and livelihood opportunities in Egypt. The agreement established a target of training 280 refugees in technical occupations aligned with labour-market needs, including electrical and mechanical trades, refrigeration and air conditioning. Implementation relied on the Academy's specialised training facilities and technical expertise to provide opportunities for skills development and practical learning.



AASTMT–Etisalat Misr: Technical Services, Community Support and Electronic Payments

Protocol signed: 5 December 2024

AASTMT and Etisalat Misr signed a cooperation protocol to strengthen collaboration in areas of mutual interest and support the educational process through the provision of technical services to AASTMT students and academic staff. The agreement also included cooperation in community service, assistance for medical staff at university hospitals.



Launch of an Integrated Professional Diploma in Digital Transformation through a Cooperation Agreement with Smart Factor

Cooperation agreement signed: 19 May 2025. AASTMT, represented by the Dean of the Industry Service Complex, signed a cooperation agreement with Smart Factory for Industrial Projects during the Academy Advisory Council for Industry. The agreement aimed to strengthen cooperation in professional training and skills development through the launch of an integrated professional diploma in Digital Transformation. The diploma was designed to prepare industrial and administrative professionals to manage digital transformation within their organizations. Its scope includes technologies associated with the Fourth Industrial Revolution, data management, automation, artificial intelligence and systems integration. It also covers executive leadership and change management, with an emphasis on improving organizational efficiency and productivity.



Healthcare Convoys and Direct Community Aid (2024)

- **El-Hamam City Medical Convoy (December 2024):** In partnership with the Ministry of Social Solidarity, the Colleges of Pharmacy and Medicine at the Alamein Campus launched a community-based medical convoy to El-Hamam City. The convoy offered comprehensive, free medical examinations across multiple specialties and dispensed essential medications free of charge to patients in need.



UPCOMING GOALS

Goal 1: Expand Financial and Social Support for Low-Income Students

- **Initiatives:** Expand scholarships, tuition-fee reductions, subsidized housing, meals, and transportation for economically disadvantaged students.
- **Implementation:** Strengthen coordination between Student Affairs, Financial Affairs, and external funding partners to identify eligible students and provide appropriate support.
- **Expected Results:** Improved access to higher education, reduced financial barriers, and increased student retention and academic success.

Goal 2: Promote Economic Empowerment through Skills Development and Entrepreneurship

- **Initiatives:** Expand vocational training, digital skills programmes, entrepreneurship support, and SME development opportunities for disadvantaged youth and vulnerable groups.
- **Implementation:** Strengthen partnerships with Caritas Egypt, ILO, and other development organizations, while providing practical training, mentoring, and business-development support.
- **Expected Results:** Improved employability, increased income-generation opportunities, and stronger local entrepreneurship.

Goal 3: Enhance Community-Based Poverty Alleviation

- **Initiatives:** Expand community outreach programmes, free or subsidized healthcare, food assistance, and educational support for vulnerable families.
- **Implementation:** Collaborate with NGOs, charitable organizations, healthcare providers, and local authorities to deliver targeted community services.
- **Expected Results:** Improved access to essential services, greater social inclusion, and enhanced support for disadvantaged communities.

GOAL 2 - ZERO HUNGER

OUR AIM IN 2024-2025

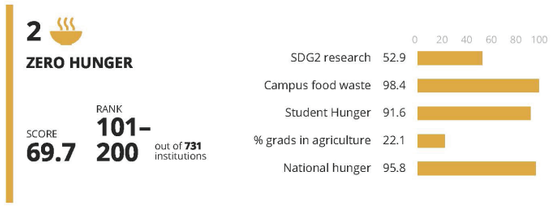
Turn AASTMT's food commitments into measurable, published practice across its campuses: embed the Prosperous Life Policy (reviewed January 2025) and the Sustainable Procurement Policy in campus food services; publish weekly menus and calorie-labelled, affordable vegetarian and vegan choices; measure and transform campus food waste through the Campus Smart Recycling System; widen meal support for students and staff in need; and open AASTMT's laboratories, training and partnerships to local farmers, fishers and food producers, strengthening national food security.

THE IMPACT RANKING SCORES 2023-2024

THE IMPACT RANKINGS

2 ZERO HUNGER

SCORE **69.7** RANK **101–200** out of **731** institutions



KEY MILESTONES IN 2023-2024

KEY MILESTONES IN 2024-2025

AASTMT made substantial advances in food security and sustainable food systems during the 2024-2025 academic year, with key achievements including:

- **Renewed Food Policy Commitments:** The Prosperous Life Policy (Version 3, reviewed January 2025, approved by the SDGs Workforce Committee) commits AASTMT to serving wholesome, locally sourced, seasonal and sustainably produced food across campuses, to prioritizing fair-trade, organic and sustainably farmed items from Egyptian suppliers, particularly in the Nile Delta, and to regular supplier audits, compostable packaging and mandatory sustainability training for food service staff. All purchasing is also governed by the Sustainable Procurement Policy (Version 4, reviewed 2025).
- **Published Menus with Daily Vegetarian Choices:** The Catering Service published the 2024/2025 weekly student menu (for example, 27 October – 2 November 2024), offering vegetarian dishes at every meal and a buffet of three different salads at lunch and dinner. Dedicated vegan menus were served during the Advent Fast (November 2024 – January 2025) and Great Lent (February – April 2025).
- **Healthy, Calorie-Labelled and Affordable Food:** A calorie-labelled menu, reviewed and approved in 2024, lists every dish with its price, with vegetarian meals from 25 EGP and main dishes from 65 EGP. The Nutrition Affairs Department's nutritional standards, approved in 2024, set daily portion targets for protein, carbohydrates, vegetables and fruit, and limit soft drinks to twice a week to prevent obesity.
- **Meal Support for Students:** Campus outlets sell food 5–15% below prices outside the campus gates; the Cilantro branch at the Miami campus, for example, is 15% cheaper than its other Alexandria branches. Prices are based on actual supply costs, daily meal services reach more than 1,000 students and staff at Abu Qir, and low-income students in the residences receive subsidized or free meal plans.
- **Staff Hunger Interventions:** About 900 staff eat daily in campus dining halls at cost. Staff receive 5–30% discounts at partner restaurants such as Abdel Wahab Grills, Pablo Café & Restaurant and Pizza Hut, and 15% off at the Espresso Fellows cafeteria. The annual Abu Qir date-palm and fruit harvest is given free to all staff, and safe surplus food from cafeterias and events is passed to support workers through the Lokmet Kheir (Eat Smart, Waste Less) programme.
- **Food Waste Measured and Transformed:** AASTMT recorded 4 tonnes of food waste in 2024-2025 for a campus population of 38,823. The Campus Smart Recycling System turns organic food remains into compost and recovers plastic tableware and aluminium cans. The Aquaculture Research Center converts used cooking oil into biodiesel in a 1,000-litre reactor and kitchen scraps into vermicompost, and compostable catering supplies have replaced single-use plastic in all college food outlets.
- **Graduates for Sustainable Food Production:** 213 of AASTMT's 10,846 graduates in 2024-2025 (1.96%) completed agriculture and aquaculture courses that include sustainability aspects.
- **Strategic Partnership with MAFI:** On 23 September 2024 AASTMT signed a cooperation protocol with MAFI for Agricultural Produce Industries at the Heliopolis campus, followed by a technical meeting on artificial intelligence for agriculture on 28 November 2024. Producers gain access to AASTMT's R&D laboratories, precision agriculture technologies and smart supply-chain modelling.
- **Sustainable Fisheries Research:** The College of Fisheries and Aquaculture Technology, with the Lakes and Fish Resources Protection and Development Agency, supervised three research projects funded by the FAO General Fisheries Commission for the Mediterranean, assessing fish stocks and monitoring discards and bycatch.
- **Internationally Accredited Food Safety Training:** The Productivity and Quality Institute's FSSC 22000 Version 6 Lead Auditor Course was accredited by CQI and IRCA on 15 August 2025, and the 4th cohort of the Professional Diploma in Food Industries Quality and Safety graduated with the Agricultural Professions Syndicate on 10 August 2025.



Weekly student menu 2024/2025 (2.3.3)

VEGETARIAN MEALS	CALORIES	PRICE (EGP)
Fresh Green Salad Organic lettuce, celery, cucumber, tomato, carrot, and basil dressing	220	35
Quinoa Salad Quinoa, green pepper, red pepper, tomato, olives, and red onions	250	40
Falafel Wrap Chopped falafel, carrot, red onion, and cherry tomatoes	280	25
Vegetarian Wrap Hummus, cucumber, tomato, red onion, red pepper, balsamic and vinaigrette	200	25
Spring Spaghetti Spaghetti, Mushroom, green vegetables, and herbs	380	65
Vegetarian Lasagna Lasagna and mixed sauté vegetables	370	65

Calorie-labelled vegetarian menu with prices (2.3.4)



Staff and students in a campus dining hall (2.3.5)



Espresso Fellows Gold Card: 15% off for staff (2.3.5)



Boxed campus dates given free to staff (2.3.5)



Lokmet Kheir: Eat Smart, Waste Less (2.2.1)



Aquaculture Research Center, Abu Qir (2.2.1, 2.5.3)



CFAT researchers on a GFCM-supported fish stock assessment (2.5.1)



PQI High-Risk Food Safety course, Silo Foods (2.5.1)

COMMUNITY ENGAGEMENT

AASTMT continues to engage with its society and community through its food security initiatives and focuses on building strong relationships with partners:

- **Ramadan 2025 Communal Meals:** The annual Staff and Students Suhoor with the Academy President (12 March 2025, Miami) was followed by collective Iftars at Miami (12 March) and Abu Qir (20 March), an Iftar with the Egyptian Authority for Maritime Safety (23 March) and a staff and leadership Iftar at El Alamein (24 March). The meals were free and open to every student and employee.
- **Iftar El-Saem Meal Distribution:** On 19 March 2025 students and staff of the College of Language and Communication, through the charity group Academy ElKher-CLC, distributed iftar meals to workers at Abu Qir General Hospital and residents of an underprivileged area of Abu Qir.
- **Orphans Day ("Mercy Day"):** On 23 April 2025 the Abu Qir campus welcomed more than 370 children from orphanages and care centers, offering meals, gifts and activities with the support of faculty, students and charitable organizations.
- **Industry Engagement with Food Producers:** Students trained at SEKEM for Food Industries, a pioneer of organic and biodynamic farming (February 2025), and at Kellanova and Mass Food (July – September 2025), and visited Dina Farms (3 November 2024), Edita Food Industries (28 November 2024) and Lamar Farm and Factory in Nubaria (30 April 2025). The Faculty of Agriculture at Minya University visited the Abu Qir campus on 7 April 2025.
- **Food Safety Training for Local Producers:** PQI trained Silo Foods in GMP (28 August 2024), statistical quality control (16 October 2024), the BRCGS Food Safety Standard (11 November 2024), high-risk food safety (July 2025) and ISO 17025 calibration (August 2025); trained Food Craft engineers in ISO 45001 (10 May 2025); and began qualifying Fathalla Wholesale Markets for ISO 9001 (18 May 2025).
- **Mentoring Agri-Food Startups:** AASTMT continued to work with the Egyptian Food Bank to mentor Uni Green sustainability startups free of charge, covering agroforestry, post-harvest loss prevention and organic farming practice.
- **Access to University Facilities:** Local fish farmers and producers can use the Aquaculture Research Center and CFAT water quality, fish pathology and AQAMEH diagnostic laboratories, aquaponics greenhouses and vermicomposting beds. The TWT Agribusiness Incubator supports smallholder innovators in Upper Egypt and the New Valley, and the Erasmus+ RADIO project (from November 2024) is building IoT agronomy and satellite remote-sensing laboratories.
- **Nutrition Research and Awareness:** El Alamein College of Pharmacy students published a study on how food bloggers shape the eating habits of Gen Z and won the Best Women in STEM Student Oral Presentation Award (1 February 2025), and the Faculty of Medicine's 3rd Annual Student Conference (26 April 2025) addressed the gastrointestinal system and obesity.



Annual Staff and Students Ramadan Suhoor, Miami, 12 March 2025



(Uni Green startup team presenting its project (2.5.1



Iftar El-Saem meal distribution at Abu Qir General Hospital



Orphans Day at Abu Qir, 23 April 2025



Students at Lamar Farm and Factory, Nubaria, 30 April 2025



Logistics and Supply Chain students at Dina Farms, 3 November 2024

EVENTS

- **Minister of Agriculture at El Alamein:** On 24 August 2024 H.E. Mr. Alaa Farouk, Minister of Agriculture and Land Reclamation, took part in a ceremony at the El Alamein campus and praised the Academy's role in agricultural and technological education.
- **Climate-Smart Agriculture Research Showcase:** On 29 October 2024 the Maritime Postgraduate Studies Institute highlighted its MSc in Smart Environmental Management of Climate Change, including research on bio stimulants that improve tomato resilience to heat stress.
- **Fish Farm and Hatchery Field Visit:** On 28 November 2024 CFAT students and faculty visited the Basa Fish Farm and Hatchery at Km 21 and intensive fish farms in Borg El Arab, exchanging knowledge with operators on hatchery rearing, feed conversion and biological control of aquatic diseases.
- **Food Africa 2024, Cairo:** On 8 December 2024 PQI took part in Food Africa, Africa's largest trade exhibition for agriculture and food processing, meeting agricultural exporters, smallholder cooperatives and food manufacturers about quality and food safety needs.
- **NET-Work-YOU Agri-Food Dialogue:** On 2 July 2025 the AAST Entrepreneurship Center held a focus group with CIHEAM Bari, CEEBA and Noncooperative Puglia under the EU co-funded Migration Partnership Facility, bringing together young people, small-scale food producers and the agriculture and food processing sectors.
- **Agricultural Robot Showcase:** On 10 July 2025 Technical and Vocational Institute students presented a Jet Engine Agricultural Robot and a Smart Solar Waste Compactor, evaluated for pest control, orchard spraying and farm waste handling.
- **GREENLAND Green Skills Training:** AASTMT continued to lead the training work package of the EU ENI CBC Med GREENLAND project, which trains young people and women in the circular economy, green agribusiness, organic waste valorization and vermicomposting.



CFAT students at a fish rearing tank, 28 November 2024



CFAT field visit to fish farms, 28 November 2024

UPCOMING GOALS

In the coming years, AASTMT aims to build on these achievements to create a campus food system that is more inclusive, environmentally sustainable and supportive of national food security:

- **Digital Food Waste Tracking:** Introduce a digital waste tracking and reporting system across all campuses, explore AI for waste sorting and forecasting, establish Waste Management Centers, and monitor surplus food redistributed through donations, working towards a zero-waste campus by 2049.
- **Expanded Staff Meal Support:** Load digital monthly meal-subsidy credits onto the ID cards of lower-income technical and service staff, plant fruit trees and agroforestry plots at the El Alamein and Port Said campuses, and open a weekly on-campus farm stand run with local smallholder farmers and organic cooperatives.
- **Wider Community Food Initiatives:** Hold Orphan Day celebrations at campuses beyond Alexandria, continue student-led Ramadan meal distribution while documenting meals and partners, and strengthen collaboration with food banks and charitable organizations.
- **Open-Access Knowledge for Producers:** Launch a bilingual Arabic and English extension portal with free video modules for smallholders and fish hatchery operators on precision agriculture, integrated pest management, crop rotation and FSSC 22000 compliance.
- **Farmers' Expo and Mobile Diagnostic Clinic:** Host an annual Smart Agri-Aqua Summit and Farmers' Expo at the Abu Qir and El Alamein campuses, and take soil, water and fish health testing to smallholder farms in Beheira, Kafr El-Sheikh, Nubaria and Matrouh through a mobile diagnostic clinic.

GOAL 3 - GOOD HEALTH AND WELL-BEING

OUR AIM 2024-2025

AASTMT is committed to ensuring good health and promoting well-being for all. The institution actively works toward this goal by focusing on key targets that enhance the health of the local community. This is achieved through a variety of impactful initiatives, including awareness campaigns, medical convoys, community outreach programs, shared healthcare facilities, and the implementation of supportive regulatory policies.

THE IMPACT RANKING SCORES 2023-2024



KEY MILESTONES IN 2024-2025

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) is committed to advancing Good Health and Well-being (SDG 3) through institutional policies, healthcare services, awareness initiatives, and community engagement activities that benefit students, staff, and the wider community, including disadvantaged and underserved groups.

The Academy supports community health through medical convoys, outreach programmes, health awareness campaigns, and initiatives promoting disease prevention and healthier lifestyles. Within its campuses, students and staff benefit from accessible healthcare services, health guidance, and initiatives addressing physical and mental well-being. Preventive health campaigns, including those addressing smoking and vaping, are further supported by AASTMT's official Smoke-Free Campus Policy.

AASTMT also encourages active and healthy lifestyles through its sports and recreational facilities, which are available free of charge to students and staff and accessible to the wider community during Academy-hosted tournaments and events.

Through local and international partnerships with universities, hospitals, and healthcare institutions, AASTMT promotes academic–clinical collaboration, professional training, research, and community health initiatives. These efforts strengthen healthcare education and contribute to improving health awareness and well-being within the communities it serves.

COMMUNITY ENGAGEMENT

In recognition of its role in promoting health awareness and serving the community, AASTMT organizes a variety of health-related initiatives, including sports events, medical convoys, and outreach activities in rural and underserved areas. These efforts aim to improve community health, promote active lifestyles, raise health awareness, and provide local communities with valuable health education and support.

Health Outreach Program:

Community Health Outreach and Medical Convoy for Underserved Communities in Kafr El-Dawar
Date: 7 December 2024 **|Campus / unit:** College of Pharmacy, Alamein
Fourth- and fifth-year pharmacy students, supervised by Dr. Dina Mahdy, joined the annual medical convoy of the Mowasah Hospital Patients' Care Association in Ezbet Ali, Al-Tarah, Kafr El-Dawar. Residents received medical examinations, free medicines, health education and preventive counselling. Partners: Rotary Club of El-Yacht, Alexandria Pharmacists Syndicate, Pharaonia Pharmaceuticals, Vitabiotics, Global Nabi and Pharco. The convoy provided healthcare services to 800 patients, including medical examinations, free medications, health education, and preventive counseling.



Community Health Outreach Medical Convoy Supporting Healthcare Access in El-Dabaa, Matrouh
Free medical convoy for Dabaa Hospital, Matrouh: 267 patients
Date: 26 December 2024 **| Campus / unit:** Colleges of Medicine and Pharmacy, Alamein
The Colleges of Medicine and Clinical Pharmacy, with Matrouh Governorate, ran a medical convoy at Dabaa Hospital covering seven specialties: cardiology, gastroenterology, paediatrics, ophthalmology, ENT, dermatology, and obstetrics and gynaecology. 267 patients received free consultations, and pharmacy interns dispensed free medicines donated by Vitabiotics, the Alexandria Pharmacists Syndicate and Medizen Pharmaceutical Industries.



Local Communities:

World Oral Health Day: Free Dental Check-Ups and Dental Anxiety Awareness
Date: 26 and 27 February 2025 **| Campus / unit:** College of Dentistry
Dental interns, coordinated by Dr. Ghada Mahmoud, delivered talks on dental anxiety and coping strategies and offered free dental examinations to attendees.



Health Sciences Summer School for High-School Students
Date: 29 July 2025 **| Campus / unit:** College of Pharmacy, Alamein (with Abu Qir)
High-school students in the College of Pharmacy summer school took part in hands-on sessions: measuring blood pressure and pulse with physiological monitoring equipment, and pharmaceutical quality-control tests in the Central Laboratory for Pharmaceutical Analysis. The programme built health literacy and interest in health careers. Approximately 80 students were engaged in the hands-on sessions.



Free Eye-Surgery Convoy, Matrouh General Hospital
Date: November 2025 **Campus / unit:** College of Medicine

Under the patronage of the AASTMT President, the College of Medicine, with Matrouh Governorate and the Ministry of Health, ran a free convoy performing eye surgeries for patients at Matrouh General Hospital.



Antimicrobial Resistance Awareness in Schools and Primary Care Units, Borg El Arab and El Hamam
Date: November 2025 (World AMR Awareness Week) **| Campus / unit:** College of Medicine
With AMSA-AAST and the Drug Information Center, Matrouh East Line, students visited 5 schools and 3 primary healthcare units to run interactive sessions for mothers, patients and

schoolchildren on responsible antibiotic use. The campaign reached more than 500 community members, promoting awareness of antimicrobial resistance and the importance of responsible antibiotic use. The College of Medicine at the Arab Academy for Science, Technology and Maritime Transport (AASTMT) branch in New Alamein hosted students from the College of Medicine at Ahfad University for Women (AUW), within the framework of enhancing academic cooperation and the exchange of expertise between the two institutions.



Vaping Prevention Campaign (Wave 2), Forsan School
Date: 13 November 2025 (school); 16 to 17 November 2025 (campus) | **Campus / unit:** Colleges of Pharmacy, Dentistry and Medicine, Alamein
Led by Dr. Dina Mahdy, students and staff delivered sessions, games and quizzes at Forsan School on the respiratory and oral health risks of e-cigarettes. The initiative engaged approximately 120 school pupils in age-appropriate discussions on tobacco prevention and healthy lifestyle choices, helping to strengthen early health literacy and support tobacco-free behaviors among young people**.**





CPR Workshop for People without Medical Background
Date: 10 December 2025 | **Campus / unit:** College of Medicine (Alamedicine)
A two-hour workshop trained more than 70 community members without a medical background to recognise an unconscious person and give CPR until help arrives.



Sign Language Training for Future Healthcare Professionals
Date: 22 March 2025 | **Campus / Unit:** College of Medicine
College of medicine hosted 20 deaf members of Asdaa Association for the Deaf and Hard of Hearing in Alexandria where medical students communicated with members with sign language to enable them to interact directly with medical students without the need of interpreters. The event was held at the closing of the sign language elective course. The program was supported by faculty members and certified sign language instructors and this course reflects the college commitment to improve healthcare accessibility for people with disabilities.

Beneficiaries: Approximately 30 medical students completed the elective course and participated in direct interaction activities with 20 members of the deaf and hard-of-hearing community.



Dental Convoys Serving Underserved Communities
Date: 22 October 2024 | **Campus / Unit: College of Dentistry**
The College of Dentistry-El Alamein continued its commitment to community health through regular dental convoys designed to provide essential oral healthcare services to underserved populations. Led by faculty members and supported by dental students, the convoys delivered dental examinations, preventive interventions, oral health education, and treatment services to community members with limited access to healthcare. These initiatives reflect the college's ongoing commitment to social responsibility and improving oral health outcomes while giving students practical experience in community dentistry and public health service.



AASTMT College of Dentistry supports Ministry of Health with specialized training in Marsa Matrouh
Date: October 2024 | **Campus / Unit:** College of Dentistry-El Alamein
The College of Dentistry-El Alamein at AASTMT delivered a specialized training course for healthcare professionals from the Ministry of Health</Ministry of Health

in Marsa Matrouh. The program aimed to enhance participants' clinical knowledge and professional skills through targeted dental education and capacity-building activities. The initiative supported workforce development in the healthcare sector and strengthened collaboration between academic and public health institutions, contributing to improved healthcare service quality in the region.
Estimated trainees: Approximately 20–25 healthcare professionals.



Health Sciences Workshops for High-School Students
Date: 4 August 2024 (before the window) | **Campus / unit:** Admission and Registration, Alamein
High-school students took part in microbiology, pharmaceutics and pharmacology workshops, including preparing an antiseptic gel and measuring pulse rates.



Current Collaborations with Health Institutions:

AASTMT demonstrates a strong commitment to improving health and well-being through a broad network of local, national, and international collaborations with universities, hospitals, healthcare providers, and research institutions. These partnerships span multiple disciplines, including pharmacy and medicine, and involve academic institutions across Europe, Asia, Africa, and North America, alongside Egyptian universities and healthcare entities. Through its current Memoranda of Understanding and cooperation agreements, AASTMT promotes joint research, academic exchange, professional training, and collaboration with healthcare institutions.

Industry–Academia Collaboration and Pharmaceutical Industry Training – Vitabiotics Egypt
As part of the ongoing collaboration between AASTMT and Vitabiotics Egypt, five outstanding Pharmacy students from the Main Campus successfully completed an intensive one-week training program in September 2024. The program provided hands-on exposure to modern pharmaceutical manufacturing technologies and key industry practices, covering Quality Management Systems (QMS), Good Manufacturing Practices (GMP), Good Hygiene Practices (GHP), Quality Assurance (QA), Health, Safety and Environment (HSE), Quality Control (QC), and Research and Development (R&D). The training strengthened the link between academic learning and industrial practice, equipping students with valuable practical knowledge and insights into international pharmaceutical manufacturing standards.



Clinical Training Collaboration with Ayady Al Mostaqbal Oncology Hospital
As part of the ongoing collaboration between AASTMT and Ayady Al Mostaqbal Oncology Hospital, female Pharmacy students from Al-Ahfad University, Sudan, hosted by AASTMT, participated in a specialized clinical training visit to the hospital. The visit provided practical exposure to oncology pharmacy services, including chemotherapy dose calculations and cancer treatment preparation, highlighting the partnership's role in advancing clinical pharmacy training and healthcare education.



Collaboration with Pharco Pharmaceuticals in Pharmaceutical Manufacturing Training
As part of the ongoing partnership between AASTMT and Pharco Pharmaceuticals, 20 Pharmacy students participated in an industrial training visit to Pharco on 1 December 2024, focusing on Good Manufacturing Practices (GMP). The initiative provided students with direct exposure to pharmaceutical manufacturing operations and strengthened the collaboration between academic education and the pharmaceutical industry.



Academic–Healthcare Collaboration with the Armed Forces Medical Complex
Under the established cooperation protocol between AASTMT's Faculty of Pharmacy and the Armed Forces Medical Complex in Alexandria, fourth-year Pharmacy students participated in a practical training program at Mostafa Kamel Military Hospital. The successful completion of the program and the award

of training certificates on 3 November 2024 highlighted the ongoing institutional collaboration, which aims to strengthen clinical training, bridge academic education with professional practice, and enhance students' readiness for the healthcare sector.



International Academic Partnership – Al-Ahfad University, Sudan
On 7 October,2024, AASTMT's Faculty of Pharmacy – Main Campus welcomed female students from Al-Ahfad University, Sudan, who joined the Academy to complete the final two years of their Pharmacy studies. An orientation program was organized to introduce the students to the faculty's academic facilities, research laboratories, pharmaceutical manufacturing training unit, virtual patient simulation system, and AI-assisted drug design and synthesis facilities. The visit also included meetings with academic leadership and faculty members to discuss academic arrangements and student support. This partnership reflects AASTMT's commitment to international academic collaboration, student mobility, and cross-border educational opportunities in pharmaceutical sciences.



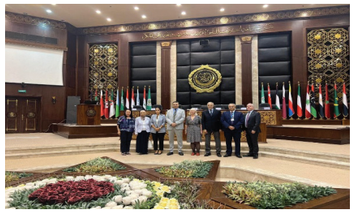
International Academic and Research Collaboration with the University of Monastir, Tunisia
AASTMT's Faculty of Pharmacy – Main Campus welcomed a delegation from Tunisia, including the Dean of the Faculty of Medicine at the University of Monastir and a representative of the Health Care Innovation Cluster, to explore opportunities for academic and research collaboration. The visit highlighted the faculty's advanced educational and research facilities and provided a platform for exchanging expertise and exploring potential partnerships in pharmaceutical education, healthcare innovation, and scientific research.



International Academic Collaboration and Practical Training – Belarusian State Medical University
In September 2024, four Pharmacy students from AASTMT's Main Campus participated in an introductory practical training program at Belarusian State Medical University, held from 8–14 September 2024. The program provided students with opportunities to enhance their practical skills in pharmaceutical and medical sciences, gain international academic exposure, and benefit from hands-on training in an international educational environment. This initiative reflects AASTMT's commitment to international academic cooperation, student mobility, and strengthening graduates' professional readiness.



International Academic Collaboration with the University of Central Lancashire (UCLan), UK
On 25 September 2024, AASTMT welcomed a high-level delegation from the University of Central Lancashire (UCLan), UK, headed by Professor Cathy Jackson, Deputy Vice-Chancellor for Health and Campus Development, at its Abu Qir Main Campus. The visit aimed to strengthen academic cooperation in the medical and healthcare sectors and explore opportunities for joint academic programs and collaborative research projects, particularly in medical education and health technologies. The meeting provided a platform for exchanging expertise and developing future academic and research partnerships between the two institutions.



Pharmaceutical manufacturing Certificate: Gabriele d'Annunzio University, Italy, with Alexandria University
Two fifth-year AASTMT Pharmacy students successfully completed an international pharmaceutical industry training programme organized by the Faculty of Pharmacy, Alexandria University, in collaboration with Università degli Studi "Gabriele d'Annunzio," Italy. The programme offered a professional certificate in Pharmaceutical Manufacturing Excellence and included practical training delivered by experienced academics and pharmacists from Egypt and Italy. This initiative provided students with valuable hands-on experience in pharmaceutical manufacturing, strengthened international academic and professional exchange, and supported their preparation for careers in the pharmaceutical industry.





Erasmus+ Academic and Student Exchange Collaboration with Sapienza University of Rome, Italy
As part of the EU-funded Erasmus+ project, the AASTMT College of Pharmacy hosted a delegation from Sapienza University of Rome from 6–8 July 2025 for a joint workshop and research facilities visit to strengthen academic and research collaboration. Building on this partnership, seven fourth-year Pharmacy students received Erasmus+ scholarships to study at Sapienza University during the first semester of the 2025/2026 academic year, expanding opportunities for international academic exchange and student mobility.



Shared Sports Facilities:

Swimming and Football School for Children of AASTMT Employees and the Surrounding Community
AASTMT established a summer sports school for the children of Academy employees and members of the surrounding community. The programme offered swimming sessions in the evenings and a range of games and sports activities throughout the mornings, providing children with opportunities for physical activity, skill development, and healthy recreation.



Medical Support During Sporting Tournaments
Medical teams provide on-site support during sporting tournaments and events, helping to safeguard participants' health and respond to medical needs throughout the competitions.



International Youth Sports Championships Hosted by AASTMT
AASTMT hosted the World Youth Championship for Under-15s alongside the First Arab Modern Pentathlon Championship, welcoming more than 350 participants from 26 countries. By providing its sports facilities for these international competitions, the Academy supported opportunities for young athletes to compete, encouraged international sporting exchange, and strengthened its role in promoting sports within the wider community.



Sexual and Reproductive Health Care Services for Students:

AASTMT supports the health and well-being of its students and staff through accessible healthcare services and health-awareness initiatives. In particular, the Academy provides free sexual and reproductive health awareness and support, helping students access relevant information, guidance, and support to make informed decisions about their health. These efforts are complemented by educational activities and awareness events that promote preventive healthcare and overall well-being.

SCORA 101 – Raising Awareness of Sexual and Reproductive Health and Rights
The AASTMT student community was introduced to SCORA, the Standing Committee on Sexual and Reproductive Health and Rights, including HIV and AIDS. The initiative aims to raise awareness of sexual and reproductive health issues, promote health education, and encourage student engagement in related awareness activities. (Octobre 2024)

Voices vs. Violence – Awareness of Gender-Based Violence and Child Marriage
The initiative raised awareness of gender-based violence (GBV) in healthcare settings and child marriage, encouraging open discussion and greater

understanding of these critical issues. It aimed to empower participants to speak up, promote awareness, and support efforts to prevent violence and protect vulnerable groups. (November 2024)



World AIDS Day – HIV Awareness and Anti-Stigma Activities
In recognition of World AIDS Day on 1 December, AASTMT organized several awareness sessions and educational workshops to promote understanding of HIV and AIDS, support people living with HIV, and address stigma and discrimination. The activities emphasized compassion, human rights, and the importance of community engagement in working towards ending AIDS as a public health threat by 2030.





Mental Health and Sexual and Reproductive Health Awareness for Survivors of Gender-Based Violence

The session explored the psychological impact of gender-based violence on survivors, with particular attention to female genital mutilation (FGM) as a violation of sexual and reproductive health and rights. It highlighted the connection between FGM, trauma, and mental well-being, emphasizing the importance of awareness, survivor support, and access to appropriate care.



Mental Health Support for Students:

AASTMT Clinic offers comprehensive medical services in diverse health fields and partners with reputable hospitals, pharmacies and clinics.

Medical & Mental Health Clinics
Its Medical Services Department operates on-campus clinics offering free professional support for emotional, psychological, and mental health concerns

Programs & Awareness Workshops
El Alamein branch organizes regular mental health workshops, such as "Take Care of Your Mental Health" on World Mental Health Day

Access to Free Support:

Free Psychological Support at AASTMT Medical Services Clinics
Date: Ongoing | **Campus / unit: [Alexandria-Cairo-Portsaid]**
The Medical Services Department runs on-campus clinics that give students free professional support for emotional, psychological and mental health concerns.

Counselling and Mental Health Staff at the Accessibility Center
Date: Ongoing | **Campus / unit:** Alexandria
The Accessibility Center in Alexandria includes counselling and mental health staff who work with welfare and disability advisers to support students with mental health difficulties.

Signposting to National Free Services
Date: Ongoing | **Campus / Unit:** All Campuses
AASTMT promotes student well-being by signposting students to free national mental health and addiction support services provided by the General Secretariat of Mental Health and Addiction Treatment (GSMHAT), including psychological counseling, psychiatric care, addiction treatment, and referral services. Students are encouraged to access the national 24/7 Mental Health Support Hotline (16328) for free psychological support, crisis intervention, and referral to specialized mental health services.
Beneficiaries: All AASTMT students across campuses.

Active Promotion of Good Mental Health:

"Take Care of Your Mental Health": World Mental Health Day workshop
Date: 10 October 2024 | **Campus / Unit:** Alamein Campus
As part of the World Mental Health Day activities, Student Affairs at the Alamein Campus organized the "Take Care of Your Mental Health" workshop to raise awareness of mental well-being among approximately 80 students. The workshop addressed the importance of mental health, stress management, emotional resilience, self-care practices, and seeking professional support when needed. Interactive discussions encouraged students to adopt healthy coping strategies and maintain a balanced lifestyle.

Psychological Awareness Workshop on Depressive Disorder
Date: 6 March 2024 | **Campus / unit:** Alamein
A workshop on the signs, risk factors and

treatment of depression, with practical guidance on stress management, mindfulness and help-seeking.



Mental Health Support for Staff:

Access to Free Support:

Mental Health Care under the Staff Medical Insurance Scheme
Date: Ongoing | **Campus / unit:** All campuses
AASTMT supports staff well-being through its healthcare and medical services system, which provides access to healthcare consultations and referral services through the Medical Services Department. Staff members can obtain medical support through the Academy's healthcare arrangements and are directed to appropriate specialist services when required.

Active Promotion of Good Mental Health:

Seminar: "Improving Mental Health in the Workplace"
Date: October 2024 | **Campus / unit:** Geneklis
Dr. Kamal El-Fawal, consultant in psychiatry and neurological disorders, led a seminar for approximately 50 staff members on the role of mental health in workplace performance and productivity.



Smoke-Free Policy:

AASTMT Smoke-Free Policy
Date: Approved / Reviewed: 2024 | **Campus / unit:** All Campuses and Facilities
Smoking is prohibited in all indoor facilities, academic buildings, administrative offices, laboratories, libraries, healthcare facilities, and enclosed public spaces across AASTMT campuses. The policy applies to students, staff, faculty members, visitors, and contractors. Designated smoking areas are provided in selected outdoor locations away from building entrances, pedestrian pathways, and ventilation systems. The use of electronic cigarettes, vaping devices, and other smoking-related products is subject to the same restrictions as conventional tobacco products. Compliance is monitored by campus security and administrative authorities. Violations may result in disciplinary measures in accordance with AASTMT regulations, including written warnings and other sanctions for repeated non-compliance. The policy is approved and enforced by the University Administration to promote a healthy, safe, and smoke-free learning and working environment.

Smoking Ban in the Student Code of Conduct
Date: available online during reporting period | **Campus / unit:** All campuses
Smoking is banned under Article 17, Chapter 2 of the Student Code of Conduct. Violations lead to disciplinary measures under Article 13, Chapter 3.

Implementation (supporting):

Vaping Prevention Campaign (Wave 2)
Date: 13 to 17 November 2025 | **Campus / unit:** Alamein campus and Forsan School
The second wave of vaping initiative campaign was led by Dr. Dina Mahdy as a collaboration between colleges of Pharmacy, Dentistry and Medicine. Three staff members and 6 pharmacy students presented Sessions on nicotine dependence, the oral and respiratory effects of e-cigarettes and the harmful chemicals in vaping products, with myth-versus-fact games and quizzes, at Forsan School and on the Alamein campus.



UPCOMING GOALS

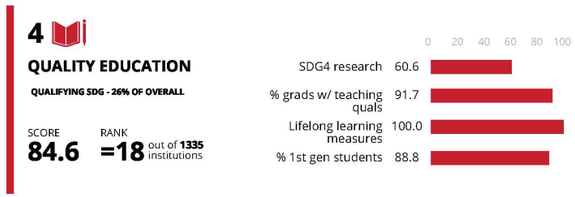
AASTMT aims to further strengthen its contribution to SDG 3: Good Health and Well-being by expanding collaborations with national and international hospitals, clinics, and universities to enhance healthcare training, research, and community engagement. Future priorities include developing health awareness initiatives addressing mental well-being, disease prevention, and healthy lifestyles, alongside strengthening campus-based health and wellness activities. The Academy also seeks to expand its community outreach through medical convoys, health screening activities, and mobile healthcare initiatives, particularly in rural and underserved areas, to improve health awareness and support the well-being of the wider community.

GOAL 4 - QUALITY EDUCATION

OUR AIM IN 2024-2025

- Provide free learning opportunities, certificates and selected digital resources to people beyond the enrolled student population.
- Expand public educational events, including lectures, conferences, workshops and community learning activities.
- Deliver programmed and ad-hoc vocational training aligned with workforce and industry needs.
- Reach schools, young learners, refugees and other external communities through educational outreach.
- Strengthen partnerships with professional bodies, civil society and international organizations.
- Document eligibility, access arrangements, dates and supporting evidence for each activity.

THE IMPACT RANKING SCORES 2023-2024



KEY MILESTONES IN 2024-2025

AASTMT documented lifelong-learning provision across technical education, professional development, public scientific engagement and community outreach. The evidence shows contributions by academic colleges, the Regional Informatics Center, the Industry Service Complex, the Technical and Vocational Institute, the Productivity and Quality Institute and student organizations.

Free Learning and Access

- Four free artificial-intelligence workshops were launched with Bibliotheca Alexandrina, with participation certificates offered.
- The Hands-on Electronics for Kidzineers workshop involved 40 children aged 8–10.
- Five SME digital-transformation courses reached 60 trainees between February and April 2025, with Caritas Egypt cooperation and International Labour Organization funding.

Public Engagement and Outreach

- The public-events dossier contains 36 grouped entries covering scientific conferences, lectures and educational activities.
- The outreach dossier reports 93 entries spanning school engagement, robotics, informatics competitions and community training.
- Reported outreach reach includes approximately 85,000 Beaver Egypt participants and more than 8,000 participants across the ECPC competition cycle; these are distinct programme measures.



Public learning and technical education activities



Professional and vocational training activities



Practical educational access and hands-on learning

LIFELONG LEARNING PROGRAMS

Professional & Vocational Development
The Academy's specialist institutes deliver programmed and ad-hoc learning in healthcare governance, quality management, technical skills, safety and digital transformation. The vocational-training dossier reports more than 100 activities across the wider institutional provision. Its institutional totals include historical cumulative reach and should not be interpreted as 2024–2025 attendance.

- Healthcare and Hospital Governance Professional Diploma invitation (January 2025).
- Patient Safety workshop delivered by the Productivity and Quality Institute (October 2024).
- Graduation of the second GAHAR EGYCAP healthcare-accreditation cohort (May 2025).
- Digital transformation for small and medium enterprises: five courses and 60 trainees (February–April 2025).

Inclusive Workforce Learning
Partnerships with Caritas Egypt and other development organizations supported technical and vocational training for refugee and underserved communities. The public-resources evidence includes occupational safety training for 43 Sudanese participants, and a memorandum of understanding with Caritas Egypt to support refugee training.

PUBLIC ACCESS TO EDUCATIONAL RESOURCES

Free Courses Leading to Certificates or Awards
Documented examples include artificial intelligence, electronics, robotics, engineering and programming activities. The free AI workshop series was organized with Bibliotheca Alexandrina; the Electrical and Control Engineering Summer Camp included four practical workshops and participation certificates.

Access to Campus Facilities and Equipment
External learners can access selected libraries, laboratories and specialized equipment through organized activities and applicable access arrangements. AASTMT Libraries & Information Services Center reports 12 branches, more than 90,000 printed books, access to over 223,000 electronic journals and 150,000 e-books. External library visits require an official institutional or organizational request; access is not unrestricted.

Open Online Resources
The source dossier reports an open-access collection of 31,710 resources, an AAST E-Learning channel with 99 videos and more than 240,000 cumulative views, and a Robotak initiative with over 32,600 subscribers. These are cumulative platform measures, not annual unique learner counts. Subscribed databases remain subject to their own access conditions.

COMMUNITY ENGAGEMENT & PUBLIC EVENTS

The 4.3.2 dossier groups 36 public-facing lifelong-learning entries across scientific conferences, public lectures, professional workshops and related educational activities. Examples include:

- 14th International Maritime and Logistics Conference (MARLOG 2025), February 23–25, 2025.
- International Conference on Machine Intelligence and Smart Innovation (ICMISI 2025), May 10–12, 2025.
- 34th International Conference on Computer Theory and Applications (ICCTA 2024), December 14–16, 2024.
- Fourth Marine and Offshore Industry Assembly, December 23, 2024.



Public academic and community engagement event

EDUCATIONAL OUTREACH BEYOND CAMPUS

STEM, Informatics and Robotics
The 4.3.4 evidence dossier reports 93 education-outreach activity entries. Its Regional Informatics Center activities include RoboCup Egypt 2025 (April 16–19, 2025) and selection rounds for the International Olympiad in Informatics 2025 (January 24–25, 2025). The Kidzineers electronics workshop offered practical STEM learning for schoolchildren.

Schools and Community Beneficiaries
Outreach included school visits, competitions, external professional education, and training with community partners. The evidence reports approximately 85,000 Beaver Egypt participants and more than 8,000 participants across the ECPC competition cycle. These figures refer to separate programmes and are not added together here.

Partnerships and Access

AASTMT worked with schools, professional organizations and civil-society partners. The scope of participation varies by activity; programmes for selected schools or beneficiary groups should be described as targeted outreach rather than universally open public access.



Robotics and youth educational outreach

INCLUSIVE EDUCATION AND PARTICIPATION

The evidence describes education for external learners and targeted beneficiaries, including schoolchildren, professionals, refugees and participants seeking digital and technical skills. Collaborations with Caritas Egypt, UNHCR, GIZ and other partners are reported in the public-resources and vocational-training materials.

Women In Science and Learning Networks
AASTMT's partnership with UNESCO's Regional Office for Egypt and Sudan supports the Arab Women in Science (AWSci) platform. The platform offers peer mentorship and coaching, while its Community Knowledge Bank gives registered members access to scientific publications.

Evidence Interpretation
Participation figures, online views, subscribers, library holdings, institutional historical totals and the number of activities measure different dimensions of educational provision.



Participants in education outreach activities

PRIORITIES FOR THE NEXT REPORTING CYCLE

- Continue to document free public learning opportunities and distinguish them from activities with eligibility or registration restrictions.
- Record programme dates, participant groups, completion status and certificate availability consistently.
- Maintain accessible evidence links for each public event, training activity and outreach programme.
- Expand partnerships that provide practical learning to external and underserved groups.

EVIDENCE AT A GLANCE

Indicator	2024–2025 Coverage
Public resources	Free certificate activities; access to learning facilities; open online resources
Public events	More than 35 grouped public-facing lifelong-learning entries
Vocational training	More than 100 activities reported across wider institutional provision
Education outreach	More than 90 reported activity entries, including recurring and one-off programmes

GOAL 5 - GENDER EQUALITY

OUR AIM IN 2024-2025

As part of its commitment to sustainable development goals, AASTMT highly promote gender equality through creating an inclusive atmosphere that encourages and facilitates the full involvement of all genders in both academic and professional efforts.

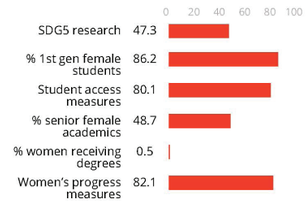
THE IMPACT RANKING SCORES 2023-2024

THE IMPACT RANKINGS

5 GENDER EQUALITY

SCORE 58.5

RANK 201–300 out of 1095 institutions



KEY MILESTONES IN 2024-2025

Regarding SDG 5: *Gender Equality*, AASTMT has made significant progress in promoting gender equality throughout the 2024–2025 academic year. This progress is the result of targeted actions and strategic initiatives aimed at fostering an inclusive culture and ensuring equal opportunities for all members of our academic community, regardless of gender.

The 2024–2025 institutional data submitted to the THE Impact Rankings confirm this progress: women made up 56.9% of new entrants (5,241 of 9,213 students starting a degree), including 4,762 first-generation women; 3,535 women graduated (32.6% of 10,846 graduates), with women earning 58.4% of Medicine degrees (422 of 722) and 1,075 STEM degrees; and women hold 44.1% of senior academic positions (965 of 2,188).

One of the key areas of focus has been the implementation of *Women's Access Schemes*, which include tailored mentoring programs, scholarships, and other support mechanisms designed to empower women students. These initiatives have created pathways for women to thrive academically and professionally, addressing potential barriers to their success.

Additionally, AASTMT has introduced policies and programs that actively promote gender inclusivity within its governance, faculty, and student body. This includes leadership development opportunities for women, workshops on gender equity, and the integration of gender equality principles into the curriculum and institutional practices.

Our commitment extends beyond the academic sphere, as demonstrated by proposals such as the establishment of an on-campus nursery. This facility aims to support students, faculty, and staff with young children, thereby reducing gender disparities in work and study environments by alleviating the childcare burden often disproportionately shouldered by women.

Through these focused actions, AASTMT not only supports the goals of SDG 5 but also positions itself as a leader in the promotion of gender equality in higher education. Our continued dedication to these significant objectives ensures that we are building an academic community where everyone has the opportunity to succeed and contribute meaningfully.

COMMUNITY ENGAGEMENT

In the 2024–2025 academic year, AASTMT dedicated significant efforts to community-centered initiatives aimed at addressing Sustainable Development Goal (SDG) 5: *Gender Equality*. These initiatives emphasized the empowerment of women and the promotion of gender equality across various sectors, focusing particularly on enhancing literacy, fostering lifelong learning, and bridging educational gaps in under-resourced areas. Key Initiatives and Achievements:

1. Literacy and Educational Programs:
AASTMT launched targeted literacy programs designed to improve educational outcomes for women and girls in underserved communities. These programs provided essential literacy skills, fostering greater independence and opening up new opportunities for personal and professional growth.

2. Lifelong Learning Opportunities:
Recognizing the importance of continuous education, AASTMT implemented workshops and training sessions aimed at women of all ages. These sessions covered topics such as digital literacy, vocational skills, and entrepreneurial training, equipping participants with the tools needed to adapt to evolving economic landscapes.

3. Community Engagement and Partnerships:
AASTMT actively collaborated with local organizations, NGOs, and governmental bodies to expand the reach and impact of its gender equality initiatives. By involving students and external partners, the Academy facilitated a community-driven approach to sustainable development, ensuring that programs were tailored to meet the specific needs of local populations.

4. Workshops & Awareness Campaigns:
To foster a deeper understanding of gender equality, AASTMT organized a series of workshops and awareness campaigns on campus and in local communities. These events focused on challenging gender stereotypes, promoting inclusive practices, and encouraging dialogue about the importance of equal opportunities in education and the workforce.

5. Support for Under-Resourced Areas:
Special attention was given to regions with limited access to quality education. AASTMT deployed resources and expertise to these areas, establishing educational hubs and providing access to learning materials and technology. This helped to bridge the educational divide and empower women in marginalized communities.

Through these comprehensive initiatives, AASTMT not only advanced the goals of SDG 5 but also reinforced its role as a catalyst for positive change in society. By prioritizing gender equality and integrating community-centered approaches, the Academy continues to make significant strides in promoting a more inclusive and equitable educational landscape.

Here are some women's mentoring schemes:

Professional Development Workshops:

Through workshops on leadership, negotiation, and career planning specifically for women (AASTMT)

- **EmpowerHER**
- **Mentorship Hub**
- **Workshops & Webinars page**
- **Arab Women in Science platform launch with UNESCO (2 Jun 2025) news**
- **Arab Women in Science (AWSci) mentoring & fellowships platform**
- **Arab Women in Maritime Association (AWIMA – General Secretariat hosted at AASTMT)**
- **Negotiation Skills**
- **Arab Institute for Leadership Development (AILD)**

Alumni Mentorship Networks:

Creating networks where women alumni mentor current students, sharing their learning experience, and providing insights into career paths and opportunities (AASTMT)

- **AASTMT Alumni –** FAQ / networking benefits:
- **EmpowerHER Mentorship Hub:**

Mentorship for Underrepresented Groups (24/25):
Focusing on mentoring females from marginalized faculties or communities

- **(policy & practice pages + 2024/25 activities):**
- **(10.6.3 underrepresented groups recruit);**
- **(10.6.6 support for underrepresented groups);**
- **(5.3.4 women's application in underrepresented subjects);**
- **(EmpowerHER Mentorship Hub);**
- **(Arab Women in Science platform launch with UNESCO, 2 Jun 2025).**

EVENTS

AASTMT women-focused events in 2024/25:

10 Nov 2024 — Alumni Association celebrates Alumna Salma Fawzy (College of Artificial Intelligence, Class of 2023)

The AASTMT Alumni Association congratulated Salma Fawzy, a member of the first graduating class of the College of AI, on being awarded the title of Best Graduate Student at Dalian Maritime University (China) — a visible role model for women in technology.



25 Mar 2025 — Mother's Day Celebration honouring Female Staff (Heliopolis Campus, Cairo)
The Social Activity Department of Student Affairs organized a Mother's Day event across all colleges to honour mothers and recognize their contributions; female staff received gifts in appreciation of their efforts, and deans and faculty members were presented with flowers for their educational role.



2 Jun 2025 — UNESCO × AASTMT launch of the "Arab Women in Science" (AWSci) Platform (Smart Village, Cairo)
UNESCO launched from Cairo, in cooperation with AASTMT, the region's first digital platform of its kind to raise the visibility and participation of Arab



16 Jun 2025 — Graduation of Ahfad University for Women (AUW) Medical Students at AASTMT New Alamein
Building on the 2024 AASTMT–AUW cooperation protocol, the Academy celebrated the graduation of a new batch of AUW (Sudan) medical students who completed their studies at AASTMT. Attended by the Governor of Matrouh, Sudan's Ambassador to Cairo and both presidents, the partnership was described as a "lifeline" for the students during the conflict in Sudan.





2 Jul 2025 — Alumna and Olympic champion Sara Samir honoured on International Women's Day
AASTMT celebrated its alumna Sara Samir, who received a special tribute from Egypt's First Lady alongside a group of distinguished Egyptian women, describing her as a trailblazer and role model for Egyptian women.



27–31 Jul 2025 — Arab Women in Maritime Association (AWIMA) Regional Workshop & AGM (Alexandria)
AWIMA — whose General Secretariat is hosted at AASTMT's Abu Qir campus — held a week-long workshop co-organised by the Egyptian Authority for Maritime Safety and the IMO, with WMU support. 30+ women maritime officials from across the Arab region finalized a five-year regional strategy and action plan for women's participation in maritime; the AGM elected a new President and Governing Council.



31 Aug 2025 — Alexandria National Day honours Salma Fawzy, the City's First Female AI Graduate.
Honoured in the presence of the Governor of Alexandria and the AASTMT President, Salma Fawzy is the first graduate of AASTMT's College of AI (El-Alamein), top of her class, holder of a Master's in AI from Dalian Maritime University and a fully funded PhD scholarship at the University of Barcelona; she founded the AAST Robotics Club and the Sky Club for youth leadership.



31 Aug 2025 — Alumna Bassant Hemida wins Gold at the Bern Athletics Meeting (Switzerland)
The AASTMT Alumni Center congratulated Bassant Hemida, a graduate of the College of International Transport & Logistics, on winning the 400 m gold medal in 51.64 seconds.



UPCOMING GOALS

In alignment with our commitment to Sustainable Development Goal (SDG) 5: *Gender Equality*, we propose the establishment of an on-campus nursery at the Smart Village Campus. This initiative aims to address one of the key barriers to gender equality in both academic and professional settings: the challenge of balancing childcare responsibilities with educational and career advancement.

By providing an accessible and high-quality nursery, we offer crucial support to students, faculty, and staff members who have young children. This facility will not only ease the burden of childcare but also enable parents, particularly women, to pursue their academic and professional goals without the added stress of finding reliable childcare off-campus. This, in turn, promotes greater participation and retention of women in higher education and the workforce.

The on-campus nursery will be designed to offer a safe, nurturing, and stimulating environment for children, ensuring their well-being and development while their parents are engaged in academic or professional activities. Additionally, it will contribute to a more inclusive and supportive campus culture by recognizing and addressing the diverse needs of our community members.

This initiative reflects our broader commitment to fostering a work and study environment where gender equity is prioritized, enabling all individuals, regardless of their family responsibilities, to fully participate and excel in their roles. By integrating this supportive resource into the campus infrastructure, we are taking a significant step toward creating a more balanced and equitable environment for everyone at the Smart Village Campus.

GOAL 6 - CLEAN WATER AND SANITATION

OUR AIM IN 2024-2025

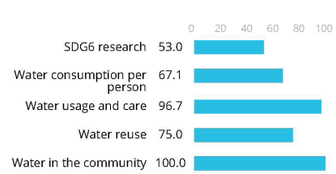
In 2024–2025, AASTMT advanced SDG 6 through water conservation and pollution prevention on and off campus. The Academy planted 50 drought-tolerant shrubs at El Alamein and produced 15 tonnes of compost for lawn fertilization to help retain soil moisture and reduce irrigation demand. In Sohag, AASTMT helped oversee three sanitary landfill projects designed to reduce the risk of groundwater contamination. In Alexandria, students helped remove litter from the Eastern Harbour, while the TOuMaLi project demonstrated beach-cleaning and litter-monitoring methods to policymakers to help protect coastal water quality. AASTMT also contributed to training for local drinking water and wastewater professionals. A South Valley Campus student placed fifth in the Emerging Engineers 2025 Award for a concrete cooling and heat recovery project based on water regeneration and reuse.

THE IMPACT RANKING SCORES 2023-2024

THE IMPACT RANKINGS

6 CLEAN WATER AND SANITATION

SCORE **77.3** RANK **=97** out of **797** institutions



KEY MILESTONES IN 2024-2025

AASTMT Supports Groundwater Protection through Three Sanitary Landfill Projects in Sohag

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) helped oversee three sanitary landfill projects in Juhayna, Dar El-Salam and Edfa as part of Sohag Governorate's integrated solid waste management programme. AASTMT served on the joint committee responsible for monitoring infrastructure works and overseeing their handover, alongside government and technical partners. Egypt's Ministries of Environment and Local Development handed over the Juhayna landfill cell on 16 November 2024. The EGP 60 million facility covers 10 feddans and serves Juhayna and El-Maragha. The ministries also announced the handover of the Dar El-Salam landfill, which will receive residual waste from the local treatment plant, and the preliminary handover of the Edfa landfill, which will serve Sohag city and district. The facilities support safe solid waste disposal and help manage leachate, the liquid that drains through waste. The Dar El-Salam and Edfa sites include dedicated leachate drainage channels designed to reduce the risk of groundwater contamination. Through its work on the joint committee, AASTMT supported water pollution prevention and the protection of groundwater resources beyond campus.





TOuMaLi Project Brings AASTMT and Parliament Committee Together to Tackle Marine Litter in Alexandria

TOuMaLi (Prevention of Tourism Marine Litter) is a project that aims to reduce tourism-related waste entering the sea. In Alexandria, AASTMT combines beach cleaning with systematic litter monitoring to identify where waste accumulates and guide efforts to protect coastal water quality. As part of the project, AASTMT hosted the Egyptian Parliament's Local Development Committee for a field visit to Alexandria's beaches on 27 June 2025. The team demonstrated beach-cleaning equipment and explained how it collects, records and analyses litter along the coastline. These data help identify priority areas for clean-up and guide measures to prevent waste from reaching coastal waters. Committee members reviewed the pilot activities and discussed how legislative support could help extend these practices to other coastal areas in Egypt. The visit gave policymakers a first-hand look at how field data can inform waste management and water pollution prevention.



COMMUNITY ENGAGEMENT

AASTMT Promotes Water Awareness in the Wider Community through the "By Fisher to Fisher" Initiative

On 21 December 2024, students from AASTMT's Port Training Institute and College of Fisheries and Aquaculture Technology joined the "By Fisher to Fisher" initiative at Alexandria's Eastern Harbour. As part of the "Green & Clean" campaign, they helped remove litter from the harbour and surrounding waters, supporting local fishers and helping protect coastal water quality. The initiative brought together AASTMT, civil society organisations and private-sector partners to collect waste for recycling and raise community awareness of how everyday waste disposal affects shared waters. By linking responsible waste management with water pollution prevention, AASTMT encouraged the wider community to take an active role in protecting water resources.



Strengthening Arab–Japanese Cooperation: Expanding Opportunities for Investment, Trade, and Sustainable Innovation

Published on July 10, 2024, this report highlights remarks by Ahmed Aboul Gheit, Secretary-General of the League of Arab States, at the Arab–Japanese Economic and Business Conference in Tokyo regarding deeper strategic and economic ties. Through public-private partnerships and trade, his address emphasizes expanding two-way investment—particularly for small and medium-sized enterprises—and leveraging the Arab region's strategic maritime routes and infrastructure to drive resilient growth. Praising Japan's ongoing support, he calls for expanded collaboration across key strategic sectors including water management, water resources sustainability, energy transition, artificial intelligence, digital transformation, and education. This vision underscores how international partnerships foster innovation, strengthen knowledge-based economies, and advance sustainable resources management and long-term economic development across both regions.



TRAINING & EVENTS

AASTMT's PQI Contributes to Training for Water and Wastewater Professionals

The Holding Company for Water and Wastewater and the Alexandria Drinking Water Company organised a training course on the Egyptian Government Excellence Model at the company's Regional Training and Consultancy Centre. A specialist lecturer from AASTMT's Productivity and Quality Institute (PQI) contributed to the programme. The course brought together local professionals working in drinking water safety, wastewater services, quality and customer service. Participants explored institutional excellence, performance assessment and Egypt Vision 2030, with the aim of improving the quality and sustainability of water and sanitation services.



From Upper Egypt to International Recognition AAST Student Achieves Top Position in Emerging Engineers 2025 Award

Mahmoud Abdel Aziz Mohamed, a student from the Construction and Building Engineering Department at the Arab Academy for Science, Technology and Maritime Transport's (AAST) South Valley Campus in Aswan, secured 5th place in the Emerging Engineers 2025 Award in the United Arab Emirates among competitors from 38 universities across the Middle East and North Africa. His award-winning research project, titled "Sustainable Cooling and Heat Recovery System for Concrete Structures Using Water Regeneration," introduces an innovative approach to infrastructure development that cools concrete structures while recovering thermal energy through advanced water regeneration and reuse technologies. Integrating circular economy principles and green infrastructure, the system addresses critical challenges in water management, water quality, and climate adaptation, demonstrating how applied engineering research promotes wastewater treatment reuse, optimizes water resources, and advances sustainable resources management in alignment with SDG 6.



AASTMT Tech-Innovation Challenge Highlights AI Solutions for Clean Water and the SDGs

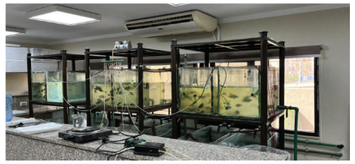
The third round of the Tech-Innovation Challenge 2024 at AASTMT's Smart Village Campus invited students to develop AI solutions for challenges linked to the Sustainable Development Goals (SDGs). Held under the theme "Artificial Intelligence for a Prosperous Life", the competition drew nearly 90 teams and more than 380 students from schools and universities. Twenty school teams and eight university teams reached the finals. Two award-winning projects addressed SDG 6 (Clean Water and Sanitation). RC Water Cleaner placed second in the school track, and Aqua Sense placed third in the university track. Their recognition highlighted how student innovation can contribute to water pollution prevention, water quality monitoring and sustainable water management. The competition also featured projects in agriculture, healthcare and education, giving students a platform to apply AI to practical sustainability challenges.



CAMPUS UPGRADES FOR WATER CONSERVATION

Incorporating a Discharge System and Policy for Safe Aquarium Water Discharge and Pollution Prevention

AASTMT's internal Aquarium Water Recirculation, Reuse and Discharge Policy establish guidelines for responsible water management within the Aquaculture Laboratory at the College of Fisheries and Aquaculture Technology. The policy promotes water conservation through recirculation and reuse, maintenance of appropriate aquarium water quality, and safe wastewater management to minimize pollution and protect aquatic ecosystems. It provides a framework for environmentally responsible laboratory practices and the prevention of harmful discharges into natural aquatic environments. Developed under SDG 14 (Life Below Water), the policy also supports SDG 6 (Clean Water and Sanitation) through its emphasis on water reuse and pollution prevention.



AASTMT Supports Water Quality Protection through Sustainable Organic Waste Management

The AASTMT is advancing sustainable organic waste management through source separation, mechanical composting and vermicomposting. These initiatives support water management and water quality protection by addressing organic waste that, when improperly managed, can contribute to water pollution and threaten groundwater. Organic waste generated by cafeterias, restaurants, student accommodation and campus food services is collected through the Academy's integrated waste management programme. A dedicated composter processes kitchen food residues into organic fertiliser under controlled temperature, moisture and mixing conditions. Complementing this system, vermicomposting uses Eisenia fetida earthworms to transform organic materials into nutrient-rich soil amendments. These practices address the environmental risks associated with uncontrolled organic waste disposal, including potential groundwater contamination. Separating and processing organic waste at source supports a preventive approach to water contamination, alongside the recovery of valuable nutrients and the protection of water resources. During the 2024/2025 academic year, AASTMT's agricultural waste recycling activities produced 15 tonnes of compost, designated for lawn fertilisation. The resulting products support campus landscaping and soil improvement, while reducing waste sent for disposal and encouraging the reuse of organic resources. Through these activities, AASTMT prevents water system pollution. The initiatives demonstrate how responsible management of campus organic waste can support pollution prevention and the protection of surrounding ecosystems.









AASTMT Composter Unit

Water Conservation through Drought-Tolerant Planting and Soil Improvement

The AASTMT enhanced campus green spaces through planting, landscaping and soil improvement activities. At the Alamein Campus, the work included planting palms, shrubs and ornamental plants, alongside improvements to planting beds and landscaped walkways. The plant selection included 50 yellow bells plants (Tecoma stans), a drought-tolerant flowering shrub with relatively low water requirements once established. Incorporating such species supports water conservation, particularly when irrigation management reflects the needs of each plant type. Alongside these activities, AASTMT recycled agricultural waste to produce 15 tonnes of compost, designated for lawn fertilisation. Compost application can improve soil structure and moisture retention, helping reduce irrigation requirements while recovering valuable organic resources.

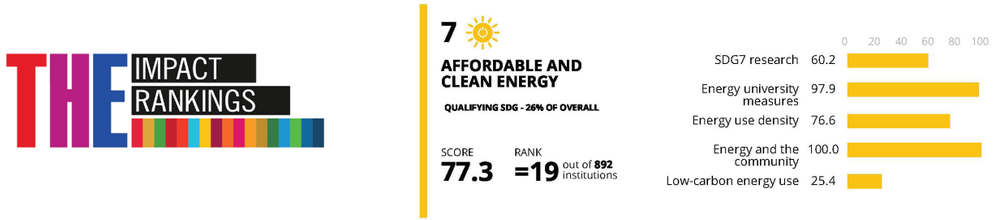


GOAL 7 - AFFORDABLE AND CLEAN ENERGY

OUR AIM IN 2024-2025

In 2024/2025, AASTMT is committed to "Powering Green Sustainability, Cleaning the Future" through an integrated approach that involves seven main pillars. This approach promotes smart energy monitoring, energy conservation and efficiency, renewable energy employment, and carbon reduction. This is further supported by innovative academic programs and laboratory facilities, research and funded projects, and strategic agreements and initiatives. Together, these pillars aim to accelerate transition toward a cleaner, energy-efficient, and sustainable future, reinforcing AASTMT's contribution to SDG 7.

THE IMPACT RANKING SCORES 2023-2024



Powering Green Sustainability, Cleaning the Future
"We Pledge to Advance Clean Energy, Enhance Efficiency, Foster Innovation, and Reduce Carbon Footprint for a Sustainable, Greener Future"



KEY MILESTONES IN 2024-2025

In accordance with *Green Energy and Energy Management Policy*, AASTMT Energy Management Committee puts an integrated seven-pillar plan towards improving energy efficiency and conservation, increasing renewable energy utilization, reducing carbon footprint, and advancing sustainable energy practices across its different branches and campuses during. The effectiveness of *AASTMT 2024/2025 Plan towards Clean Sustainable Energy*, is assessed using *AASTMT 2024/2025 Insights* in different AASTMT branches as discussed in *AASTMT 2024/2025 Energy Progress Report*, to confirm its goal of reflecting AASTMT's integrated approach to powering green sustainability and cleaning the future.

2024/2025 AASTMT Measures towards Affordable and Clean Energy

In 2024/2025, AASTMT has put a seven-pillar plan as discussed in *AASTMT 2024/2025 Plan towards Clean Sustainable Energy* towards green sustainable energy. This can be summarized as follows;

1. **Smart Monitoring and Energy Management:** AASTMT establish effective energy smart monitoring and data-driven plans (ranking of loads guides lighting, HVAC and utility actions) as well as assessment mechanisms to track electricity consumption, perform energy audits and analyze performance indicators. This supports identification of energy-saving opportunities, informed decisions, rationalizing energy consumption and realizing optimized energy management across AASTMT campuses.

2. **Higher Energy Efficiency and Conservation:** AASTMT takes consistent measures that are continuously carried out, besides infrastructure upgrading and renovation plans that are updated yearly. This is reflected in reduction in the energy consumption among all its branches. Check the *AASTMT 2024/2025 Renovation and Upgrading Plan* which discusses renovations and upgrading procedures of different AASTMT Alexandria Campuses in in 2025 along with photos of upgrading 2024/2025.

3. **Renewable Energy Deployment:** To support expansion in renewables employment within its campuses, AASTMT takes consistent measures that are continuously carried out, besides yearly updated ones. This is reflected in the increase of low-carbon sources' share in AASTMT total energy supply. This includes:

4. **Continuous maintenance, routine cleaning and improvements** in the existing solar installations, to maintain and even improve their output power, thus enhancing its energy share in AASTMT consumption. This includes regular annual measures as follows,

   - **Expanding renewable infrastructure** among different AASTMT campuses:

   - **Expanding renewable infrastructure** among different AASTMT campuses:

     - **2kW Vertical Axis Wind Turbine (VAWT):** The Renewable Energy Unit is planning to further expand AASTMT's renewable energy infrastructure through the installation of this wind turbine, funded by an internal AASTMT research grant and to be integrated with the existing PV Plant in Abukir Campus.
     - A proposal to establish a solar power plant and two electric vehicle charging units at Alamein Campus

5. **Carbon Reduction:** AASTMT has put a *Climate Action Plan 2025-2030*, towards reducing Scope 1, 2 and 3 emissions and assessing Carbon Footprint based on GHG Protocol and ISO 14064-1.

6. **Innovative Programs and Lab Facilities:** AASTMT is committed to strengthen practical education, technical training, and students' projects involving innovative clean-energy programs and laboratory facilities. In this regard, the following is achieved in 2025.

   - Continuous improvement to related programs and trainings offered by AASTMT different entities to students and industry as detailed in the link below.

   - Investments in Energy-related LABs intalled in AASTMT different campuses to guarantee continuous maintenance and improvements, thus assisting in consultancy, research and trainings.

   - Encourage renewable energy and decarbonization-related educational events and activities (seminars, workshops, visits and trainings) in 2024/2025.

   - Prioritizing fields of decarbonization and clean energy in graduation projects and Industry Service Complex projects

7. **Research and Funded Projects:** Advance AASTMT's research and innovation capabilities through national and international funded projects addressing clean energy, energy efficiency, and industrial decarbonization.

   - Encourage Staff to Prioritize fields of decarbonization and clean energy in research 2024/2025.

   - Strengthening AASTMT's Renewable Energy and Sustainable Development (RESD)

   - Prioritize renewable energy and decarbonization research projects

- Start preparing for the implementation of the pilots of Interreg NEXT MED projects (RESt4GREEN and GREENOLIVE)

- As per NORPART- AI-ESI Project outcomes, postgraduate students are engaged to conduct AI studies in the fields of renewable energy and decarbonization, by offering opportunities of Fully funded MSc and PhD degrees and mobility in University of Stavanger.

8. **Agreements and Initiatives:** Expand AASTMT's strategic partnerships and institutional initiatives to accelerate the clean-energy transition via cooperation with industry, academia, governmental institutions, and international organizations.

- Put Government Partnership towards renewable energy and climate change measures a priority, especially with Ministries of Environment, Local Development and Finance.

- Activate partnerships and MOUs signed or renewed with industry, in fields of consultancy, trainings and technical cooperation within AAST Industry Advisory Council annual sessions and services offered by AASTMT Productivity and Quality Institute (PQI) and Industry Service Complex (ISC)

- Encourage renewable energy and decarbonization-related campaigns to promote renewable energy and climate action importance beyond AASTM walls. Watch the awareness video of AASTMT initiative campaign "Our Energy, Our Responsibility"

Energy Consumption and Emissions Insights

To assess AASTMT's the previously discussed 2024/2025 measures and verify their effectiveness on energy consumption and carbon emission, detailed AASTMT energy and carbon insights are given in *AASTMT 2024/2025 Insights*

Energy Consumption

Measures, supporting AASTMT's commitment to improving energy efficiency and reducing electricity consumption across different AASTMT branches, are reflected in the reduction in electricity consumption of each branch, as shown in Figure 1, with total consumption reduction by around 2.47%, from 19,055,865 kWh in 2025

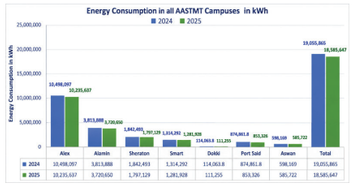


Figure 1. Comparison between 2024 and 2025 energy consumption in all AASTMT branches

Renewable Energy Share Growth

According to the New and Renewable Energy Authority (NREA), Egypt's total installed renewable energy capacity reached approximately 8.6 GW by the end of 2024/2025, compared with approximately 6.8 GW in 2023/2024, reflecting an increase of around 26% [NREA 2025].

Since AASTMT's electricity consumption is supplied mainly by the Egyptian national grid, this growth is reflected on AASTMT energy usage from low carbon sources, as shown in Figure 2, where the average renewable energy share in supplying AASTMT total energy demand from national grid reached almost 26 % in 2025 which is more than the 25.1% in 2024. Besides renewable energy contributed in AASTMT from national grid, energy from solar energy installations across different AASTMT campuses buildings, has increased from 273.6GJ (75989kWh) in 2024 to 286.7GJ (79632kWh) in 2025 i.e. an increase of almost 4.78% from 2024 to 2025. This results in an increase of almost 1.08% in AASTMT total energy usage from

low carbon energy sources (from national grid and solar installations) in 2025 compared to that in 2024.

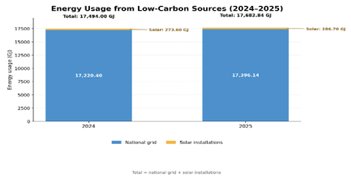


Figure 2. AASTMT Energy usage from low carbon sources in 2024 and 2025

Finally, Table 1 summarizes entire AAST energy supply from national grid and from AASTMT total solar installations, in kWh/m² and GJ/m² from 2024-2025 and the relative energy density in GJ/m². The latter reached about 0.09135GJ/m² in 2025 which is less than the 0.09363GJ/m² in 2024 by almost 2.43%, mirroring AASTMT continuous efforts towards electrical energy conservation and energy efficiency improvement, besides the increase in total energy consumption from low carbon sources by almost 1.08%, reflecting AASST support to transition to clean energy.

Table 1. Energy Density in GJ/m² for the entire AAST in 2024 - 2025

Year	Total Floor Area (m²)	Total energy (kWh) (from Grid + AAST solar infrastructure)	Total energy (GJ) (from Grid + AASTMT solar infra-structure)	Density (GJ/m²)	Energy from low carbon sources (GJ) (from national grid and solar infrastructure)
2024	735569.7	19,131,865	68874.714	0.09363	17494
2025	735569.7	18,665,279	67195	0.09135	17682.84

Carbon Footprint

Under the direction of the President of AASTMT, a multidisciplinary committee coordinated by the Research and Innovation Center assessed the carbon footprint of four AASTMT branches (Abu Qir, Misr El-Gedida, Smart Village and South Valley) for the year 2024/2025, following the GHG Protocol and ISO 140641 as given by *AASTMT Carbon Footprint Report 2024/2025* . It covers Scope 1 (stationary and mobile combustion and fugitive emissions), Scope 2 (purchased energy, including outsourced cooling) and a wider set of Scope 3 sources: purchased goods and services, capital goods, water and wastewater, fertilizers, staff and student commuting, waste, business travel and leased assets.

Compared to 2019–2024 figures which covered only AASTMT Alexandria branch campuses; the 2024–2025 figures cover four AASTMT branches and a wider set of Scope 3 sources, including commuting, business travel, food and other purchased goods and services. The breakdown by campus is given by Table 2 and Figure 3. It is worth noting that Scope 3 makes up 65% of the footprint of the four campuses, Scope 2 up to 27% and Scope 1 up to 8%. Emissions are 1.73 t CO_2e per student, below the global average of 2.67 t CO_2e per student cited in the report. The main sources are commuting, the Abu Qir vehicle fleet, outsourced cooling at Smart Village, food at Abu Qir and refrigerant leakage at South Valley.

Table 2. Breakdown of Carbon Footprint Report 2024/2025 by campus

Campus	Scope 1 (t.CO_2e)	Scope 2 (t.CO_2e)	Scope 3 (t.CO_2e)	Total (t.CO_2e)
Abu Qir	2,470	4,361	10,767	17,598
Misr El-Gedida	177	1,391	8,859	10,427
Smart Village	88.9	4,380	3,695	8,164
South Valley	119.2	307.8	1,637	2,064
Total, four campuses	2,855	10,440	24,958	38,253

COMMUNITY ENGAGEMENT

AASTMT put a lot of efforts towards sustainable community development in 2024/2025. This is reflected in its participation in related research projects and grants, besides its national, regional and international collaborations towards green sustainable energy. Moreover, the university offers paid and free training and consultancy services to government and industry as well as support to startups and innovation.

Research Projects and Grants

AASTMT has participated in a number of related Funded Projects within the years 2024 and 2025.

Project Name	Start date	End Date
RESt4GREEN Energy efficiency, Renewable Energy Sources and smarT energy conservation for improved quality of life and a GREENer Mediterranean	16/07/2025	15/7/2028
GREENOLIVE Solar-driven Decarbonization for Mediterranean Industries	01/09/2025	31/08/2028
PRO-Green-LABs Promoting Integrated Green Competences for Sustainable Development in Architectural Education through Experiential Lab-based, Active Learning	April 2024	March 2026

RURALITIES Climate smart, ecosystem-enhancing and knowledge-based rural expertise and training centres	01/10/ 2023	30/10/2026
AI-ESI Strengthening education and research in Applied Informatics for Energy System Integration	01/01/2022	31/12/2026
GreenMED Green Shipping Pathways Towards a Clean Energy Transition in the Mediterranean	01/10/2023	31/12/2025

Moreover, in 2024/2025, pilots of Interreg NEXT MED projects (RESt4GREEN and GREENOLIVE) which significantly impact industry, research are innovation, are prepared be implemented in 2026

Paid Services by AASTMT

AASTMT offers Paid training and consultancy services through AASTMT different entities as follows;

Productivity and Quality Institute (POI)
Energy and Environmental Management Courses as well as Consultancy service in the form of ISO 50001 Energy management Systems Consultancy Service (EnMS) to a number of corporates

Oil and Gas Certification (OPITO)
OPITO certification is internationally recognized and vital for professionals in oil, gas, maritime, and renewable energy industries. The Arab Academy for Science, Technology and Maritime Transport (AASTMT), College of Engineering and Technology (CET) is the only center in Egypt and North Africa offering this prestigious qualification.

Industry Service Complex (ISC)
AASTMT ISC is a specialized entity established in 2005 to bridge academia and industry. It fosters long-term partnerships that drive technology transfer, applied research, and workforce development. Through advanced industrial solutions, customized professional training programs, and accredited technical education that meet international standards. ISC supports Egypt's industrial sector, enhances local capabilities, and promotes innovation - ultimately creating jobs, reducing reliance on imports, and contributing to sustainable economic development.

Energy Research Unit
AASTMT IOSS is an entity, related to AASTMT energy research unit, that provides many services in the field of innovative renewable energy, all under one roof. Its goal is to provide industry and startups with technical assistance, consulting and networking opportunities required to run a successful and innovative renewable energy project in Egypt.

Free Services by AASTMT Energy Research Unit

Different AAST institutes offered free trainings, workshops and seminars to industry and graduate students. Examples of 2024/2025 Free services offered by AASTMT include;

9/10/2025 From Data to Decarbonization: PyPSA-Earth Workshop	A hands-on workshop trained students and young researchers in energy-system modelling, grid simulation and scenario analysis to support decarbonization and energy transition planning.	
1/8/2025 Advancing Green Hydrogen Technologies and Applications Workshop	Port Said Campus hosted an EU-funded GREEN Project workshop addressing green hydrogen technologies, higher education, technical research and academia–industry collaboration.	
June 2025 Solar Energy Training for Sudanese Students	A solar energy training was organized by AASTMT ISC in collaboration with Caritas Egypt for Refugee trainees from Sudan in the field of solar energy.	
2/12/2024 Egypt Energy Transition Workshop	AASTMT organized a workshop titled: "Towards Egypt's Energy Vision 2030: Egypt's Just Energy Transition: Decarbonization, Electrification, Education, and Access" which was attended a number of faculty members from Egyptian colleges and universities, in addition to industry figures, governmental and advisory bodies.	

AASTMT Participation locally, Regionally, Nationally and Globally

In 2024/2025, AASTMT participated nationally, regionally and internationally through joint co-operations, summits, conferences and events to develop policies, agreements and plans towards energy sustainability and green environment.

AASTMT Cooperation with the Government
With the necessity of being effectively engaging and participating in EGYPT Ultimate Goal of Sustained Transition to Green Energy, AASTMT is keen on the continuous cooperation with different governmental entities in the fields of energy and the environment. Such partnership mirrors AAST key role in supporting community service in such field and sharing its academic knowledge and research capabilities to develop policies and practical solutions that benefit society, such as promoting renewable energy use, improving energy efficiency, and encouraging environmental sustainability. Examples of such cooperation are shown below:

Participation	Overview	
(14 Oct. 2025) **Delegation from Nucleur power plants Authority**	(AASTMT) received a high-level delegation from the Egyptian Nuclear Power Plants Authority at its headquarters in Abu Qir to discuss ways of future joint cooperation.	
(8 Oct. 2025) **Meeting with Minister of Local Development and Acting Minister of Environment.**	A meeting between AASTMT President – Minister of Local Development and Acting Minister of Environment. The meeting reviewed future cooperation and plans in waste management, renewable energy, climate change mitigation, scientific research and capacity building.	
(26 Oct. 2024) **Bilateral cooperation between Egyptian Ministry of Environment and AAST**	The Minister of Environment meets AAST President to discuss joint cooperation and future plans to support environmental initiatives and enhance integration between research and sustainable development.	

Moreover, in 2024/2025 AASTMT participates in joint co-operations, summits, conferences, workshops and events at the national, regional and international side to develop policies, agreements and plans towards energy sustainability and green environment. Examples of such participation are shown below

Participation	Overview	
(27-28 Nov. 2024) UniGreen conference "Shaping a Sustainable Future 2024"	AASTMT participated in the activities of this international scientific conference to present the final results of the UniGreen project that was held during at the Ramses Hilton Hotel, organized by the Academy in cooperation with the Life Makers Foundation.	
(24-27 Nov. 2024) 5th Edition of Arab Sustainable Development Week	AASTMT participated in the 5th Edition of Arab Sustainable Development Week showcasing its commitment to regional collaboration and climate resilience. The event's theme was "Sustainable Solutions for a Better Future – Resilience and Adaptability in an Evolving Arab World"	
(18 Nov. 2024) Climate Summit in Baku, Azerbaijan	Dean of AASTMT Port Training Institute and Maritime Research and Consultation Center participated at the Climate Summit in Baku, Azerbaijan, delivering a keynote on education and climate change. His participation highlighted AASTMT's leadership in sustainable development & international cooperation.	

Support to Startups by AASTMT Entrepreneurship Center

AASTMT Entrepreneurship Center is keen on supporting startups in the field of green economy, energy management, industry efficiency and sustainability, through trainings and spin-offs.

Spin-offs	Preview	Logo
Photon Smart	A fabless IoT manufacturer that specializes in Smart Homes enabling them to be accessible, user-friendly and affordable enough to become mainstream as well as enhancing energy efficiency in Homes.	
NABTAX	Transforms unused urban spaces — rooftops and hangars — into fully connected smart farms, powered by AI + IoT to support sustainability and efficiency. Sensors monitor every growth factor — light, humidity, water, and nutrients — and the AI platform automatically adjusts conditions for maximum yield and minimum waste.	
P-Vita	For Green Intelligence Technology, Patented AI and IoT-driven bioconversion technology turning algae and agricultural waste into high-value natural raw materials, reducing wastes and enhancing sustainability	
Schoolz	An AI-powered platform that revolutionizes school and corporate transportation - making it safer, smarter, and sustainable, thus optimizing routes in real time, providing live safety tracking, and cutting carbon emissions by 600K+ tonnes, all while reducing transport costs by 30%	
Agrona	A startup company manufacturing particleboard wood out of agri-residues without cutting a single tree; fighting climate change and unleashing the economic potentials of the rural societies.	
Viridi	Tackles the problem of inadequate and inflexible EV charging infrastructure by introducing portable EV chargers with high power capacity, adjustable amperage, and wide compatibility, ensuring versatile and efficient charging for various EV models. This supports the EV market, thus contributing in green energy efforts emissions reduction	
Techno Masters	An innovative startup working to transform the smart home experience by making advanced home automation more affordable, accessible, and tailored to the needs of the mass market, reducing consumption and enhancing sustainability	
Tatbeek	Hardware and platform to measure and enhance manufacturers' productivity using latest technologies including IoT, Cloud computing, data analysis, machine learning, and image processing to maximize efficiency and minimize waste.	

Support to Innovation by AASTMT Scientific Research & Innovation Centre

In light of AASTMT concentration on Environmental Impacts, Sustainability and green energy, a number of programs are implemented by this center to support energy-related research and innovation.

- **Energy Conservation Program**
- **Energy-related Policies & Reports**
- **Environmental Monitoring and Climate Change Laboratory - Scientific Research & Innovation centre**

EVENTS

AASTMT is keen on promoting Green Energy Sustainability within and beyond university walls through organizing related symposiums and visits as well as launching related campaigns, initiatives, and competitions.

Visits, Symposiums and Talks

Activity	Overview	
20/12/2025 BIM (Building Information Modeling) Seminar	AASTMT organized a specialized BIM seminar at the College of Engineering and Technology, Abu Qir, in collaboration with CAD Masters and relevant engineering departments. The seminar demonstrated how digital modeling and MEP Revit enhance building energy efficiency, integrate renewable energy systems, reduce energy losses, and promote sustainable building design.	
9/11/2025 PVs and E-Mobility in Egypt Dialogue	AASTMT hosted Egyptian and German experts to discuss PV technologies, battery energy storage, energy communities and electric mobility.	
18/2/2025 Visit to EGYPES Exhibition – Egypt Energy show	Chemical and Petrochemical Eng. and Marine Eng. Departments organized a visit for its students to the Egypt Energy show (EGYPES) Exhibition at the Egypt International Exhibition Center in Cairo.	
10/12/2024 Nuclear energy Symposium	AASTMT's El Alamein campus hosted a symposium in collaboration with the Dabaa Nuclear Energy Agency and the Russian Cultural Center, focusing on nuclear energy cooperation and sustainability.	

Campaigns, Initiatives and School Visits

Event	Overview
Our Energy, Our Responsibility Campaign	The Energy Research Unit, AASTMT, prepared for the awareness campaign "Our Energy, Our Responsibility", in 2025 and launched it on 22 April 2026 in alignment with Egypt Vision 2030 and the Academy's commitment to sustainability. The campaign promotes responsible energy consumption, reducing waste, and improving energy efficiency through simple daily practices. It aims to strengthen individual and institutional responsibility, encourage a culture of sustainability, support efficient use of resources for a greener future.
12-13/ 8/2025 Summer Camp	A two-day summer camp for high school students organized by the Electrical and Control Engineering dept. – AAST Abukir staff and students. The camp is designed to engage school students in practical, interactive STEM-activities, particularly in electrical engineering, renewable energy and industrial control.
25/5/2025 BSA School Visit	BSA School Visit to Electrical and control engineering dept. – AAST abukir campus for Sparking Curiosity in Young Minds Through Electrical Engineering & Renewable Energy.

CONCLUSION

AASTMT's Energy Plan 2025 represents an integrated institutional framework for advancing sustainable energy management and supporting the university's contribution to SDG 7. Through its seven strategic pillars, the Academy combines smart monitoring, energy conservation, renewable energy utilization, carbon reduction, innovative laboratory facilities, research and funded projects, and strategic partnerships into a unified approach. The measurable reductions in electricity consumption, improvement in energy intensity, and growth in on-site solar generation demonstrate progress towards more sustainable campus operations as given by key performance indicators in Table 3. At the same time, international research projects and institutional cooperation provide opportunities to transform scientific innovation into practical clean-energy solutions. Ultimately, the plan reinforces AASTMT's pledge to Power Green Sustainability, Cleaning the Future, while supporting its long-term 2040 Goal: **Achieving a 50% reduction in carbon emissions and a 40% renewable energy share by 2040.**

GOAL 8 - DECENT WORK AND ECONOMIC GROWTH

OUR AIM IN 2024-2025

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) demonstrates a strong and enduring commitment to advancing Sustainable Development Goal 8 (SDG 8): Decent Work and Economic Growth. This commitment is reflected in the Academy's ongoing initiatives to strengthen employability, expand practical training opportunities, and foster strategic partnerships with industry stakeholders. Through these efforts, AASTMT contributes to sustainable economic development by enhancing professional competencies and creating meaningful, high-quality employment opportunities that equip both students and staff with the skills needed to succeed in an evolving labor market.

THE IMPACT RANKING SCORES 2023-2024



KEY MILESTONES IN 2024-2025

AASTMT Promotes Decent Employment Practices

Aligned with SDG 8 (Decent Work and Economic Growth), AASTMT is dedicated to maintaining fair, transparent, and competitive remuneration across all employment categories. The Academy ensures that faculty and staff receive salaries exceeding the local living wage, recognizing human resources as its most valuable asset. To reinforce this commitment, AASTMT has implemented a Pay Scale Equity Employment Policy that promotes equal opportunities and equitable treatment in compliance with Article 35 of the Egyptian Labor Law. This policy safeguards fair compensation, consistent employee benefits, and non-discriminatory employment practices throughout the institution. Further information regarding this policy is available through the following link.

AASTMT strives to maintain a fair, inclusive, and respectful institutional environment that actively advances SDG 8 (Decent Work and Economic Growth). Through cultivating a campus culture that embraces diversity and respects individual dignity, the Academy strengthens SDG 8's fundamental principles of equitable remuneration, equal employment opportunities, and freedom from discrimination throughout its academic and professional environments. Additional details regarding AASTMT's Anti-Discrimination Policy can be accessed through the following link.

AASTMT remains dedicated to preventing modern slavery, human trafficking, and every form of forced or exploitative labor while maintaining an ethical, equitable, and transparent workplace. This responsibility encompasses the Academy's internal activities and external partnerships, ensuring that its institutional practices uphold internationally recognized principles of human rights and labor protection. Further information concerning AASTMT's policies addressing forced labor, modern slavery, human trafficking, and child labor is accessible through the following link.

The Arab Academy for Science, Technology, and Maritime Transport (AASTMT) integrates SDG 8 (Decent Work and Economic Growth) into its Outsourcing Employment Practices and Equivalent Rights Policy, promoting fair, ethical, and equitable treatment for all outsourced personnel. This policy demonstrates the Academy's dedication to safeguarding the rights and well-being of outsourced employees through responsible employment standards, institutional transparency, and accountability. By emphasizing fairness and ethical working conditions, AASTMT promotes equivalent employment rights and protections for outsourced workers and directly employed staff. Additional information concerning AASTMT's Employment Practice Equivalent Rights Outsourcing Policy is available through the following link.

Offering Internships and Work Placements to its Students

The Arab Academy for Science, Technology, and Maritime Transport (AASTMT) demonstrates its commitment to SDG 8 (Decent Work and Economic Growth) by promoting practical education and enhancing students' preparedness for employment. Through organized internship programs and professional training opportunities, AASTMT connects theoretical learning with practical workplace experience, equipping students with essential competencies and professional skills to compete effectively in both domestic and international labor markets.

To strengthen these efforts, AASTMT has revised its academic regulations to establish practical training and work placements as compulsory requirements for graduation. Accordingly, all students are required to undertake a minimum of one month of practical training relevant to their academic specialization. This requirement enables graduates to acquire valuable professional experience before entering the workforce, improving their employment prospects, fostering sustainable economic growth, and advancing the broader objectives of SDG 8.



Organizing Job Fairs for Students and Graduates at AASTMT

The Arab Academy for Science, Technology, and Maritime Transport (AASTMT) actively advances SDG 8 (Decent Work and Economic Growth) by regularly organizing job fairs for its students and graduates. These events play a vital role in bridging the gap between education and employment, offering direct access to career opportunities and enabling employers to connect with qualified, job-ready candidates. Through these job fairs, AASTMT enhances employability, promotes fair and productive work, and contributes to building a dynamic and competitive labor market. This ongoing commitment reflects AASTMT's dedication to developing a skilled workforce, fostering sustainable economic growth, and supporting broader regional development goals.



COMMUNITY ENGAGEMENT

AASTMT and UNESCO Promote Gender Equality and Women's Professional Empowerment through the Arab Women in Science Platform

On 1 June 2025, The Arab Academy for Science, Technology and Maritime Transport (AASTMT), in collaboration with the UNESCO Regional Office in Cairo, launched the Arab Women in Science Platform (AWSci) at its Smart Village Campus on 1 June 2025, reaffirming its commitment to promoting gender equality, inclusive professional development, and equal employment opportunities for women in scientific and professional fields. Developed following two years of consultations involving 169 women scientists from across the Arab region, the platform aims to address persistent barriers to women's career advancement by providing mentorship programmes, fellowship opportunities, professional networking, capacity-building activities, and career development resources. This initiative reflects AASTMT's continued efforts to support Sustainable Development Goal 8 (Decent Work and Economic Growth), particularly Indicator 8.2.3, by promoting the principles of non-discrimination, equal employment opportunities, and equitable professional advancement. Through its strategic partnership with UNESCO, AASTMT contributes to addressing gender-based inequalities, strengthening women's professional capabilities, and encouraging their active participation in scientific research, leadership, and employment. The initiative further complements the Academy's institutional commitment to fostering a fair, inclusive, and supportive working environment that recognises individual capabilities and encourages professional growth regardless of gender. By facilitating access to career development opportunities, strengthening professional networks, and promoting women's participation in scientific and economic activities,

AASTMT demonstrates its practical commitment to advancing equitable employment practices and reducing barriers to professional advancement. This collaboration highlights the Academy's ongoing efforts to integrate the principles of fairness, diversity, and equal opportunity into its institutional activities, contributing to the development of a more inclusive, productive, and sustainable workforce.



AASTMT Promotes Women's Empowerment and Equal Opportunities through the Graduation of Ahfad University for Women Medical Students

On 17 June 2025, The Arab Academy for Science, Technology and Maritime Transport (AASTMT) reaffirmed its commitment to promoting gender equality, women's empowerment, and inclusive professional opportunities by hosting the graduation ceremony of medical studies students from Ahfad University for Women (AUW), Sudan, at its New Alamein Campus on 16 June 2025. The ceremony marked a significant milestone in the strategic academic collaboration between AASTMT and AUW, highlighting the Academy's dedication to supporting women's educational and professional advancement, particularly during periods of conflict and displacement. Attended by distinguished representatives from Egypt and Sudan, including senior government officials, university presidents, academic leaders, and faculty members, the event celebrated the achievements of female students who successfully continued their academic journeys despite the challenges arising from the conflict in Sudan. Through its partnership with AUW, AASTMT provided an inclusive and supportive academic environment that enabled these students to continue their medical education, strengthen their professional competencies, and prepare for future employment opportunities in the healthcare sector. This initiative reflects AASTMT's broader commitment to Sustainable Development Goal 8 (Decent Work and Economic Growth), particularly Indicator 8.2.3, by supporting the principles of gender equality, non-discrimination, and equitable access to professional development opportunities. By facilitating educational continuity and supporting the integration of Sudanese female students into the academic community, AASTMT contributes to reducing barriers that may otherwise restrict women's professional participation and career progression. Furthermore, the collaboration demonstrates the Academy's dedication to fostering an inclusive institutional culture that values diversity, equal opportunity, and the empowerment of women regardless of nationality or background. The successful graduation of these students highlights AASTMT's practical efforts to strengthen women's professional capabilities, promote their participation in the healthcare workforce, and contribute to a more equitable and inclusive labour market. Through such initiatives, AASTMT continues to demonstrate its commitment to creating pathways for women's professional advancement and supporting the fundamental principles of decent work, fairness, and equal opportunity.



AASTMT Promotes Inclusive Dialogue, Diversity, and Non-Discrimination through the Arab Media Dialogue Forum

On 21 July 2025, The Arab Academy for Science, Technology and Maritime Transport (AASTMT) reaffirmed its commitment to promoting inclusivity, diversity, equal opportunities, and non-discrimination by hosting the Arab Media Dialogue Forum at its Smart Village Campus on 20 July 2025, under the theme "What Do We Want from the Arab Media?". Organized under the patronage of H.E. Prof. Dr. Ismail Abdel Ghaffar Ismail Farag, President of AASTMT, the forum brought together academics, media professionals, experts, and representatives from several Arab countries to discuss the evolving role of media in contemporary society and its responsibility to promote balanced, responsible, and inclusive communication. The discussions emphasized the importance of neutrality, trust, pluralism, professional integrity, and the rejection of one-sided narratives, while highlighting the need to strengthen dialogue among diverse communities and encourage the representation of different perspectives. The forum also explored the challenges associated with digital media, changing communication practices, and the importance of strengthening professional standards within the media sector. This initiative complements AASTMT's broader commitment to Sustainable Development Goal 8 (Decent Work and Economic Growth), particularly Indicator 8.2.3, by promoting principles consistent with non-discrimination, respect for diversity, fairness, and equal treatment in professional environments. Through its engagement with media professionals and academic experts, AASTMT encourages constructive dialogue, professional responsibility, and the recognition of diverse viewpoints, contributing to a culture of mutual respect and inclusion. Furthermore, the forum reflects the Academy's efforts to foster an institutional environment that values openness, professional ethics, and equitable participation, while recognizing the importance of responsible communication in challenging discriminatory attitudes and strengthening social cohesion. By facilitating discussions on pluralism, neutrality, and professional accountability, AASTMT demonstrates its wider engagement with the values underpinning inclusive employment practices and respectful professional relationships. The Arab Media Dialogue Forum therefore represents a complementary institutional initiative supporting the Academy's commitment to fairness, diversity, and non-discrimination, reinforcing its role in promoting an inclusive and socially responsible academic and professional community.



EVENTS

AASTMT Promotes Recognition of Employee Contributions and Professional Excellence through Engineering Day 2024

On 5 January 2025, The Arab Academy for Science, Technology and Maritime Transport (AASTMT) reaffirmed its commitment to recognizing professional excellence, appreciating employee contributions, and fostering a supportive institutional working environment through the celebration of Engineering Day 2024, organized by the College of Engineering and Technology at its Alamein Campus on 31 December 2024. The event was attended by H.E. Prof. Dr. Ismail Abdel Ghaffar Ismail Farag, President of AASTMT, alongside senior Academy officials, faculty members, staff, and distinguished engineering professionals, including Eng. Jalal Salama, an engineer at Amazon and formerly at Tesla. The celebration provided an opportunity to showcase innovative student projects, recognize outstanding academic achievements, and honor distinguished faculty members, staff, officials, and employees for their contributions to the Academy's educational and institutional success. This initiative complements AASTMT's broader commitment to Sustainable Development Goal 8 (Decent Work and Economic Growth), particularly Indicator 8.2.5, which addresses institutional policies guaranteeing equivalent rights for workers when outsourcing activities to third parties. By publicly recognizing the contributions of different categories of employees and encouraging a culture of professional appreciation, AASTMT reinforces the importance of fairness, dignity, and respect within its institutional environment. The event also highlights the value of acknowledging employees' contributions to organizational performance, encouraging professional motivation, and promoting an inclusive workplace culture. Such practices reflect the broader principles of equitable treatment and responsible employment that are relevant to the protection of workers' rights. Through its continued recognition of academic and administrative excellence, AASTMT demonstrates its commitment to fostering a professional environment built on mutual respect, employee appreciation, and responsible institutional values, contributing to a culture that supports fair employment practices and sustainable organizational development.



AASTMT Strengthens Institutional Cooperation and Professional Development through Strategic Partnership with the Egyptian Ministry of Housing

On 10 November 2024, The Arab Academy for Science, Technology and Maritime Transport (AASTMT) reaffirmed its commitment to advancing professional development, institutional cooperation, and responsible employment practices through the signing of two cooperation protocols with the Egyptian Ministry of Housing, Utilities and Urban Communities during the twelfth session of the World Urban Forum (WUF12), held in Cairo from 4 to 8 November 2024. The agreements were signed by H.E. Prof. Dr. Ismail Abdel Ghaffar Ismail Farag, President of AASTMT, and H.E. Eng. Sherif El Sherbiny, Egyptian Minister of Housing, Utilities and Urban Communities, with the objective of strengthening cooperation in consultancy, professional training, academic studies, and collaborative research. The first protocol focuses on providing technical consultations for the development of a comprehensive maritime resource management plan in New Alamein City, emphasizing safety, environmental protection, and economic efficiency. The second protocol addresses practical training opportunities for AASTMT students, postgraduate administrative studies for Ministry employees, and joint research activities in areas of mutual interest. This collaboration supports Sustainable Development Goal 8 (Decent Work and Economic Growth), with particular relevance to the broader principles of Indicator 8.2.5, which addresses institutional policies guaranteeing equivalent rights for workers when activities are outsourced to third parties. By establishing structured cooperation agreements with external institutions, AASTMT demonstrates the importance of clearly defined institutional responsibilities, professional accountability, and transparent partnerships in delivering educational, training, and consultancy services. Furthermore, the emphasis on professional training and capacity building contributes to strengthening workforce competencies, supporting career advancement, and encouraging responsible institutional practices. The agreements also provide a foundation for promoting ethical cooperation, mutual accountability, and respect for professional standards across participating organizations. Through these strategic partnerships, AASTMT continues to strengthen its institutional engagement with external stakeholders

while promoting professional development, responsible governance, and the principles of fairness and equitable treatment that underpin sustainable employment practices.



AASTMT Reinforces Its Commitment to Employee Welfare and Responsible Institutional Practices through Presidential Visit to Abukir Planting Nurseries

On 12 May 2024, The Arab Academy for Science, Technology and Maritime Transport (AASTMT) reaffirmed its commitment to responsible institutional management, employee engagement, and sustainable workplace development through an official visit by H.E. Prof. Dr. Ismail Abdel Ghaffar Ismail Farag, President of AASTMT, to the Academy's Planting Nurseries at its Abukir Campus in Alexandria on 12 May 2024. Accompanied by senior Academy officials, the President conducted an inspection tour to assess operational progress, review recent developments in planting and landscaping activities, and examine modern approaches to plant maintenance and irrigation. During the visit, the President met with employees responsible for managing and maintaining the nurseries, highlighting the importance of direct communication between institutional leadership and operational staff in ensuring effective workplace management and continuous improvement. This initiative complements AASTMT's broader commitment to Sustainable Development Goal 8 (Decent Work and Economic Growth), particularly Indicator 8.2.5, which concerns institutional policies guaranteeing equivalent rights for workers when activities are outsourced to third parties. By engaging directly with nursery personnel and reviewing their operational responsibilities, the Academy demonstrates the importance of recognizing the contributions of operational workers and maintaining effective oversight of institutional activities. Such leadership engagement provides an opportunity to strengthen communication, promote professional accountability, and encourage fair and respectful treatment across different categories of employees. Furthermore, the visit reflects AASTMT's dedication to maintaining a supportive working environment in which operational efficiency, employee contributions, and responsible management practices are recognized as essential elements of institutional performance. Through its continued attention to operational activities and workforce engagement, AASTMT reinforces the broader principles of dignity, fairness, and responsible employment practices that are relevant to protecting workers' rights and promoting sustainable institutional development.



AASTMT Celebrates Academic Excellence and Innovation through Three Awards at DUPHAT 2025

On 12 January 2025, The Arab Academy for Science, Technology and Maritime Transport (AASTMT) reaffirmed its commitment to academic excellence, professional development, and innovation through the outstanding achievements of its College of Pharmacy students at the Dubai International Pharmaceutical and Technology Conference and Exhibition (DUPHAT 2025), held from 7 to 9 January 2025 at the Dubai World Trade Centre. A delegation of 45 students from AASTMT's AbuQir Campus participated in the international event under the guidance of academic staff, presenting 15 research papers and securing three prestigious awards. These achievements included second prize in the Best Student Poster category, third place in the Best Organized Poster category, and fourth place in the Innovation category, demonstrating the students' research capabilities and the Academy's commitment to high-quality education and professional preparation. The participation of students and their academic supervisors' highlights AASTMT's dedication to fostering a supportive academic environment that encourages knowledge exchange, professional recognition, and collaborative achievement. This initiative contributes to Sustainable Development Goal 8 (Decent Work and Economic Growth) by strengthening the professional competencies of future pharmaceutical professionals and supporting their readiness for employment in a knowledge-driven economy. In relation to Indicator 8.2.5, which addresses institutional policies guaranteeing equivalent rights for outsourced workers, the event reflects the broader institutional values of fairness, professional recognition, and responsible management. Although the awards primarily demonstrate educational achievement rather than employment policy implementation, the Academy's support for collaborative research and professional development reinforces its commitment to cultivating an inclusive and productive institutional environment. Through continued investment in academic excellence, research opportunities, and international engagement, AASTMT contributes to developing highly qualified graduates and promoting professional standards that support sustainable economic growth and responsible institutional practices.



UPCOMING GOALS

AASTMT will continue to strengthen its frameworks for inclusive governance, student and staff engagement, ethical employment and training opportunities that align with SDG 8. The Student Union will remain a key partner in advocating for student welfare, participation and professional growth as the Academy advances its strategic plan for 2021-2026.

GOAL 9 - INDUSTRY, INNOVATION AND INFRASTRUCTURE

OUR AIM IN 2024-2025

During the academic year 2024–2025, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) continued to strengthen its contribution to Sustainable Development Goal 9 (SDG 9): Industry, Innovation and Infrastructure, which focuses on building resilient infrastructure, promoting inclusive and sustainable industrialization, and fostering innovation. AASTMT advances this commitment by integrating research, technological development, entrepreneurship, industry collaboration, and capacity building across its academic and institutional activities. Through applied research, innovation-driven programs, startup and spin-off support, industry partnerships, and the development of future-ready skills and infrastructure, the Academy works to bridge the gap between academia and market needs while contributing to sustainable economic development in Egypt and the wider Arab region. Entrepreneurship is a key pillar of AASTMT's contribution to SDG 9. Through its entrepreneurship ecosystem, the Academy supports students, researchers, and startups in transforming innovative ideas into viable businesses and market-ready solutions. Through incubation, acceleration, mentorship, investment opportunities, and industry partnerships, AASTMT strengthens innovation-driven enterprises and connects academic knowledge with real market needs. These efforts contribute to innovation, sustainable economic growth, job creation, and technological advancement, reinforcing AASTMT's role as a leading regional platform for entrepreneurship and innovation.

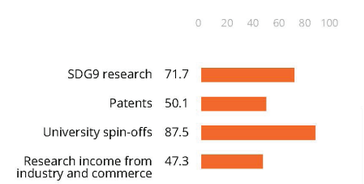
THE IMPACT RANKING SCORES 2023-2024

THE IMPACT RANKINGS

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

SCORE 64.5

RANK 201–300 out of 826 institutions

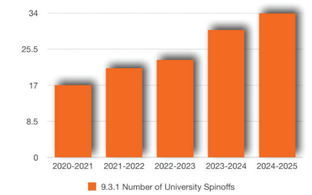


KEY MILESTONES IN 2024-2025

AASTMT - Entrepreneurship Center Spin-Offs

Spin-offs, Progress Over the last 5 Years

METRIC/INDICATOR	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025
9.3.1 Number of University Spin-Offs	17	21	23	30	34



- **Photon,** Smart is a fabless IoT manufacturer that specializes in Smart Homes. We exist to drive the smart homes industry into the next phase: becoming accessible, user-friendly and affordable enough to become mainstream.
- **Brainfix,** 65% of children leave rehabilitation because traditional therapy doesn't engage the brain. Brain Fix changes that. We've built the world's first system that reconnects the brain to muscles using muscle preparation, VR, AI, and robotics—closing the neural loop other solutions ignore.
- **MyVarm,** (My Virtual Farm) is an Agritech company, offering convenient farming in urban areas in order to achieve proper utilization of extra spaces by providing means to grow healthy food using sustainable methods in small scale while providing a new source of income to our ecosystem (Growers, Suppliers, Agri experts and Urban location owners).
- **Vitrine Furniture,** is a tech-driven online and offline managed furniture marketplace in Egypt that helps customers find affordable, modern furniture and enables local suppliers to reach more buyers.
- **OZY,** adventures is a tourism company specialized in adventure travelling inside & outside Egypt, retreats, and extreme sports trainings.
- **NABTAX,** transforms unused urban spaces — rooftops and hangars — into fully connected smart farms.
- **EMDS,** develops a robotic surgery training platform designed for medical schools, teaching hospitals, and surgical training centers. The platform combines realistic simulation with haptic devices to teach core robotic surgery skills such as camera control, instrument manipulation, peg transfer, and suturing.
- **CY Guard,** CyberGuardX Academy is a leading cybersecurity training provider dedicated to empowering students and professionals with practical skills and internationally recognized certifications.
- **P-Vita,** Patented AI and IoT-driven bioconversion technology turning algae and agricultural waste into high-value natural raw materials, for Green Intelligence Technology.
- **Amwal,** is a crowd-lending platform that allows individual investors to invest in short-term loans of small & medium companies.
- **The Align,** we have created a new device that revolutionizes dentistry by providing instant feedback to the student if he makes a mistake in his job at the pre-clinical stage or in the clinic, because there is no device in the dental field that performs the same function and students rely on feedback from the teacher or via the internet and videos.
- **SUPER NOVA,** is an all-in-one digital marketplace designed specifically to address the needs of communities, consumers, small businesses, and service providers across Upper Egypt.
- **NEOCER,** A genetic analysis device for indicators that lead to early detection of cancer. Neocer introduces a smart, portable system for regular early cancer screening based on microRNA analysis.
- **SNOHE ROBOTICS,** to address the critical challenges in rehabilitation, SNOHE ROBOTICS has developed the Tronix AX3, an advanced, fully integrated robotic rehabilitation device.
- **BOYOT,** provides Real Estate businesses with solutions for all their property management needs.
- **Taiseer,** is an innovative fintech startup revolutionizing micro-savings through gold investment. Based in Egypt, Taiseer offers a Sharia-compliant mobile application that enables users to save and invest in gold through small, flexible contributions.
- **SugarHeal,** is at the forefront of sustainable healthcare innovation, offering advanced wound care solutions through biodegradable patches and 3D printing inks.
- **Mansaj,** is an Egyptian sustainable social enterprise and textile startup based in Cairo. Founded with a mission to bridge ancient traditional craftsmanship with modern design.
- **Schoolz,** is an AI-powered platform that revolutionizes school and corporate transportation - making it safer, smarter, and sustainable.
- **Venu,** MENA's #1 platform to bring people together to meet, celebrate or create. We made it easier than ever to find, compare and book any event space on-the go.
- **Agrona,** is a startup company manufacturing particleboard wood out of agri-residues without cutting a single tree; Fighting climate change and unleashing the economic potentials of the rural societies.
- **Adaptgarments,** is the first brand in Egypt and the Middle East to

manufacture special clothes for patients after all kinds of surgeries and fractures.

- **Viridi,** tackles the problem of inadequate and inflexible EV charging infrastructure, which is often unreliable, inaccessible, and costly. Their solution is portable EV chargers with high power capacity, adjustable amperage, and wide compatibility, ensuring versatile and efficient charging for various EV models.
- **Techno Masters,** is an innovative startup working to transform the smart home experience by making advanced home automation more affordable, accessible, and tailored to the needs of the mass market.
- **Buildwealth,** A Fractional Properties Digital Platform, web site and mobile application revolutionary platform unlocking real estate investment for all investment interested personal.
- **AIProtein,** in a startup founded at the intersection of biology and AI to turn the world's deserts into climate-smart protein factories.
- **NovaSec Labs,** is an emerging cybersecurity startup developing innovative solutions that leverage Artificial Intelligence to make penetration testing more intelligent, automated, and effective.
- **Tatbeek**, Hardware and platform to measure and enhance manufacturers' productivity using latest technologies including IoT, Cloud computing, data analysis, machine learning, and image processing to maximize efficiency and minimize waste.
- **Medex Smart Solutions,** First logistic network connecting the pharmaceutical market, accelerating the capital cycle & reducing the expired medicines cash losses, beside protecting people's health from the harms of the repackaged expired medicines starting from Egypt to the Arabian & African countries.
- **Goia,** is a tourism-tech startup from Egypt building a mobile app that acts as a "virtual guide in your pocket." Using AI, AR, and 3D visualization, Goia helps tourists and museum visitors explore cultural heritage sites in an immersive, cinematic way.
- **Interact Labs,** Interact Labs develops hardware and software products that enhance collaboration, increase engagement and interactivity through an enhanced user experience.
- **El-Mawkaa,** is an intelligent marketplace for building materials. We help contractors, Engineers even property owners to get competitive, accurate quotations for their materials, from our vetted suppliers, in a few minutes in a documented & automated process through our innovation the matching algorithms.
- **Joseela,** is an online mall, allowing buyers to buy from their around shops online or take their orders in drive-thru, also for the first time all buyers can get cashback up to 100% for all their purchases process with very easy steps.
- **Deben,** is an Egyptian Startup offering a SaaS solution that enables corporate treasuries to access all of company's bank accounts from one view with reporting.

Programs and Incubators 2024-2025

P1. Ripple Enabler Program, 2023-Current
Unlike other initiatives, Ripple focuses on empowering enablers rather than entrepreneurs. The program offers capacity building, training, and consultations from local and international experts.

P2. Ripple Meetups, 2024-Current
The program brings together entrepreneurs, startups, students, innovators, mentors, investors, industry professionals, and ecosystem leaders in an informal and engaging setting where ideas can be shared, experiences can be exchanged, and new connections can emerge.

P3. Business Matchmaking Program 2025-Current
Connects high-growth startups with investors, corporate partners, and global expansion enablers across Egypt, the Gulf, Europe, and Asia. The program combines investment-readiness preparation with curated one-on-one matchmaking meetings, helping startups secure investment, build strategic partnerships, and expand into international markets.

P4. Supply Chain Accelerator Program, 2022 - Current
Is a first-of-its-kind initiative in the MENA region, offering a 3–6 month intensive program to help high-growth supply chain companies scale and accelerate growth.

P5. Egypt Entrepreneurship Rally Society, 2022 - Current
Is an initiative that encourages young Egyptians to explore entrepreneurship. By setting up student-run societies that is Entrepreneurial-led in universities.

P6. AAST YIEP/ Plan Incubator Program, 2024 - Current
The Youth Innovation and Entrepreneurship Program (YIEP), a program empowers Egyptian youth by developing their entrepreneurial, employability, and financial literacy skills, supporting them in creating startups and actively participating in economic opportunities.

P7.AI Diploma for AAST Faculty and Staff in Partnership with Meska AI,2025
The diploma brought together 60 faculty and staff members from across AASTMT for a comprehensive learning journey designed to strengthen their capabilities in applying artificial intelligence across education, research, innovation, and entrepreneurship.

Competitions

C1. Egypt Rally Startup Competition, 2020 - Current
Is a full program that focuses on youth from 18 to 40 years who are eager to create and develop startups and become entrepreneurs.

C2. AAST Rally Competition, 2021 - Current
An annual competition that aims to promote entrepreneurship among students across all branches of the Academy.

C3. Rally Accelerate Startup Competition, 2021 - Current
An End-to-End Fundraising program that targets startups that are in the growth phase them for investments.

C4. MATE Egypt Regional ROV Competition
Students design, build, and operate Remotely Operated Vehicles (ROVs) to complete underwater missions based on real-world engineering scenarios. Outstanding teams qualify to represent Egypt at the MATE International ROV Competition.

C5. The International Olympiad Informatics (IOI) Competition, 2024
AASTMT, honored to organize the International Olympiad in Informatics in its thirty-sixth edition, during the period from 1 to 8 September 2024 in Alexandria.

C6. The Africa and Arab Collegiate Programming Championship (ACPC), March 2024
Is a qualifying round for the International Collegiate Programming Contest (ICPC). Winners of an ACPC contest qualify to the ICPC World Finals.

C7. The Egyptian competition for Programming for University Youth, ECPC 2024

The competition is held at AASTMT AbuKir Headquarters with the participation of 3,000 teams represented by 12,000 students from 123 universities and institutes.

C8. RoboCup Junior Egypt competition, 2025
RoboCup Junior is a project-oriented educational initiative that supports local, regional, and international robotic events for young students.

C9. 12th Lee Kuan Yew Global Business Plan Competition 2025
One of the world's premier university startup competitions dedicated to fostering innovation and entrepreneurship among young innovators.

AASTMT Grants

AASTMT Grants	Description
The National Bank of Egypt & Entrepreneurship Center	The Grant includes sponsorship of National Bank of Egypt as the main partner for Rally Accelerate Program, Egypt Rally Competition and Ripple summit. **With total amount 8 Million Egypt Pound in year 2024.**
PLAN International Foundation - The Ready for Tomorrow project & Entrepreneurship Center	The program's core mission is to enable young men and women to be inspired and included in economic life by enhancing their employability and entrepreneurial skills. AAST EC serves as the implementation partner, focusing on helping Egyptian youth develop their own startups and improve their financial literacy. **With total amount 4 Million Egypt Pound in year 2024 and 6.5 Million Egypt Pound in year 2025.**
USAID Business Egypt & Entrepreneurship Center	Program builds on a long and successful partnership between USAID and the Arab Academy for science, technology and maritime transport that helped establish and furnish three business incubators to help train entrepreneurs. **With total 8 Million Egypt Pound in year 2024.**
Obeikan Company & Entrepreneurship Center	Obeikan digital solutions company, Present fun to support the supply chain programs in entrepreneurship center at the academy. **With total amount 2.5 Million Egypt Pound in year 2024.**

Partnerships & Agreements

- **"AASTMT - MAFI for Agricultural Produce Industries" Agreement - Sep, 2024**
- **AASTMT - New Egypt Group Memorandum of Understanding - Dec, 2024**
- **AASTMT - "ICT Misr" Agreement- Dec, 2024**

COMMUNITY ENGAGEMENT

Initiatives, Ideation & Training

I1. Panel: Showcasing Impactful stories of Entrepreneurship Center, Ripple program Bootcamp Cohort2 - Aug, 2024

I2."The Ready for Tomorrow", Rally Egypt 2024 Competition Training BootCamp- Aug, 2024

I3. The Competitive Programming Club 2024 - Oct, 2024

I4. AASTMT Center of Entrepreneurship Participation in the "World Cities Day 2024" Exhibition - Nov, 2024

Partnerships, Public Engagement

Universities Engagement

EVENTS

Conferences & Events

C1. Ripple Summit24 - First Global Summit for Entrepreneurship Enablers in the MENA Region- Aug, 2024

C2. The 9th International Conference on Advanced Technology and Applied Sciences (ICaTAS 2024)- Oct, 2024

C3.Sustainability Planning for university-based Entrepreneurship Centers, Ripple Program Cohort 2 Bootcamp- Nov, 2024

C4. The Ready for Tomorrow project, powered by AAST Entrepreneurship Centre and PLAN International Foundation- Dec, 2024

C5. AASTMT College of Language and Communication, "Industrial Advisory Council" - Feb, 2025

C6. Arab Dialogue Circle on Artificial Intelligence in the Arab World - Feb, 2025

C7.1st Future International Conference on AI and Cybersecurity (FICAC25) -Mar, 2025

LOOKING AHEAD: ADVANCING AASTMT'S IMPACT ON SDG 9

Building on its achievements during 2024–2025, AASTMT will continue strengthening its role as a regional hub for innovation, entrepreneurship, applied research, technology and sustainable industrial development. The Academy's next phase will focus on transforming knowledge and innovation into practical solutions that create stronger connections between academia, industry and society.

Strategic Direction	Moving Forward
Innovation & Applied Research	Strengthen research and innovation that respond to real industrial, technological and societal challenges.
Entrepreneurship & Startup Growth	Expand incubation, acceleration, investment readiness and market-access opportunities for innovative startups and university entrepreneurs.
Industry & Technology Partnerships	Deepen collaboration with industry, technology partners and innovation ecosystems to accelerate knowledge and technology transfer.
Future Technologies & Skills	Expand capabilities in AI, digital transformation, smart manufacturing and emerging technologies through education, training and practical applications.
Sustainable & Inclusive Innovation	Support solutions and infrastructure that contribute to sustainable industrialization while expanding innovation opportunities across communities and regions.

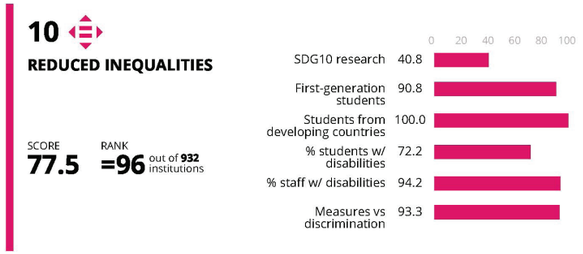
AASTMT remains committed to turning knowledge into innovation, innovation into opportunity, and opportunity into sustainable impact — contributing to a more resilient, inclusive and technology-driven future.

GOAL 10 – REDUCED INEQUALITIES

OUR AIM IN 2024-2025

During the academic year 2024–2025, AASTMT reinforced its commitment to SDG 10 – Reduced Inequalities by promoting social justice, inclusive education, equal opportunities, and non-discrimination, while empowering underrepresented and disadvantaged groups through institutional policies, targeted support, and community engagement initiatives.

THE IMPACT RANKING SCORES 2023-2024



KEY MILESTONES IN 2024-2025

During the academic year 2024–2025, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) continued to strengthen its commitment to SDG 10 – Reduced Inequalities through institutional policies, inclusive educational practices, targeted student support, and community engagement initiatives aimed at promoting social justice, equal opportunity, diversity, non-discrimination, and social inclusion.

COMMUNITY ENGAGEMENT

During the academic year 2024–2025, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) continued to strengthen its community engagement efforts through initiatives, awareness campaigns, educational activities, and partnerships aimed at reducing social inequalities, promoting equal opportunities, and supporting the inclusion of underrepresented and vulnerable groups.

These initiatives extended the Academy's social responsibility beyond its campuses by engaging refugees, individuals with disabilities, women, children with autism, disadvantaged communities and civil society organizations.

Vocational Training and Economic Empowerment of Refugees and Vulnerable Communities – Partnership with Caritas Egypt

AASTMT, through its Industry Service Complex, continued its cooperation with Caritas Egypt to expand technical and vocational training opportunities for refugees, migrants and individuals from vulnerable communities. Between February and April 2025, the Industry Service Complex implemented five specialized training courses benefiting 60 trainees, as part of the cooperation agreement with Caritas Egypt, supported through funding from the International Labor Organization (ILO). Additional activities documented in April 2025 included industrial electrical maintenance and automotive diagnostics training, delivered in cooperation with Caritas Egypt and supported by Caritas Austria. By providing practical technical skills and opportunities for professional development, this partnership contributed to economic empowerment, employability, social integration and reducing inequalities in access to vocational education.



Disability Rights and Inclusiveness Awareness Campaign

AASTMT participated in a Disability Rights and Inclusiveness Campaign on 9 November 2024, coordinated through the Department of Cultural and Social Activities at Abu Qir Campus in connection with a national initiative involving the Ministry of Higher Education and Hope Donors. The campaign engaged students in promoting disability rights, challenging social stigma and discriminatory attitudes, and encouraging more inclusive interaction with individuals with disabilities. Through student engagement and awareness activities, the initiative contributed to strengthening social acceptance, non-discrimination, disability inclusion and equal participation.



Third Autism Forum – Partnership with Lions District 352 Egypt, 12 April 2025

Through its Sustainable Development Department, AASTMT co-organized the Third Forum, "Towards a Better Tomorrow for Autism Children," on 12 April 2025 at Abu Qir Campus, in cooperation with the Committee of People with Disabilities of Lions District 352 Egypt. The forum brought together academic and civil society stakeholders to promote autism awareness, improve understanding of the challenges facing children with autism, and encourage more inclusive educational and community practices. This partnership strengthened cooperation between AASTMT and civil society in addressing disability-related inequalities and promoting social acceptance, inclusion and community participation.



Student Participation in the Orange Campaign

Students from AASTMT's College of Language and Communication at Smart Village Campus participated in the Orange Campaign 2024, raising awareness about violence against women. The campaign encouraged women to speak out against abuse, emphasized the importance of social support and highlighted the role of education and communication in challenging discriminatory attitudes. The initiative demonstrated how student participation and awareness campaigns can contribute to addressing gender-based inequality and promoting safer, more inclusive communities.



Inclusive Higher Education and International Knowledge-Sharing

AASTMT, represented by its Sustainable Development Department, participated in the international workshop "Inclusive Universities and Sustainable Development Goals (SDGs)," organized by Galala University in cooperation with Technische Universität Dresden (TU Dresden) and the German Academic Exchange Service (DAAD). During the panel discussion "Creating a Roadmap for Boosting Inclusiveness in Egyptian Universities towards Sustainable Development," AASTMT presented its institutional approach to inclusive education, disability accessibility and equitable participation. The workshop provided an opportunity to exchange experiences and strengthen cooperation among universities in developing more inclusive educational environments.



Empowering Female Students through Negotiation Skills and Leadership Development – "She Leads for Universities Initiative"

As part of its ongoing commitment to social justice, social inclusion, gender equality, equal opportunity, non-discrimination, and reducing social inequality, the Arab Academy for Science, Technology and Maritime Transport (AASTMT), through its Sustainable Development Department and in coordination with the Deanship of Student Affairs, organized two training workshops entitled "Negotiation Skills and Leadership Empowerment" for female students at Al-Alamein Campus on 20 April 2026 and Miami Campus on 27 April 2026. The workshops were conducted within the framework of the "She Leads for Universities" initiative, implemented by the Youth Leaders Foundation (YLF) in partnership with the Ministry of Higher Education and Scientific Research, the National Council for Women (NCW), and UN Women, with support from the European Union (EU). The initiative aimed to empower female students by strengthening their negotiation, communication, leadership, and

decision-making skills, enhancing their confidence and readiness to participate effectively in academic, professional, and leadership environments. By providing targeted capacity-building opportunities for women, AASTMT contributed to addressing gender-based barriers, unequal opportunities, and challenges to women's representation in leadership positions, while promoting social integration, inclusive education, women's empowerment, and upward social mobility.



EVENTS

During the academic year 2024–2025, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) organized and participated in a range of events, awareness campaigns, seminars, and community engagement initiatives aimed at advancing SDG 10 – Reduced Inequalities. These activities addressed disability inclusion, gender inequality, harassment prevention, social discrimination, and barriers to equal participation in education and professional life.

Supporting Refugee Access to Higher Education – Bridge of Hope Initiative

Through the Bridge of Hope Initiative, developed in partnership with the United Nations High Commissioner for Refugees (UNHCR), AASTMT supports access to higher education for eligible refugee students through scholarship opportunities. The initiative addresses financial and educational barriers that can prevent displaced individuals from pursuing university education. It contributes to educational inclusion, equal opportunities, social integration and upward social mobility, demonstrating the Academy's commitment to supporting refugees and asylum seekers. The initiative represents an important institutional partnership connecting higher education with the needs of vulnerable communities.



Supporting and Empowering People with Disabilities

AASTMT organized the symposium "The Academy's Role in Supporting and Caring for People with Disabilities" on 22 December 2024, highlighting its institutional efforts to empower individuals with disabilities. The event addressed accessible education, psychological and social support, skills development and opportunities for meaningful participation in academic and community life. It also celebrated the achievements of outstanding students and graduates with disabilities, providing inspiring examples of academic and professional success. The initiative promoted positive representation, disability inclusion, social integration and the recognition of individual capabilities, helping challenge stereotypes and encourage more equitable participation.



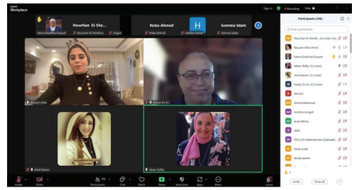
Autism Awareness Campaign

As part of its commitment to social justice, social inclusion, equal opportunity, and reducing inequalities, the Arab Academy for Science, Technology and Maritime Transport (AASTMT), through its College of Medicine at El Alamein Campus and the Arab Medical Students' Association (AMSA), announced an Autism Awareness Campaign scheduled for 26 June 2025, at Jaidaa Kinderland Academy, in collaboration with Dr. Marwa Saeed. The campaign was designed to raise awareness of autism spectrum disorder, challenge misconceptions, and promote greater understanding and acceptance of individuals with autism. Through interactive educational discussions, the initiative aimed to encourage inclusive education, disability inclusion, social integration, and non-discrimination, while highlighting the importance of supportive educational and community environments.



Combating Violence Against Women – Female Journalists Workshop, 25 November 2024

On 25 November 2024, AASTMT's College of Language and Media at Miami Campus organized a workshop entitled "Voices of Female Journalists: Combating Violence and Promoting Rights During Crises." The workshop addressed physical and psychological violence affecting women in professional environments, particularly female journalists working during crises. Through case studies, discussions of legislation and professional safety measures, the initiative promoted awareness of women's rights, protection against discrimination and the importance of safe and equitable working conditions.



Women's Empowerment and Equal Opportunities in Maritime Careers

AASTMT's Marine and Offshore Engineering Department, in collaboration with the College of International Transport and Logistics, announced a celebration of the International Day for Women in Maritime, scheduled for 18 May 2025. The initiative aimed to connect female students with successful women professionals from the maritime, offshore engineering, petroleum and logistics sectors. By highlighting women's professional achievements and career pathways, the event sought to challenge gender stereotypes, encourage women's participation in traditionally male-dominated industries and promote equal career opportunities and professional empowerment.



Recognizing and Empowering Students with Disabilities – Inspiring Success Stories and Unwavering Dreams

As part of its ongoing commitment to social justice, social inclusion, equal opportunity, non-discrimination, and reducing social inequality, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) organized a symposium entitled "The Academy's Role in Supporting and Caring for People with Disabilities," under the patronage of Professor Dr. Ismail Abdel Ghaffar Ismail Farag, President of AASTMT. The initiative highlighted the Academy's commitment to providing an inclusive educational environment that supports students with disabilities through accessible educational facilities, psychological and social support, skills-development workshops, and training opportunities designed to enhance their academic achievement, personal development, and social integration. During the event, outstanding students and graduates with disabilities were honored, including Nada and Nadine Sherif El-Mansi, teaching assistants at the College, and Farah Emad, who presented the ceremony. By recognizing their achievements and showcasing inspiring success stories, AASTMT reinforced the importance of equal opportunities, disability inclusion, empowerment of underrepresented groups, and upward social mobility. The initiative demonstrates the Academy's institutional commitment to addressing barriers to participation in higher education and fostering a supportive academic.



UPCOMING GOALS

Building on its achievements during the academic year 2024–2025, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) aims to further strengthen its commitment to SDG 10 – Reduced Inequalities by expanding inclusive educational opportunities, promoting social justice, and empowering underrepresented and disadvantaged groups. The Academy seeks to enhance accessibility and disability support services, expand scholarship opportunities for refugees and financially disadvantaged students, and strengthen vocational training, entrepreneurship, and career development initiatives that promote equal opportunities and upward social mobility. Particular emphasis will be placed on advancing women's empowerment, supporting inclusive employment, and expanding strategic partnerships with national and international organizations and civil society institutions. Through these efforts, AASTMT aspires to foster a more inclusive, equitable, and non-discriminatory educational environment, strengthen community engagement, and achieve measurable progress in reducing educational, social, and economic inequalities.

GOAL 11 - SUSTAINABLE CITIES & COMMUNITIES

OUR AIM IN 2024-2025

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) is dedicated to accelerating the transition toward smart, carbon-neutral, and climate-resilient urban environments. By integrating green infrastructure, sustainable mobility, free public access, and cultural heritage preservation across its campuses and host communities, AASTMT translates academic excellence into measurable societal and environmental impact.

THE IMPACT RANKING SCORES 2023-2024

THE IMPACT RANKINGS

11 SUSTAINABLE CITIES AND COMMUNITIES

SCORE **65.8**

RANK **101–200** out of **865** institutions



KEY MILESTONES IN 2024-2025

Building upon its performance in the 2023–2024 THE Impact Rankings, AASTMT has institutionalized SDG 11 across education, research, campus operations, and external partnerships through two integrated strategic pillars:

Pillar I: In-Campus Sustainability & Governance (Internal Impact)

1. **Institutional Engagement:** Mobilizing students, faculty, and administrative staff through cross-disciplinary SDG 11 task forces and sustainability awareness campaigns.
2. **Curriculum Innovation:** Embedding sustainable urban planning, resilient infrastructure, and green logistics across undergraduate and postgraduate academic programs.
3. **Applied Student Innovation:** Participating in national and international symposiums, workshops, and competitions focused on practical urban sustainability solutions.
4. **Low-Carbon Campus Operations:** Accelerating green campus transformation through energy-efficient infrastructure, organic waste recycling, water-efficient green spaces, and low-emission commuting.
5. **Cultural & Heritage Investment:** Amplifying institutional expenditure on arts and cultural heritage preservation by 23.4% during the 2024–2025 reporting cycle.

Pillar II: Urban & Community Transformation (External Impact)

1. **Public-Sector & Policy Partnerships:** Strengthening formal collaborations with governmental bodies and NGOs—exemplified by strategic agreements with the Ministry of Transport, the Ministry of Housing, and the Alexandria Governorate—to upgrade urban infrastructure and public services.
2. **Regional Sustainable Urbanization:** Spearheading sustainable campus and community development in emerging urban centers, notably New Alamein and Aswan, through environmentally responsible urban reconstruction.
3. **Open Knowledge Ecosystems: Operating AASTMT libraries and scientific centers as free, publicly accessible knowledge hubs for surrounding communities.**
4. **Sustainable Mobility Advocacy: Promoting electric vehicles, shared commuting, and mass transit connectivity to reduce urban congestion and greenhouse gas emissions.**



COMMUNITY ENGAGEMENT

During the 2024–2025 reporting period, AASTMT strengthened inclusive urban development by providing free and structured public access to its educational, scientific, cultural, and recreational infrastructure:

- **Public Access to Educational & Scientific Facilities:** Opening engineering laboratories, the Planetarium Center, and campus libraries to school students and external visitors through free educational visits, workshops, and public exhibitions.
- **Youth Engagement & Applied Innovation:** Supporting student and youth participation in hands-on STEM workshops, summer camps, and sustainable design showcases.
- **Strategic Partnerships & Heritage Preservation:** Partnering with local institutions, community organizations, and international consortia (such as TOURITAGE) to support cultural heritage documentation and sustainable valorisation.
- **Sustainable Mobility & Accessible Transportation:** Promoting low-carbon commuting through carpooling initiatives and expanded inter-city bus networks.
- **Public Access to Cultural, Recreational & Green Spaces:** Providing external visitors and community groups with open access to cultural exhibitions, landscaped green spaces, and sports facilities.





EVENTS

Public Access to Buildings:

Opening Engineering Facilities to Schoolchildren — Hands-on Electronics for Kidzineers Workshop (19 December 2024)
AASTMT's IEEE HKN Mu Beta Chapter opened the specialized laboratories of the College of Engineering and Technology (Abu Qir Campus) free of charge to 40 external schoolchildren aged 8–10 from Pioneers International School. The workshop provided early, inclusive public access to university STEM facilities through interactive electronics activities.



Opening Educational Facilities to School Students — *Engineering Summer Camps* (12–13 August 2025)
AASTMT's College of Engineering and Technology organized a two-day open-access summer camp at Abu Qir Campus, granting external high-school students' hands-on access to the Electrical Circuits, Renewable Energy, and Industrial Control Laboratories as well as the rooftop photovoltaic station, introducing youth to practical engineering and clean energy technologies.



Public Access to Libraries:

Promoting Public Access to Library Resources — *Pioneers School Visit to* Alamein Public Library (8 December 2024)
AASTMT's Alamein Public Library welcomed external school students for a structured educational visit to explore open-access book collections, historical publications, and online library catalogues, fostering lifelong learning and equitable public access to information.



Promoting Community Engagement with Literature — *Book Fair at Alamein Public Library* (1 December 2024)

Open free of charge to the wider public across all age groups, the Alamein Public Library Book Fair provided external visitors with access to diverse literary and educational publications, reading competitions, and interactive sessions



Public Access to Museums:

Opening Scientific Exhibitions to External Visitors — *Planetarium Center Visits* (2024–2025)
AASTMT provides scheduled public and educational access to its Planetarium Center and scientific displays at Abu Qir Campus for school groups, community visitors, and international delegations (including visiting groups from Egypt, China, Cyprus, Mauritania, Equatorial Guinea, and Marywood University), promoting public engagement with science and interactive museum exhibits.



Public Engagement with Sustainable Art & Design — *College of Art & Design Showcase at Le Marché Exhibition* (4 October 2024)
AASTMT interior and furniture design students presented sustainable material boards, ergonomic concepts, and eco-friendly interior design projects in an open public exhibition space accessible to consumers, families, and manufacturers.



Public Access to Green Spaces:

Promoting Community Access to Recreational Green Spaces — *Modern Pentathlon World Cup Final 2025 (4–14 July 2025*
AASTMT opened its landscaped outdoor grounds and green sports complexes at the Alexandria Campus to host the UIPM Modern Pentathlon World Cup, Relay, and African Championship 2025, welcoming 340 athletes from 36 countries alongside public spectators and community youth.



Providing Shared Community Access to Campus Green Grounds — *External Sports Club Training Camps* (July–*August 2025)*
Under its community facility-sharing framework, AASTMT granted six external sports clubs structured access to its outdoor pitches and green recreational facilities at Abu Qir Campus, supporting public health and community engagement.



Arts and Heritage Contribution:

Preserving Traditional Musical Heritage — *AASTMT Alexandria Choir at Creativity 13 Festival* (8–15 February 2025)
AASTMT actively promotes public engagement with Egyptian and Arab cultural heritage by hosting open cultural festivals, theatrical productions, and musical performances accessible to students, families, and external community visitors. During the *Creativity 13 Festival* (8–15 February 2025), the AASTMT Alexandria Choir presented traditional musical heritage before public audiences and national juries. Similarly, the *Ramadan Suhoor Cultural Evening* at Heliopolis Campus (20 March 2025) featured a student-led theatrical adaptation of the classic Egyptian operetta *El Leila El Kebira*, preserving intangible theatrical heritage and fostering community-wide cultural appreciation.

Cross-Cultural Heritage Exchange and Public Exhibitions
Through *Arab Cultural Heritage Day* at the Smart Village Campus (29 October 2024), the Academy opened its outdoor exhibition spaces to showcase traditional crafts, folk arts, culinary heritage, and cultural displays representing diverse Arab nations, encouraging intercultural dialogue among students, faculty, and invited guests.

International Research and Documentation of Cultural Heritage (TOURITAGE)
Beyond live events, AASTMT contributes to the long-term preservation and sustainable management of historical sites through the international *TOURITAGE (Tourism-Led Heritage Development)* project (2023–2026). Through academic research, heritage-site case studies, methodological manuals, and international exhibitions, the Academy supports the scientific documentation and adaptive valorisation of cultural heritage assets.



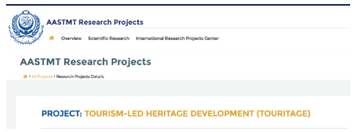
Promoting Egyptian Theatrical Heritage through Student Performances: Ramadan Suhoor 2025 – Heliopolis Campus (20 March 2025)
Open to students, families, and external guests, the Heliopolis Campus hosted a live musical theatrical performance inspired by the classic Egyptian operetta *El Leila El Kebira* alongside a student talent showcase, celebrating and preserving national theatrical and musical heritage.



Celebrating Arab Cultural Heritage: Arab Cultural Heritage Day – Smart Village Campus (29 October 2024)
AASTMT transformed its Smart Village outdoor plaza into an open cultural exhibition bringing together academic staff, officials, students, and invited guests from diverse nationalities to showcase traditional attire, regional cuisines, and folkloric performances, fostering intercultural heritage exchange.



Contributing to Cultural Heritage Preservation and Development: TOURITAGE – Tourism-Led Heritage Development Project (February 2023–January 2026)
Through the international TOURITAGE (Tourism-Led Heritage Development) project, AASTMT advances the scientific documentation, management, and adaptive valorisation of cultural heritage sites via applied research, heritage case studies, guiding manuals, and international exhibitions.



Sustainable Practices:

Waste Circularity & Water-Smart Landscaping Organic Waste Recycling & Circular Resource Recovery
AASTMT promotes sustainable waste management through on-campus composting of food and agricultural residues at Abu Qir Campus. During

the 2024–2025 academic year, the facility produced approximately 15 tonnes of organic compost for campus landscaping, advancing circular resource recovery, landfill diversion, and soil and water protection.





AASTMT Promotes Sustainable Campus Landscaping and Water Conservation
During the 2024/2025 academic year, AASTMT enhanced its campus green spaces through planting and landscaping activities, including the use of 50 drought-tolerant yellow bells plants at Alamein Campus. Combined with the use of 15 tonnes of recycled compost for soil improvement, these practices support water conservation, sustainable landscaping, and efficient resource use.



Promote Sustainable Commuting:

Expanding Sustainable Mass Transit — *New Student Bus Routes to New Alamein* (24 September 2024)
AASTMT introduced dedicated inter-city shuttle bus routes connecting its New Alamein Campus with Alexandria and Cairo, encouraging a modal shift from single-occupancy cars to organized shared transportation and reducing per-capita transport emissions.



Encouraging Shared Mobility: AASTMT Car Pooling Day (27 October 2024)
Through its Car Pooling Day campaign at Abu Qir Campus, AASTMT incentivized students and staff to share daily commutes, measurably lowering vehicle miles travelled, campus parking demand, local traffic congestion, and commuting carbon footprints.



Allow Remote Working and Flexible Digital Operations:

Institutional Policy for Remote Work and Hybrid Collaboration
AASTMT implements flexible administrative and academic workflows that enable faculty members, administrative staff, and researchers to perform duties remotely when appropriate. Through secure cloud-based institutional systems, electronic document management (Paperless AASTMT), and the integrated Staff Portal, routine administrative approvals, academic advising, and committee meetings are conducted digitally. This institutional framework reduces daily commuting requirements, lowers campus traffic congestion, and minimizes transport-related carbon emissions across all branches.

Virtual Learning and Hybrid Academic Delivery

Alongside administrative flexibility, AASTMT utilizes its Moodle Learning Management System and virtual conferencing platforms to deliver online lectures, specialized training courses, and hybrid seminars. By enabling remote participation in academic and professional development events—such as the *Risk Management and HAZOP Study* and *Extra Low Voltage (ELV)* training programs—the Academy reduces unnecessary inter-city travel while maintaining uninterrupted educational access.

Promoting Virtual and Hybrid Academic Engagement
Through online seminars, virtual training and hybrid academic events, AASTMT enables participants from different locations to engage in educational and professional activities without always requiring physical attendance. These arrangements support digital collaboration and can reduce travel-related pressure on urban transport systems.

Affordable Housing for Employees:

Providing Subsidized On-Campus Accommodation for Employees
AASTMT provides **on-campus residential accommodation** for faculty and staff across its branches through **at-cost housing arrangements** and **institutional financial support**, ensuring residential stability, reducing daily commuting distances, and fostering an inclusive workplace.



Affordable Housing for Students:

AASTMT provides student accommodation across its campuses in Alexandria (Abu Qir), Port Said, El Alamein and Aswan, offering an alternative to private rental housing and supporting students' access to higher education. Its 2024/2025 student-support arrangements further promote affordability by allowing students facing financial hardship to access university accommodation at nominal fees, with full fee exemptions considered in exceptional cases following committee review. These services contribute to student welfare, social inclusion and academic continuity.



Pedestrian Priority on Campus:

Promoting Safe & Inclusive Pedestrian Mobility across AASTMT Campuses
Through its Transport and Travel Planning Policy, AASTMT enforces a pedestrian-first campus design featuring connected walkways, clear separation between pedestrian paths and vehicular traffic, perimeter parking lots, accessible crossings, and improved wayfinding. As illustrated in the Abu Qir Campus spatial mobility plan, all academic and recreational facilities are interconnected within a safe, walkable radius of less than 10 minutes from the main transit entrance, ensuring universal accessibility and reducing internal vehicle trips.



Local Authority Collaboration Regarding Planning and Development
AASTMT strengthens institutional collaboration with local and national authorities through formal cooperation protocols, joint infrastructure projects, and urban-development task forces. Strategic partnerships with the Ministry of Housing, Utilities and Urban Communities, the Ministry of Transport, and local governorates address sustainable urban planning, municipal waste management, and coastal environmental protection, translating academic expertise into safer, better-planned, and more resilient communities.



Planning Development – Sustainable New Build Standards
AASTMT embeds green building standards across its new campus developments, exemplified by the College of Engineering building at New Alamein Campus. The facility incorporates energy-efficient thermal glazing, motion-sensor LED lighting, high-efficiency HVAC systems, rooftop solar photovoltaic arrays, and rainwater harvesting infrastructure. Reinforced by student training in smart home automation and water-efficient landscape design, AASTMT's infrastructure models climate-responsive architecture.





Building on Brownfield Sites & Urban Regeneration
In alignment with sustainable land-use principles, AASTMT prioritizes brownfield regeneration, adaptive reuse of existing facilities, and development within designated urban regeneration zones over greenfield expansion. Through active participation in the 12th World Urban Forum (WUF12) and joint neighborhood-scale urban design initiatives with the New Alamein City Authority, AASTMT promotes responsible land-use planning and compact urban regeneration.



STRATEGIC ROADMAP & UPCOMING GOALS (2025–2027)

AASTMT aims to build on its ongoing contributions to SDG 11 by promoting inclusive communities, preserving cultural heritage, expanding public access to educational and cultural facilities, and encouraging research and innovation. The Academy also seeks to strengthen sustainable mobility, environmental awareness, institutional cooperation, and environmentally responsible urban development to support more sustainable and resilient communities.

Future Goals and Scheduled Plans

1. **Expanding Free Public Access to Educational & Cultural Facilities:** Scale scheduled open days and free public access to AASTMT libraries, laboratories, planetarium exhibitions, and cultural venues.

2. **Advancing Cultural Heritage Preservation & Awareness:** Deepen international heritage documentation research, digital archiving, and adaptive reuse initiatives.

3. **Encouraging Inclusive Community Participation & Recreation:** Expand free youth sports clinics and accessible green-space programming for local communities.

4. **Supporting Research & Innovation for Sustainable Urban Development:** Increase interdisciplinary research output and pilot deployments in smart cities, resilient infrastructure, and sustainable built environments.

5. **Enhancing Arts, Culture & Public Engagement:** Grow public art exhibitions, theatrical productions, and traditional cultural festivals connecting academia with society.

6. **Promoting Environmental Awareness & Circular Campus Operations:** Scale organic waste composting, zero-waste programs, and water conservation across all regional branches.

7. **Decarbonizing Campus & Urban Mobility:** Expand electric campus shuttles, EV charging infrastructure, and inter-city carpooling networks.

8. **Strengthening Governmental & Municipal Cooperation:** Co-develop sustainable urban planning, coastal resilience, and integrated transport policies with public authorities.

9. **Enforcing Sustainable Architecture & Green Building Standards:** Apply green building certification standards across all campus renovations and new construction projects.

GOAL 12 - RESPONSIBLE CONSUMPTION AND PRODUCTION

OUR AIM IN 2024-2025

AASTMT advanced SDG12 by expanding campus waste-reduction systems, supporting national waste-management projects, and empowering students with impactful recycling and circular-economy initiatives.

THE IMPACT RANKING SCORES 2023-2024

THE IMPACT RANKINGS

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

SCORE **81.5** RANK **=91** out of **758** institutions



KEY MILESTONES IN 2024-2025

BRCGS Food Safety Global Standard Training Course for Silo Foods

On 11 November 2024, the Productivity and Quality Institute at AASTMT delivered a training course on the BRCGS Food Safety Global Standard — developed by the British Retail Consortium — for Silo Foods Company, led by Dr. Moustafa Elsayed. The course covered food safety, quality and operational requirements for food manufacturers and foodservice organisations, with a focus on hygiene and safety practices that ensure ethical and responsible sourcing throughout the production chain. The BRCGS certification is recognised worldwide as a benchmark for food safety and quality management.

Medical Waste Disposal Procedures Within the Arab Academy

During the 2024/2025 academic year, the College of Pharmacy at AASTMT reinforced its commitment to environmental safety by strengthening the hazardous-waste disposal programme in its laboratories. Liquid chemical waste is collected in dedicated bottles in each laboratory before being transferred into larger containers, while broken glass is stored and handled separately. All laboratory hazardous waste is ultimately handed over to Nahdet Misr, AASTMT's certified waste-management partner, for safe and compliant disposal.





AASTMT's TouMaLi Project Named "Champion of Plastic Pollution Prevention in the Mediterranean"

In October 2024, the EU-funded TouMaLi project, in which AASTMT is the Egyptian partner, was awarded the honorary title "Champion of Plastic Pollution Prevention in the Mediterranean" in recognition of its voluntary action against plastic pollution. The title was awarded under the regional campaign of the EU-funded Water and Environment Support (WES) project, run in partnership with the Union for the Mediterranean and the Mediterranean Action Plan of the UN Environment Programme. The campaign focuses on reducing single-use plastics and plastic waste in the Mediterranean, and the award recognises the project's work with the tourism sector, including the hotel waste management and extended producer responsibility activities that AASTMT delivers in Alexandria.

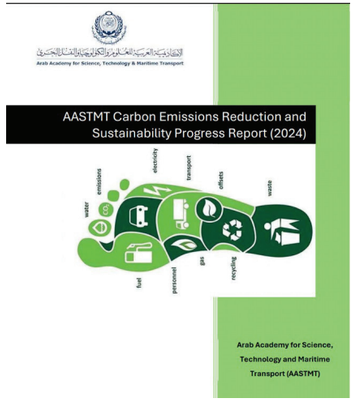


Inorganic Waste Quantities Tracked and Disclosed Through UI GreenMetric

AASTMT continues to measure and publicly disclose the quantities of waste generated and treated across its campuses through its annual UI GreenMetric returns. The most recent reported figures show total inorganic non-toxic waste falling from 307 tonnes to 282 tonnes — a reduction of 25 tonnes, or 8.1% — of which 198 tonnes, 70.2%, were reused or recycled. The figures are broken down by stream: paper and cardboard fell from 135 to 124 tonnes (77.4% treated), soft and hard plastic from 134 to 126 tonnes (70.6% treated), and miscellaneous waste from 38 to 32 tonnes. AASTMT has also introduced an electronic waste recycling programme to ensure obsolete equipment is disposed of sustainably.

AASTMT Carbon Emissions Reduction and Sustainability Progress Report (2024)

On 30 April 2025, AASTMT published its Carbon Emissions Reduction and Sustainability Progress Report, a 19-page public document covering performance during 2024 against its 2018–2021 baseline and the preceding 2022–2023 report, and tracking the Academy against its Climate Action Plan milestones of at least a 30% reduction by 2025 and 50% by 2040. On waste, the report records expanded labelled collection points, reinforced operating procedures and term-start refresher briefings for staff and students, with recycling focused on paper, plastics and e-waste routed to approved local facilities and NGO partners, and annual checkpoints used to address bin placement and contamination. It sets a 2030 goal to divert at least 70% of campus waste from landfill and commits to completing a comprehensive recycling assessment and optimisation plan in 2025. These resource measures are linked to a fall of roughly 3% in Scope 3 emissions, to 101,873,000 kg CO_2-e, with total emissions 32.8% below the 2019 base year.



COMMUNITY ENGAGEMENT

AASTMT Delivers 23 Sanitary Landfills for Waste Management Across 16 Governorates

In a statement published on 31 October 2024, AASTMT reported on its four-year role (2019–2023) in developing Egypt's solid waste management system, during which it participated with the relevant ministries in building the infrastructure of the new waste system and in training and qualifying governorate staff to operate, manage and monitor it across collection, transport, treatment and final disposal. The Academy also supported the adaptation of international systems and modern waste technologies to Egyptian conditions and raised awareness among decision makers of global strategies for all waste streams. Its stated aim was to steer national plans towards integrated waste management and to maximise the return on public investment in the sector.



AASTMT and Nahdet Misr Launch a Pilot Project to Clean Up Alexandria's Beaches
On 10 October 2024, Nahdet Misr for Modern Environmental Services — the Arab Contractors company responsible for public cleaning in Alexandria — announced new screening equipment to tackle marine waste, operating under Alexandria Governorate through joint cooperation between Nahdet Misr, AASTMT and the German Ministry of the Environment. Working with the Academy, the company began trial operation of a sand-cleaning system using two new sand-sieving machines that screen sand from public beaches and hotels, coordinated with Alexandria's Central Administration for Tourism and Resorts. The project is aimed at disposing of marine debris safely and reducing the use of single-use plastic.



AASTMT Launches the "Every Drop Counts" Conservation Campaign
On 24 October 2024, AASTMT launched the "Every Drop Counts" campaign to promote responsible consumption among students and staff. Awareness posters were placed in teaching laboratories across several departments, reminding users to avoid waste during experiments and in daily use, and placed alongside standing instructions prohibiting the disposal of materials or chemicals down laboratory drains. Faculty members reinforced efficient use, leak reporting and sustainable laboratory practice during practical sessions, embedding minimisation behaviour into everyday campus life.



EVENTS

Technical and Vocational Institute Students Visit Edita Food Industries
On 28 November 2024, the Industry Engagement Unit organised a field trip for students of the Technical and Vocational Institute at the Smart Village Branch to Factory No. 8 of Edita Food Industries in 6th of October City. Students followed the production stages of two of the company's product lines and learned about the food safety procedures applied on the line, gaining first-hand exposure to responsible food production and the quality controls that support ethical sourcing across the food supply chain.



Technical and Vocational Institute Students Visit Lamar Farm and Factory in Nubaria
On 30 April 2025, in coordination with the Industry Engagement Unit, students of the Technical and Vocational Institute – Alexandria Branch visited Lamar Farm and Factory in Nubaria. They toured the farm and the dairy and juice factory, following each stage of production and packaging from farm to finished product, which links classroom learning to sustainable food production and responsible packaging along the supply chain.



AASTMT Hosts Workshop on Responsible Ship Recycling with Global Marketing Systems (GMS)
On 4 November 2024, the Department of Marine and Offshore Engineering at the College of Engineering and Technology held an online workshop entitled "Responsible Ship Recycling – Innovations and Best Practices" in collaboration with Global Marketing Systems Inc. (GMS), one of the world's largest ship-recycling companies. The session was delivered by Dr. Anand Hiremath, Chief Sustainability Officer at GMS, and Eng. Kiran Thorat, Trader at GMS Dubai. Ship recycling involves the controlled removal of hazardous materials from end-of-life vessels, and the workshop addressed the technical and regulatory practices required to carry this out safely and responsibly.

TouMaLi EPR Workshop: Extended Producer Responsibility for Packaging Waste in Egypt
On 27–28 January 2025, AASTMT hosted a two-day workshop on Extended Producer Responsibility (EPR) for packaging waste under the EU-funded TouMaLi project at its Alexandria campus. The event brought together Egyptian government officials, private-sector representatives and international waste management experts to discuss the design and implementation of an EPR system for Egypt. Dr. Gasser E. Hassan from AASTMT presented on the TouMaLi project's progress and introduced the Circul8 digital platform for tracking packaging waste data across the value chain. The workshop agreed that AASTMT would compile the list of products used by participating hotels and convert the collected data from items into kilograms for reporting on the Circul8 platform, with data collection already under way at the Sunrise Hotel in Alexandria. As a follow-up, the Landbell Group delivered Circul8 training in Alexandria on 25 February 2025 for Egypt's Waste Management Regulatory Authority (WMRA) to support an EPR register for packaging waste from the tourism sector. The workshop supports the Academy's community-service mission by extending waste-management knowledge to government and industry stakeholders.

UPCOMING GOALS

Strengthening Circular Economy Practices Across All Campuses
AASTMT aims to expand circular economy models by increasing recycling rates, reducing waste generation at the source, and integrating sustainable materials into campus operations. This will include improved waste segregation, digital tracking of waste streams, and partnerships with industry to convert waste into value-added products. The goal is to create a "zero-waste campus culture" where students, faculty, and staff actively participate in responsible resource use.

Advancing Sustainable Industrial and Research Innovation
AASTMT will continue to invest in research, innovation, and training programs that support eco-efficient production, greener technologies, and responsible industrial practices. New labs, living labs, and applied research projects will focus on waste-to-resource solutions, sustainable manufacturing, and green engineering. Through these initiatives, the Academy seeks to empower students and researchers to design scalable solutions that address national and regional sustainability challenges.

Enhancing Capacity Building and Community Engagement in Sustainable Consumption
AASTMT plans to broaden its sustainability outreach by developing targeted training programs, workshops, and community partnerships that promote responsible consumption and environmental awareness. This includes delivering specialized training on waste management, sustainable consumption behavior, food waste reduction, and eco-friendly lifestyles. The goal is to extend the impact of SDG 12 beyond campus boundaries and build sustainability competencies among youth, professionals, and local communities.

GOAL 13 - CLIMATE ACTION

OUR AIM IN 2024-2025

Advance SDG 13 by measurably cutting campus CO_2/GHG emissions through expanded low-carbon energy and efficiency; scaling climate-literacy programs with NGO/government partners to strengthen adaptation and early-warning in coastal and urban communities; and embedding transparent public reporting to drive a credible path to net-zero.

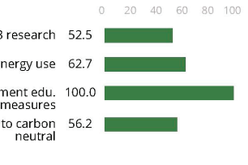
THE IMPACT RANKING SCORES 2023-2024

THE IMPACT RANKINGS

13 CLIMATE ACTION

SCORE 67.0

RANK 101–200 out of 826 institutions



KEY MILESTONES IN 2024-2025

During 2024–2025, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) strengthened its institutional commitment to climate action through measurable reductions in greenhouse gas emissions, expanded carbon footprint monitoring, increased integration of renewable energy, climate education, and regional cooperation on disaster risk reduction. Building on its commitment to the UNFCCC Race to Zero campaign, AASTMT advanced its transition towards net-zero emissions by 2050 through institutional policies, measurable targets, scientific research, and community-oriented initiatives.

Climate Action Plan 2025–2030: Pathway to Net Zero

AASTMT introduced an updated institutional Climate Action Plan establishing a structured framework for greenhouse gas monitoring, emissions reduction, renewable energy expansion, resource efficiency, and stakeholder engagement. The plan reinforces the Academy's commitment to net-zero emissions by 2050. AASTMT's published historical emissions series for its Alexandria campuses recorded a 32.8% reduction in greenhouse gas emissions in 2024 compared with the 2019 baseline, achieving the 2025 interim reduction target ahead of schedule. The 2024–2025 carbon footprint assessment expanded emissions monitoring to four campuses: Abu Qir, Misr El-Gedida, Smart Village, and South Valley. It covered Scope 1, Scope 2, and Scope 3 emissions.



Enhancing AASTMT Low-Carbon Energy Contribution and Institutional Efficiency

AASTMT recorded 17,682.84 GJ of energy from low-carbon sources in 2025, compared with 17,494 GJ in 2024. On-site solar electricity generation increased by approximately 4.78%, reaching 79,632 kWh in 2025. Electricity consumption across AASTMT branches decreased from 19,055,865 kWh in 2024 to 18,585,647 kWh in 2025, reflecting continued energy conservation and efficiency improvements.

Institutional Framework for Energy Monitoring and Low-Carbon Energy Management

AASTMT's Green Energy and Energy Management and Environmental policies provide an institutional framework for climate action (**SDG 13**) and low-carbon energy tracking during the 2024–2025 reporting period. Developed through the Energy Research Unit and Energy Management Committee, the policies promote energy efficiency, regular online monitoring of energy consumption, smart building technologies, and renewable energy installations, including solar PV systems. They also support greenhouse gas (GHG) emissions reduction, with institutional commitments to cut emissions by 50% by 2040 and achieve Net-Zero Carbon by 2050.

Institutional Commitment to Carbon Neutrality

AASTMT demonstrates its institutional commitment to climate action through its pledge to achieve net-zero greenhouse gas emissions by 2050 under the UNFCCC Race to Zero campaign. This commitment is supported by a structured decarbonization pathway, incorporating interim emission-reduction targets, regular greenhouse gas inventories covering Scope 1, Scope 2 and selected Scope 3 emissions, and continuous monitoring of institutional carbon performance.

Regional Leadership in Climate and Disaster Resilience

AASTMT hosted the first coordination meeting of the Arab Programme for Reducing Marine Disasters in June 2025, bringing together representatives from 15 Arab states and international organizations to develop a regional programme and its 2025–2027 Action Plan. AASTMT participated in the Multi-Hazard Resilience Forum, organized by the UNDRR Regional Office for Arab States, the Government of Egypt's National Committee for Crisis and Disaster Management under the Cabinet, and UNESCO. More than 60 delegates from government ministries, UN agencies, academic institutions, and international partners attended.



CLIMATE EDUCATION & PUBLIC AWARENESS

Expanded Climate Education and Awareness

AASTMT delivered eight climate-related programmes and awareness initiatives during 2025, covering climate risks, early warning, climate impacts, agricultural adaptation, renewable energy, green hydrogen, and carbon reduction. On climate change risks, impacts, mitigation, adaptation, and early warning. Risks and early warning (Multi-Hazard Resilience Forum); impacts (Green Guardians campaign); adaptation (climate-resilient farming workshop); mitigation (solar energy, green hydrogen, photovoltaics and e-mobility, carbon border tax mechanism). For local communities. The public, school communities and teachers, trainees of Caritas Egypt, participants from different sectors in Egypt and Yemen, and students.









Building Technical Capacity for Clean Energy Transition: Green Hydrogen, Solar Photovoltaics, and E-Mobility Workshops

AASTMT's College of Engineering and Technology organized two specialized workshops to build student and faculty

capacity in clean energy and climate mitigation. On April 14, 2025, the Marine and Offshore Engineering Department hosted *"The Hydrogen Horizon,* examining green hydrogen integration in the oil and gas sector. On November 9, 2025, the College and the AASTMT Research and Innovation Center—partnering with the Organic Egypt Foundation, bbw International, and the Bavarian Ministry of Economic Affairs—held *"Photovoltaics and E-Mobility in Egypt,"* featuring German and Egyptian experts discussing solar PV, battery storage, citizen energy communities, and AASTMT's internal renewable energy projects.





AASTMT EDUCATIONAL INITIATIVES SUPPORTING CLIMATE ACTION

Through its participation in international educational and research projects, AASTMT strengthens its contribution to climate change education, mitigation, and adaptation. These initiatives integrate climate-related knowledge into higher education, build technical and professional competencies in low-carbon technologies, encourage climate-resilient agricultural practices, and advance sustainable maritime and industrial solutions.

GREENMEDPORTS – Green Ports Cluster for a Sustainable Mediterranean Maritime and Transport Ecosystem

The GREENMEDPORTS project supports climate change mitigation education in the maritime sector through knowledge exchange, training, and capacity-building activities focused on sustainable port management and decarbonization strategies. Its activities include carbon-footprint monitoring, energy efficiency, and promoting low-emission port operations, strengthening maritime stakeholders' knowledge and competencies to address climate-related challenges.

SAFER – Sustainable Agri-Futures: Empowering Climate Resilience and Green Growth in Higher Education

The SAFER project promotes climate change adaptation and resilience through the integration of sustainable and climate-smart agricultural practices into higher education programmes. By developing digital educational resources, strengthening academic capacities, and providing training opportunities for students and agricultural professionals, the project supports knowledge transfer and the adoption of agricultural practices that respond to climate-related challenges.



GEMS-TECH – Green Maritime Horizons: Collaborative Innovation in Ship Engineering and Sustainable Technologies

The GEMS-TECH project aims to modernize maritime education by integrating green technologies, sustainable ship engineering, and digital innovation into higher education curricula. Through specialized learning modules, simulation facilities, laboratory-based training, and open-access educational resources, the project strengthens the competencies of students and academic staff in maritime decarbonization, energy-efficient ship technologies, and sustainable port operations.



COMMUNITY ENGAGEMENT

During 2024–2025, AASTMT extended its climate action commitment beyond institutional operations by engaging local communities, government authorities, non-governmental organizations, educational institutions, industry, and international partners. Through public awareness campaigns, technical training, collaborative research, and regional initiatives, the Academy promotes climate literacy, strengthens adaptation capacity, and supports practical solutions to climate-related challenges.

GOVERNMENT & INSTITUTIONAL COLLABORATION

AASTMT Marks Arab Day for Disaster Risk Reduction to Drive Regional Resilience

In alignment with League of Arab States initiatives, AASTMT hosted the "Arab Day for Disaster Risk Reduction" at its Abu Kir Campus in Alexandria under the theme "A Resilient Arab Society in the Face of Disasters." Organized by the Department of Sustainable Environment, the hybrid event connected all AASTMT campuses and regional officials via live broadcast to advance emergency response planning. Ultimately, this milestone celebration reinforces AASTMT's leading technical role in driving climate adaptation, disaster preparedness, and institutional resilience across the Arab world.



AASTMT President and H.E. the Minister of Local Development and Acting Minister of Environment

On October 8, 2025, the President of AASTMT met with H.E. Dr. Manal Awad, Minister of Local Development and Acting Minister of Environment, to strengthen bilateral cooperation in alignment with Egypt's Vision 2030. Discussions centered on advancing joint initiatives across local development, scientific research, capacity building, waste management, renewable energy, and climate change mitigation. Overall, this strategic engagement underscores AASTMT's active institutional integration into national environmental planning and governmental sustainability frameworks.



Supporting Government Climate-Risk Monitoring: AASTMT's Environmental Monitoring and Climate Change Laboratory (EMCCL)

EMCC at AASTMT provides critical scientific and technical infrastructure to support local and regional government authorities in climate-risk monitoring, environmental surveillance, and disaster preparedness. Integrating comprehensive meteorological tracking (temperature, humidity, wind, atmospheric pressure, precipitation, and lightning) with air- and water-quality analysis, coastal monitoring, and GIS-based climate-risk modeling, the laboratory enables the early identification of climate hazards such as extreme weather events, flooding, and coastal vulnerabilities.

ENGAGEMENT WITH NGOS & CIVIL SOCIETY

AASTMT strengthens its community outreach through collaborations with non-governmental organizations and civil society partners, translating academic knowledge into practical environmental and climate initiatives.

Engagement with Arab Association for Navigation (AIN)

In partnership with the Arab Institute of Navigation (AIN) across two milestone events in Alexandria—the 11th International MELAHA Conference (23 September, 2024) and the Northern Egypt Fisheries Sustainability Workshop (8 September, 2025)—AASTMT reinforced NGO collaboration to advance both smart, low-carbon maritime transport and marine ecosystem protection. By pairing applied research on digital port efficiency and greenhouse gas reduction with stakeholder capacity building for sustainable fisheries, AASTMT continues to drive coastal resilience and maritime decarbonization.





Engagement with EGET Foundation

As part of the Interreg NEXT MED-funded HEEFTA project (Ref: A_Y_3.1_0232_HEEFTA; 2025–2027), AASTMT actively collaborates with leading regional partners, including the prominent Non-Governmental Organization EGET Foundation (Education, Geriatrics,

Ecological Farming & Tourism Foundation, Türkiye). This strategic academic-NGO partnership leverages EGET's civil-society expertise in ecological farming, sustainable tourism, and community engagement to bridge academic knowledge with practical climate adaptation efforts.

Engagement with Arab-German Young Academy of Sciences and Humanities (AGYA)

Joint climate-resilient agriculture workshop addressing digital technologies, environmental monitoring, and agricultural adaptation. AASTMT, in collaboration with the Arab-German Young Academy of Sciences and Humanities (AGYA) and its Center for Future Studies and Risk Management, organized an international workshop entitled "Sustainable Farming in the Digital Age: Monitoring, Analytics, and Action for Climate Resilience", bringing together researchers and experts from six countries to address the effects of climate change, global warming, and changing climatic conditions on agricultural systems and food security. The workshop explored the application of AI, IoT, and precision agriculture in climate adaptation, environmental monitoring, and energy resources, particularly under increasing drought risks and climate-related pressures.



Engagement with Caritas Egypt Solar-Energy Training

Practical solar energy training under the EU-funded Hand in Hand project, supporting renewable energy skills and technical capacity building. AASTMT organized specialized Solar Energy Course activities at the Industry Service Complex workshops in Abu Kir. Held in collaboration with the non-governmental organization Caritas Egypt, the training focused on enhancing practical skills in renewable energy and green technologies.



Engagement with NGO-Led Environmental Awareness Initiatives

In October 2025, an AASTMT College of Medicine student represented the Academy at the COP30 Climate Simulation and Climate Conference Capacity Building Programme, organized by the British University in Egypt (BUE) in collaboration with the United Nations Development Programme (UNDP) to advance youth leadership in climate diplomacy, policy dialogues, and climate adaptation strategies. Alongside simulated negotiations, the programme featured a Sustainability Exhibition promoting community awareness through student innovations and NGO-led grassroots solutions documented by the Arab Office for Youth and Environment—including a plastic-waste management and mitigation project by Al-Rowad Foundation for Projects and Development and a sustainable local youth communities initiative by the Forum.



EVENTS

The following events demonstrate AASTMT's practical contribution to climate action, public education, technological innovation, and regional resilience.

Volvo Session – Electrification of Commercial Vehicles

As part of its commitment to promoting sustainable technologies and raising awareness of low-carbon transportation, the Faculty of Engineering and Technology at AASTMT, in collaboration with Volvo and the Regional Informatics Center, organized a specialized online session on 20 October 2025 as part of the EngoBots competition. The session, delivered by an expert from Volvo Buses UK & Ireland, explored Volvo Group's roadmap towards the electrification of commercial vehicles, including buses, trucks, construction equipment, and marine propulsion. Discussions addressed the transition to battery-electric vehicles, charging infrastructure, and the challenges of adopting electric transportation systems. The session highlighted the role of vehicle electrification in reducing dependence on fossil fuels and supporting the transition towards more sustainable, low-carbon transport.



Hydrogen Horizon Egypt: Path to Greener Energy in Oil and Gas Workshop

AASTMT hosted the "Hydrogen Horizon Egypt on 14 April, 2025: Path to Greener Energy in Oil and Gas" workshop to connect students with industry professionals and explore the role of hydrogen technologies in the transition towards cleaner energy systems. The event provided an opportunity for knowledge exchange on hydrogen applications and emerging technologies supporting the reduction of reliance on conventional fossil fuels.

AASTMT Participation in the Hydrogen Mediterranean Summit – February 2025

On 18–19 February 2025, AASTMT's Industry Service Complex participated in the Hydrogen Mediterranean Summit in Cairo, contributing to discussions on the role of hydrogen in the transition towards low-carbon energy systems. The participation included a panel discussion entitled "Hydrogen Village", which addressed hydrogen education, safe hydrogen transportation, and its potential contribution to carbon emissions reduction. On the second day, AASTMT delivered a presentation entitled "Education and Training & Green Hydrogen Technology", highlighting the importance of developing knowledge and technical capacity in emerging green hydrogen technologies.



MARLOG 14: Advancing Climate-Related Research and Sustainable Maritime Solutions

AASTMT organized the 14th International Maritime and Logistics Conference (MARLOG 14) from 23 to 25 February 2025 in Alexandria, under the theme "Artificial Intelligence Implementations – Towards Shaping the Future of the Digital World. Beyond its focus on digital transformation and maritime logistics, MARLOG 14 provided a platform for research and knowledge exchange on climate-related challenges and sustainable maritime solutions. The conference proceedings included research addressing climate change impacts on port activities, offshore wind energy, wave and solar energy applications in coastal zones, alternative marine fuels, emissions reduction in green ports, and AI-supported maritime decarbonization.



AASTMT–League of Arab States Workshop on Intelligent Systems for Sustainable Transportation

As part of its commitment to promoting sustainable transportation and supporting climate action, AASTMT, in collaboration with the League of Arab States, organized a regional workshop on Intelligent Systems for Sustainable Transportation on 5–6 October 2025 at its Smart Village Campus. The workshop explored the application of artificial intelligence and advanced communication technologies to improve transport efficiency, optimize fleet operations, reduce fuel consumption, and minimize transport-related greenhouse gas emissions.

UPCOMING GOALS

Strategic priority	Target / planned direction
Greenhouse gas reduction	At least 45% reduction by 2030 against the 2019 baseline, as set out in the plan
Renewable energy	Increase renewable electricity contribution towards 40% by 2040
Energy efficiency	Continue reducing electricity consumption and improving institutional energy intensity
Carbon monitoring	Strengthen annual GHG inventories and expand institutional monitoring across campuses
Climate education	Expand climate awareness programmes, professional training, and community workshops
Climate resilience	Strengthen early-warning preparedness, disaster risk reduction, and coastal resilience
Government and NGO partnerships	Expand joint initiatives, stakeholder engagement, and community-based climate projects
Research and innovation	Advance research in renewable energy, green hydrogen, digital monitoring, and climate adaptation
Net-zero commitment	Maintain the pathway towards net-zero greenhouse gas emissions by 2050

GOAL 14 - LIFE BELOW WATER

OUR AIM IN 2024-2025

AASTMT aimed to our aim for the academic year 2024-2025 was to reinforce our commitment to achieving Sustainable Development Goal 14 (SDG 14): Life Below Water. Recognizing the critical role that oceans and marine resources play in global sustainability, we dedicated ourselves to fostering innovative research, impactful education, and community engagement initiatives to promote marine conservation, sustainable fisheries, and the reduction of marine pollution.

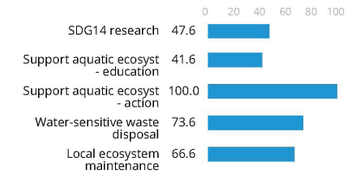
THE IMPACT RANKING SCORES 2023-2024

THE IMPACT RANKINGS

14 LIFE BELOW WATER

SCORE 65.5

RANK 101–200 out of 561 institutions



KEY MILESTONES IN 2024-2025

The Arab Academy for Science, Technology, and Maritime Transport (AASTMT) demonstrates its steadfast commitment to Sustainable Development Goal 14 (SDG 14) by familiarizing its students with it and including the necessary knowledge within the related educational programs, Curricula, and specialized courses. Although SDG14 is supported widely within the AASTMT maritime educational sector, AASTMT firmly believes that SDG14 is not limited to the maritime sector and promoting it to all AASTMTs' campuses and colleges. This dedication fosters a motivated and professional workforce, aligning with SDG 14's principles:

Aquaculture Program (Undergrad)
The College of Fisheries and Aquaculture Technology (CFAT) at AASTMT supports education and capacity building in aquatic resource management through its undergraduate Aquaculture Program. The program aims to provide education, applied scientific knowledge, practical training, and outreach relevant to the aquaculture sector and society.

The College of Fisheries and Aquaculture Technology signed a joint cooperation protocol with the General Authority for the Protection and Development of Lakes and Fish Resources
To strengthen institutional cooperation between higher education institutions and government authorities, the Arab Academy for Science, Technology and Maritime Transport (AASTMT), through its College of Fisheries and Aquaculture Technology (CFAT), signed a cooperation protocol with the General Authority for the Protection and Development of Lakes and Fish Resources on 19 May 2025.



The Graduation Project for Students of the Faculty of Fisheries and Aquaculture Technology was chosen under the title "Environmental and Biological Assessment of the use of Antifouling Paints on fishing Vessels in Abu Qir Bay and an Environmentally Friendly Solution based on Water Hyacinth Extract".
On Sunday, 21 April 2024, students of the College of Fisheries and Aquaculture Technology at the Arab Academy for Science, Technology and Maritime Transport (AASTMT) presented their graduation project entitled "Environmental and Biological Assessment of Antifouling Paints Used on Fishing Vessels in Abu Qir Bay and an Environmentally Friendly Alternative Based on Water Hyacinth Extract." The project was selected for presentation as part of the activities celebrating the International Day of Innovation and Creativity, in cooperation with the Bibliotheca Alexandrina.

Professor Dr. Hatem Hanafy Mahmoud, Dean of the Faculty of Fisheries Technology and Aquaculture, participated in a scientific lecture entitled: "Modern Trends in Fish Stock Assessment and Fisheries Management Models"
As part of the activities of the Second Scientific Forum of the Fisheries Division at the National Institute of Oceanography and Fisheries Sciences, "Integrated Fisheries Management", Professor Dr. Hatem Hanafy Mahmoud, Dean of the Faculty of Fisheries Technology and Aquaculture, participated in a scientific lecture entitled: "Modern Trends in Fish Stock Assessment and Fisheries Management Models" as part of the activities of the Second Scientific Forum of the Fisheries Division at the National Institute of Oceanography and Fisheries Sciences, "Integrated Fisheries Management: Challenges of Reality and Visions of the Future," on Monday, May 18, 2026, at the headquarters of the Institute's branch for the Mediterranean Sea and Northern Lakes in Anfoushi, Alexandria.



Representatives from the Faculty of Fisheries Technology and Aquaculture, including faculty members and students, participated in the distinguished workshop entitled "Marine Environment Degradation and Livelihood Challenges for Fishermen in Northern Egypt".
On 9 May 2026, Representatives from the Faculty of Fisheries Technology and Aquaculture, including faculty members and students, participated in the workshop, "Marine Environment Degradation and Livelihood Challenges for Fishermen in Northern Egypt," organized by the Arab Maritime Association in cooperation with the German Hans Seidel Foundation.



College of Fisheries and Aquaculture Technology Staff Member Participation in Fish Forum, 2024, Antalya, Turkey
On 23/02/2024, more than 400 participants gathered in Antalya, Türkiye, to scale up science for effective fisheries management at the second edition of the Forum on Fisheries Science in the Mediterranean and the Black Sea (Fish Forum 2024). The event, organized by the Food and Agriculture Organization of the United Nations (FAO) 's General Fisheries Commission for the Mediterranean (GFCM), is the region's most important scientific gathering on fisheries and related issues. Türkiye's Ministry of Agriculture and Forestry hosted this year's edition, funded by the European Union.



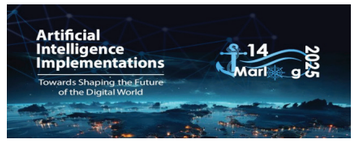
In the World Fisheries Day: AASTMT–Damietta Dialogue on Sustainable Fisheries and Aquatic Resource Conservation
On 21 November 2024, coinciding with World Fisheries Day, representatives of the College of Fisheries and Aquaculture Technology (CFAT), Arab Academy for Science, Technology and Maritime Transport (AASTMT), met with Her Excellency the Governor of Damietta to discuss opportunities for cooperation in sustainable fisheries and aquaculture development.



The College regularly represents Egypt in Working Groups on Stock Assessment (WGSA) for Demersal Species (WGSAD) and Small-Pelagic Species (WGSASP), organized by the General Fisheries Commission for the Mediterranean (GFCM), Food and Agriculture Organization of the United Nations.
The Arab Academy for Science, Technology and Maritime Transport (AASTMT), through its College of Fisheries and Aquaculture Technology, was represented by Prof. Hatem Hanafy Mahmoud and Dr. Reda Magdi Fahim at the General Fisheries Commission for the Mediterranean (GFCM) Working Group on Stock Assessment of Small Pelagic Species, held in the Metropolitan City of Rome Capital, Italy, from 8 to 13 December 2025.

MARLOG 14 – International Maritime and Logistics Conference: Environmental Sustainability in Coastal and Port Areas

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) organized the 14th International Maritime and Logistics Conference (MARLOG 14) in Alexandria from 23 to 25 February 2025.



College of Fisheries and Aquaculture Technology Staff Members participation in GFCM_FAO-UN working on Stock Assessment of the Round Sardinella in the Eastern Mediterranean, 2024

Prof. Hatem Hanafy Mahmoud and Dr. Reda Magdy Fahim of the College of Fisheries and Aquaculture Technology, Arab Academy for Science, Technology and Maritime Transport (AASTMT), participated in the regional scientific work coordinated by the GFCM and FAO on the stock assessment of round sardinella (Sardinella aurita) in the Eastern Mediterranean.



AASTMT Fisheries Expert Contributes to Egypt's Environmental Sustainability Strategy 2024–2027

On 14 Jan 2025, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) participated in high-level consultations with H.E. the Minister of Environment through a specialized advisory team, contributing scientific and technical expertise to the implementation of Egypt's Governmental Program 2024–2027, aligned with the Sustainable Development Strategy: Egypt Vision 2030.



Integrating Sustainable Development Goals in Universities to enhance Climate Change Management "INVOLVE." (2021 - 2024)

The mentioned research project aims to:

- Embody the principles of the environmental SDGs through organizational governance and strategic management of Egyptian universities to ensure their strategies align with the SDGs.
- Establish the Sustainable Development Center (SDC) in Egyptian universities to enhance organizational and internal capacity and ownership of the environmental SDGs, providing the necessary knowledge, skills, and motivation to understand and address them.
- Foster the achievement of environmental SDGs in Egyptian universities by increasing their operational capacities to develop environmentally sustainable campuses.

College Students participated in the "Green Innovation Week" under the Organization of the Academy of Scientific Research and Technology in cooperation with the Union of Arab Scientific Research Councils, the Arab Organization for Agricultural Development, the Islamic World Organization for Education, Culture and Science, and the Arab Forum for Circular Economy and Green Growth under the title "Green Innovation Week."

Within the framework of the interest of the Faculty of Fisheries and Aquaculture Technology at the Arab Academy for Science, Technology and Maritime Transport in achieving the sustainable development goals (especially Goal 14: Life Below Water) and the trend towards the blue economy, two students (Ahmed El-Mallah and Habiba Nasser) of the college participated in the "Green Innovation Week" under the organization of the Academy of Scientific Research and Technology in cooperation with the Union of the Arab Scientific Research Councils, the Arab Organization for Agricultural Development, and the Islamic World Educational, Scientific and Cultural Organization.



Participation of Faculty Members and Male and Female Students of the Academy's Faculty of Fisheries and Aquaculture Technology on Tuesday, April 30, 2024, in the Workshop for the Project: Curriculum Development for the Sustainable Blue Economy Study toward the Achievement of Ocean Decade in Tunisia, Egypt, and Jordan / BLUE-ERA

Faculty members and male and female students from the Academy's Faculty of Fisheries and Aquaculture Technology participated on Tuesday, April 30, 2024, in the workshop for the project: Curriculum Development for the Sustainable Blue Economy Study toward the Achievement of Ocean Decade in Tunisia, Egypt, and Jordan / BLUE-ERA.

The TouMaLi Research Project is a Comprehensive, Multi-Year Initiative Scheduled to run from 2021 to 2025.

Reducing marine litter in Northern Africa—specifically in countries like Algeria, Egypt, Morocco, and Tunisia—is essential for protecting the region's rich marine ecosystems. The strategy involves implementing sustainable waste management practices, promoting recycling, and encouraging reuse to minimize environmental impact. Key actions include coastal monitoring to track pollution levels, conducting comprehensive pollution assessments, and reviewing existing waste management systems to identify areas for improvement.



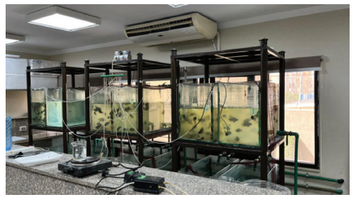
Cooperation between the Arab Academy for Science, Technology & Maritime Transport (AASTMT) and the Lakes and Fish Resources Protection and Development Agency (LFRPDA)

In the framework of cooperation between the Arab Academy for Science, Technology & Maritime Transport (AASTMT) and the Lakes and Fish Resources Protection and Development Agency (LFRPDA), the College of Fisheries and Aquaculture Technology (CFAT) at AASTMT is supervising three research projects supported by the General Fisheries Commission for the Mediterranean (GFCM) of the Food and Agriculture Organization of the United Nations. These research projects focus on assessing fish stocks of economically significant species, including NIS in the Egyptian Mediterranean, monitoring discards, bycatch, and vulnerable species.



Aquarium water recirculation, reuse and discharge

This internal policy sets guidelines for responsible water management in the Aquaculture Laboratory at the College of Fisheries and Aquaculture Technology, AASTMT. It aims to promote water conservation through recirculation and reuse, ensure appropriate aquarium water quality, and manage wastewater safely to prevent pollution and protect aquatic ecosystems. The policy supports AASTMT's commitment to Sustainable Development Goal 14 (Life Below Water) by minimizing harmful discharges into natural aquatic environments and encouraging environmentally responsible laboratory practices.



Standards and Guidelines for Discharge of Wastewater, Version 2 (reviewed 2025, AASTMT Abu Qir Campus, Alexandria)

In 2025 the SDGs Workforce Committee reviewed AASTMT's wastewater discharge guidelines. Version 2 specifies the Abu Qir wastewater and rainwater system: a 12-inch drainage line to a 12 m³ sump, two 10 hp EBARA submersible pumps discharging 60–70 m³ per hour with two 15 hp Siemens standby pumps, dual control panels to prevent overflow, and daily cleaning of the pump rooms by a contracted company. It sets a validation program (pump flow and valves checked monthly, control panels quarterly, discharge water quality tested monthly by laboratory analysis, and sump and pump room inspected twice a year), and requires compliance with Law No. 93 of 1962, Decree No. 44 of 2000 and Egyptian Code 102 (2010), so that no contaminated water reaches the sea, freshwater or groundwater.



"Every Drop Counts" Campaign in the Laboratories (24 October 2024, AASTMT campuses)

AASTMT launched the "Every Drop Counts" campaign in its teaching laboratories, with posters and awareness materials in every department. Faculty members reminded students during practical sessions to save water, report leaks and follow sustainable laboratory practice, which means nothing hazardous goes down the sink.



AASTMT attended the 82nd MEPC Meeting on Behalf of IAMU
The Arab Academy for Science, Technology, and Maritime Transport (AASTMT) actively participates in the International Association of Maritime Universities (IAMU). It represented the IAMU at the Marine Environmental Protection Committee (MEPC) during its 82nd session, held from September 30 to October 4, 2024, in London, UK. Senior Lecturer Mohamed Elbawab, a member of AASTMT's SDGs team for SDG14, was the IAMU's representative.

CFAT–AASTMT Students Periodically Conduct Coastal Water Quality Monitoring to Support Watershed Management and Marine Ecosystem Protection
The College of Fisheries and Aquaculture Technology (CFAT) at the Arab Academy for Science, Technology and Maritime Transport (AASTMT) was strengthening its commitment to coastal environmental protection through student field activities focused on collecting coastal water samples and assessing key water quality parameters along the Alexandria coastline. As part of the College's educational and environmental monitoring efforts, on 21 Dec. 2026, students participated in field sampling to collect water samples for laboratory analysis and evaluate key physical and chemical characteristics of the aquatic environment. These measurements included temperature, pH, salinity, dissolved oxygen, and nutrient concentrations, depending on the sampling objectives and available laboratory facilities. The collected samples allowed assessment of variations in coastal water quality, tracking environmental conditions over time, and identifying potential changes that may require further investigation.



COMMUNITY ENGAGEMENT

In the 2024-2025 academic year, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) prioritized impactful community engagement initiatives to address challenges related to SDG 14: Life Below Water. These efforts focused on raising awareness, fostering collaboration, and empowering local communities to contribute to marine conservation and sustainable development. Below are the key community-focused initiatives undertaken:

Community Awareness about Overfishing: Fishing is a Major Driver of Declines in Marine Wildlife Populations

On 26 December 2024, the College of Fisheries and Aquaculture Technology (CFAT) at AASTMT conducted a community awareness activity targeting local fishermen to promote sustainable fisheries management and raise awareness of fishing practices that threaten marine biodiversity and fish stocks.



Initiative update: Outreach Workshop with Abu-Qir Bay Fishermen on Antifouling Paints, Environmental Risks, and Alternative Solutions
CFAT organized a community awareness initiative targeting local fishermen in Abu Qir, Alexandria, to promote environmentally friendly antifouling paints as sustainable alternatives to conventional antifouling products. The awareness activities were delivered by CFAT students under the supervision of college academic staff.

College of Fisheries and Aquaculture Technology Students actively participated in the "By Fisher to Fisher" Program (Beach cleanup initiative)

On Saturday, 21 December 2024, students and staff members of the College of Fisheries and Aquaculture Technology (CFAT), Arab Academy for Science, Technology and Maritime Transport (AASTMT), participated in the "By Fisher to Fisher" program, under the broader "Green & Clean" campaign. The initiative was implemented under the auspices of the Egyptian Ministry of Environment and Banque du Caire, with supervision from Global Stars Company, and focused on environmental protection and supporting fishing communities.



Towards Clean Blue Oceans | Hand in Hand for a Sustainable Sea
The College of Fisheries and Aquaculture Technology – Arab Academy for Science, Technology and Maritime Transport (AASTMT) launched the "Towards Clean Blue Oceans" initiative on Saturday, August 8, 2026, bringing together 50 participants from college students, school students, and volunteers — working hand in hand to promote marine environmental awareness and cleaner beaches.

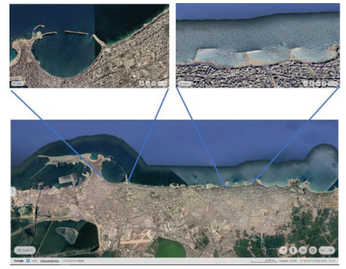


Interreg Cooperation Day 2026 | Beach Cleanup: Together for Cleaner Beaches and a More **Sustainable M**editerranean
As part of Interreg Cooperation Day 2026, the College of Fisheries and Aquaculture Technology (CFAT) at the Arab Academy for Science, Technology and Maritime Transport (AASTMT) participated in the beach cleanup activities held in Alexandria on Friday, 2 October 2026. The Anna Lindh Foundation organized the event, with numerous students, young people, volunteers, and representatives from partner institutions and organizations participating. Participating Organizations and initiatives



Initiative: "Existence of Harmful Algal Blooms along Alexandria Coast: A Mitigation Strategy".
Since 1998, the Alexandrian coast has undergone a series of engineering modifications. These changes have affected water quality, phytoplankton productivity and diversity, and the coast's topography. To prevent erosion and build new beaches, preventive wave breakers were constructed in 1998. As a result, shallow, somewhat large, semi-closed lagoons formed. These lagoons became an ideal habitat for algal blooms because of their shallow depth and partially stagnant waters. Around 2010, the corrective strategy was subsequently implemented to lessen the negative consequences of the earlier coastal alterations. Over these two periods, the phytoplankton standing crop and composition changed completely. Internal tourism suffered financial losses due to this bloom.

A major problem along the Alexandria shoreline is beach erosion. Accordingly, the coast underwent coastal engineering modifications to reduce erosion and establish new recreational beaches. These coastal modifications were carried out without a preliminary impact assessment and led to negative effects. Semi-closed artificial lagoons were established, and a green tide was formed for the first time along these lagoons due to their shallowness and increased nutrient concentrations. Corrective measures were needed to mitigate the negative effects. This study was carried out at the beginning of 2024.



In fulfillment of its role in serving the local community and in line with its Social Responsibility, the Faculty of Fisheries Technology and Aquaculture, represented by its Dean, Professor Dr. Hatem Hanafi Mahmoud, participated in an important Training Program for Fishermen at the New Fishing Port in Safaga
On 10 – 14 May 2026, as part of its commitment to community service and environmental responsibility, the College of Fisheries Technology and Aquaculture at the Arab Academy for Science, Technology and Maritime Transport (AASTMT) contributed to a specialized training program for local fishermen at the New Safaga Fishing Port. The program was organized by the Red Sea Lakes and Fisheries Development Authority in Hurghada and hosted at the Safaga Fishermen's Association. AASTMT was represented by Professor Dr. Hatem Hanafi Mahmoud, Dean of the College, who contributed to the educational and professional engagement with the local fishing community.

EVENTS

Throughout the 2023-2024 academic year, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) hosted and participated in a range of impactful events aligned with SDG 14: Life Below Water. These events were designed to raise awareness, foster collaboration, and drive actionable change in marine sustainability. Below is an overview of the key events and their outcomes:

Memorandum of Understanding between AASTMT and the World Fish Center (2022 – 2027).
During the fourth AASTMT Advisory Council for Industry on June 3, 2022, Professor Ismail Abdel Ghafar, the Academy's president, signed an MoU with the WorldFish Center, represented by Regional Director Dr. Ahmed Nasrallah. The five-year agreement (2023-2024 year is included) focuses on collaboration in aquaculture, fisheries management, and capacity building. Both organizations aim to advance sustainable fisheries and aquaculture practices in the region.



AASTMT College of Fisheries and Aquaculture Technology Signs Cooperation Agreement with MADE II to Enhance Practical Aquaculture Training (2023 – 2028)

The College of Fisheries and Aquaculture Technology (CFAT) at the Arab Academy for Science, Technology and Maritime Transport (AASTMT) signed a cooperation agreement on Sunday, June 4, 2023, with the Marine Aquaculture Development Project in Egypt (MADE II), affiliated with the Ministry of Agriculture and Land Reclamation.



UPCOMING GOALS

In the upcoming year, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) aims to build on its commitment to SDG 14: Life Below Water by advancing impactful projects, forging new partnerships, and expanding its educational and research initiatives. Our future goals include:

1. Expanding Marine Research

- Launching a Marine Biodiversity Monitoring Program to assess and protect critical marine habitats along Egypt's Mediterranean and Red Sea coasts.
- Establishing an Ocean Innovation Lab to foster interdisciplinary research on sustainable aquaculture, marine pollution mitigation, and ecosystem restoration.

2. Strengthening Educational Programs

- Introducing new certificate programs in Marine Conservation and Climate Resilience, designed to equip students and professionals with the skills needed to address pressing marine challenges.
- Enhancing experiential learning opportunities by expanding fieldwork and internships with local and international marine research organizations.

3. Community-Centered Initiatives

- Scaling up the "Save Our Shores" coastal clean-up campaign, aiming to remove at least 5 tons of marine debris in collaboration with local communities and NGOs.
- Launching the "Blue Futures" Initiative, which will provide workshops and funding opportunities for community-led projects focused on sustainable fisheries and marine protection.

4. Partnership Development

- Strengthening collaborations with global organizations such as UNESCO-IOC and WWF to align efforts with international marine sustainability standards.
- Establishing new partnerships with private sector stakeholders to develop eco-friendly technologies for aquaculture and waste reduction.

5. Innovative Technology Integration

- Developing a Marine Data Platform to collect, analyze, and share real-time data on marine ecosystems, providing critical insights for policymakers and researchers.
- Exploring the use of AI and satellite imaging for monitoring marine pollution and tracking biodiversity changes.

6. Policy and Advocacy Efforts

- Hosting an International Marine Sustainability Forum to bring together policymakers, scientists, and industry leaders to discuss solutions for marine resource management.
- Contributing to national and regional policies on marine conservation by providing scientific advice and research-based recommendations.

7. Measurable Impact Goals

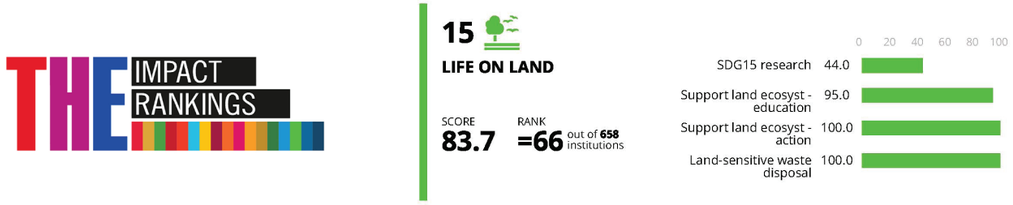
- Engage 1,000+ volunteers in marine conservation efforts.
- Remove at least 10 tons of marine waste from coastal areas.
- Publish 15+ research articles addressing marine sustainability challenges.
- With these initiatives, AASTMT is poised to further its impact on marine conservation and sustainable development, ensuring that the oceans and marine resources are preserved for future generations.

GOAL 15 - LIFE ON LAND

OUR AIM IN 2024-2025

As part of its commitment to the Sustainable Development Goals, AASTMT protects and extends the green spaces and habitats of its campuses, includes local biodiversity in campus planning, manages land, water and waste so that they do not degrade soils or ecosystems, and works with students, communities and national authorities on the land ecosystems we share. This report covers the academic year 2024–2025.

THE IMPACT RANKING SCORES 2023-2024



KEY MILESTONES IN 2024-2025

Regarding SDG 15: Life on Land, the Arab Academy for Science, Technology and Maritime Transport (AASTMT) cared for and extended the green areas of its campuses, built local plants and planting basins into its construction projects, joined a community mission to protect a desert protected area in Cairo, and helped protect land from open dumping by handing over 23 sanitary landfills across Egypt. In the THE Sustainability Impact Ratings 2026, AASTMT ranked =66th of 658 institutions for SDG 15: Life on Land, with a score of 83.7.

At Abu Qir, its main campus in Alexandria, about 62,000 m² of the 213,646 m² campus (around 30%) is planted vegetation: gardens, lawns, palm groves and tree-lined avenues that give shade and shelter to birds and insects. AASTMT raises plants for these green areas in its own planting nurseries, thirteen borehole wells irrigate the gardens, and 27.8% of the campus's water comes from non-potable sources, as reported in the AASTMT Environmental Sustainability Policy.

With its colleges and project partners, AASTMT taught school students, hotel staff, agriculture students, agri-industry staff and future planners how land, plants and soils can be used sustainably, and its students developed tools for water-saving irrigation and precision farming on desert soils.

POLICIES & GOVERNANCE

AASTMT's work on Life on Land rests on policies approved by the SDGs Workforce Committee and signed by the Dean of Scientific Research and Innovation. The Sustainability Office and the SDG 15 officer coordinate their implementation; the Environmental Sustainability Committee meets every quarter, and the SDGs Workforce Committee reviews progress every year.

AASTMT Environmental Sustainability Policy (Climate, Ocean and Land):
Created in January 2019 and reviewed in 2023, 2024 and October 2026 (Version 6), the policy commits AASTMT to maintain and extend the green areas and habitats of its campuses, protect threatened species, reduce the impact of alien species, and fight land degradation and desertification. Its Life on Land actions include protecting mature trees, favouring native and drought-adapted species, conserving soil through compost and drip irrigation, and planning every new building with local biodiversity in mind.

Species Policies:
The AASTMT Policy for Identifying, Monitoring and Protecting IUCN Red List and National Conservation List Species (Egypt) was created in August 2024, reviewed in 2025 (Version 2) and October 2026 (Version 3). Its priority species include the Critically Endangered Egyptian tortoise near the El Alamein campus, the Endangered steppe eagle and saker falcon on the migration flyway over Alexandria and Port Said, and the Endangered Egyptian vulture in Aswan. The AASTMT Policy for Reducing the Impact of Alien Species on Campus, approved in academic year 2024–2025 and reviewed in October 2026, sets prevention through inspected deliveries and an approved planting list, yearly plant surveys and the removal of newly found invasive species within 30 days. In the Aquaculture Research Center at Abu Qir, fish and vegetables are grown in closed hydroponic and aquaponic systems that reuse water and screen any water released, so that no live organisms reach natural waters.

AASTMT Biodiversity Action Plan and Campus Development Plan 2025–2030:
Originally prepared in 2025 and last revised on 20 November 2026, the plan turns these commitments into ten action areas, a biodiversity review for every qualifying campus project, a development plan for each campus and annual indicators.

CAMPUS ECOSYSTEMS & PLANNING

Jan 2025 — New planting at the El Alamein Campus (Matrouh)
AASTMT extended the green areas of its El Alamein campus on Egypt's North Coast: palms, shrubs and ornamental plants were planted, planting beds were improved and walkways were landscaped. The selection favoured drought-tolerant plants with irrigation suited to each species, and agricultural waste was recycled into compost for the campus lawns.

2024/2025 — The Think Tank: Planting inside and around a repurposed Building (Abu Qir)
AASTMT repurposed the hall attached to its Presidency building at Abu Qir as the Think Tank, a gathering space for students, reusing part of an existing building rather than building on new land. Planting basins were designed into the surrounding site and inside the building, along the main corridors and around the skylit staircase patio, and a shaded entrance canopy links the building to the green areas around it.



AASTMT construction standards, November 2025, pp. 9–11

Nov 2025 — Construction Standards for Every Campus
The Construction Administration issued AASTMT's standards for constructing, operating and maintaining buildings. They set out many planting basins across each project site and the use of all vacant land around buildings for trees, shrubs, flower beds and local plants, with perforated-pipe irrigation instead of flood irrigation with drinking water, rainwater led into planting basins and the soil, and LED lighting to reduce night glare. From November 2026, the Biodiversity Action Plan adds a biodiversity review for every qualifying project, with a Biodiversity Statement before tender and no approval for a net loss of biodiversity.

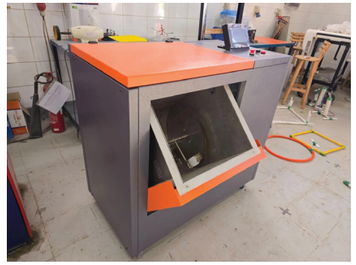
AASTMT Engineering Administrations' Approach to Constructing, Operating and Maintaining Buildings, November 2025

2022–2025 — Keeping the Abu Qir Campus Free of Net Land Degradation
The AASTMT Campus Land Sustainability Change Detection Report compares satellite images of the Abu Qir campus from 2022 and 2025. It finds that vegetation cover was stable and barren land did not expand, with new buildings placed in previously disturbed or planned development zones, and it puts net land degradation at 0%.

AASTMT Campus Land Sustainability Change Detection Report

Returning Organic Matter to Campus Soils (Abu Qir)
Under the Consumption and Recycling Policy, food waste from campus kitchens is weighed and fed to a composter unit that produces organic fertiliser for the green areas, and a closed vermicomposting unit, photographed in 2026, uses compost worms to turn organic waste into vermicompost. Facilities records for July 2025–June 2026, after the reporting

period, report 35 tonnes of agricultural waste recycled at Abu Qir, listed as 20 tonnes of organic soil conditioner and 15 tonnes of compost.



EDUCATION & OUTREACH

14–19 Sep 2024 — Waste-Separation Training for Alexandria Hotels (TouMaLi)
Under the TouMaLi project, in which AASTMT is the Egyptian partner, trainers from BlackForest Solutions working with AASTMT trained housekeeping, maintenance and management staff of 23 Alexandria hotels to separate waste at source, reducing the litter that reaches the beaches and coastal land on which tourism depends.

AASTMT news, TouMaLi hotel training, September 2024

Oct 2024–Jul 2025 — Sustainable Land Management for agriculture
Students learned how land is farmed sustainably in Egypt's drylands through visits to a medicinal plant farm in El Dabaa (October 2024), Dina Farms on reclaimed desert land (5 November 2024) and Lamar Farm in Nubaria (30 April 2025). In November 2024 AASTMT agreed with MAFI for Agricultural Produce Industries to train its staff in artificial intelligence for agriculture, and on 7 April 2025 the College of Fisheries and Aquaculture Technology trained students and staff of the Faculty of Agriculture, Minia University, in water-saving fish farming that can be combined with crop production. AASTMT students built a solar-powered robot that plants, irrigates and harvests on desert and clay soils (July 2025) and a smart water treatment and sustainable irrigation system that won the runner-up award in the WePower track of IEEE YESIST12 Prelim 2025 (May 2025).



1–16 Feb 2025 — TOURITAGE Study Programme on Heritage and Tourism Land (El Alamein)
The Department of Architecture at the El Alamein campus hosted "Reviving Roots", an intensive programme with open registration within the Erasmus+ TOURITAGE project coordinated by the University of Palermo. Using Leucaspis Marina and the El Alamein War Cemeteries as case studies, participants studied heritage and tourism planning, visitor management, landscape heritage and sustainable tourism products for New Alamein.

AASTMT Research, TOURITAGE

23 Jul 2025 — Medicinal Plants for Alexandria's School Students (Abu Qir)
During the third edition of the College of Pharmacy Summer School for high-school students from across Alexandria, a session on medicinal plants as a source of new medicines was followed by plant identification under the microscope in the Pharmacognosy and Medicinal Plants Laboratory and a visit to the college greenhouse.



AASTMT news, Pharmacy Summer School, July 2025

COMMUNITY ENGAGEMENT

Nov 2024 — Climb2Change Egypt: Protecting Wadi Degla Protected Area (Cairo)
AASTMT staff and students of the College of Language and Media – Heliopolis joined Climb2Change Egypt in Wadi Degla Protected Area, a protected desert ecosystem in Cairo, with Mashreq Bank under the patronage of the Ministry of Environment, Nahdet Misr, and volunteers from schools, universities and the local community. Participants climbed the mountains of the protected area and collected, sorted and safely disposed of waste. Mashreq reported totals for the whole mission and all its participants: 2.182 tonnes of general waste and 120 tonnes of construction waste removed, 581 volunteer hours from schools, universities and community members, and 72 local entities benefiting.



10 Oct 2024 — Cleaner Beaches for Alexandria
Under the auspices of Alexandria Governorate and with the German Ministry of the Environment, AASTMT and Nahdet Misr began trial operation of two machines that sieve and clean the sand of Alexandria's public and hotel beaches, as part of a joint project against marine litter and single-use plastics on coastal land shared by residents and visitors.

19 May 2025 — Cooperation on Egypt's Lake Ecosystems
The AASTMT President and the Executive Director of the General Authority for the Protection and Development of Lakes and Fish Resources signed a cooperation protocol with the College of Fisheries and Aquaculture Technology covering the exchange of expertise and resources in fisheries, aquaculture and student field training.

PROTECTING LAND FROM POLLUTION & WASTE

Oct–Nov 2024 — 23 Sanitary Landfills to End Open Dumping
Between 2019 and 2023, AASTMT worked with Egypt's ministries to build the infrastructure of the new national solid waste management system and to train the staff who run it. In October and November2024 the Academy handed over 23 sanitary landfills in 16 governorates, including new landfill cells in Damietta (23 October 2024) and Sohag (16 November 2024), replacing open dumps that contaminate soil and groundwater.

Hazardous Waste kept out of Soil and Water
Laboratory and clinic waste is segregated at source: liquid chemical waste is collected in designated containers and neutralised where needed, biological waste is sterilised by autoclaving, and broken glass is kept separately, as the College of Pharmacy showed in its laboratories in November 2024. On the Abu Qir campus, hazardous waste is collected twice a week by Nahdet Misr, a licensed company, under staff supervision, and taken to the Alexandria Governorate hazardous waste facility at Nasreya. Since August 2024, the El Alamein campus has used colour-coded bins that keep hazardous and general waste apart.





Wastewater and Plastics
The AASTMT Standards and Guidelines for Discharge of Wastewater (created August 2023; Version 3 reviewed October 2026) set discharge limits under Egyptian law. At Abu Qir, separate sealed networks for sewage, rainwater and greywater carry wastewater through the campus pump station, where flow is recorded every month, to the public sewer; at El Alamein, medical and laboratory wastewater from the AASTMT Alamein Hospital is treated on site and reused for irrigation, toilet flushing and cleaning. Under the Consumption and Recycling Policy, all campus food outlets use compostable catering supplies instead of single-use plastics, plastic bottled water is no longer sold on campus, and recycling stations are provided across the campuses.

UPCOMING GOALS

In support of SDG 15: Life on Land, AASTMT's Biodiversity Action Plan 2025–2030 sets out actions and milestones to strengthen biodiversity conservation across its eight campuses in Egypt through 2030. Baseline biodiversity surveys at Abu Qir and El Alamein will be completed by June 2027, and a species register for each campus will be established by December 2027. From 2027, each campus will undergo at least one biodiversity survey annually, with additional seasonal bird counts conducted twice a year at Abu Qir and El Alamein.

New planting will include at least 70% native and drought-adapted species; newly found invasive species will be removed within 30 days, and creeping oxeye and Mexican petunia, recorded in Abu Qir flower beds in the 2026 baseline, will be replaced with native plants by the end of 2028. Every qualifying project will pass a biodiversity review, with a Biodiversity Statement template issued by June 2027, and a GIS habitat map of the Abu Qir campus will be prepared by December 2027.

AASTMT also aims to raise the non-potable share of campus water from 27.8% to 35% by 2028, to document at least one collaboration a year with local communities on land ecosystems near its campuses, and to publish its first annual biodiversity report, with yearly species and alien species summaries, by December 2027.

GOAL 16 – PEACE, JUSTICE & STRONG INSTITUTIONS

OUR AIM IN 2024-2025

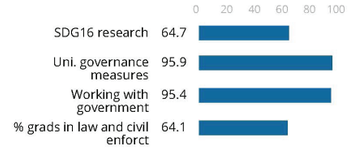
AASTMT is dedicated to building an accountable, transparent, and inclusive institution across all its campuses. AASTMT recognizes that strong, fair institutions must actively protect vulnerable populations and guarantee equitable access to education, civic participation, and opportunity.

THE IMPACT RANKING SCORES 2023-2024

THE IMPACT RANKINGS

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

SCORE **80.0** RANK **=44** out of **914** institutions



KEY MILESTONES IN 2024-2025

AASTMT expanding educational scholarships and training programs to refugees' students to integrate them into higher education and to the labor market. Also, AASTMT reinforced internal accountability by publishing its' audited financial data.

AASTMT College of Engineering and Technology Advisory Board Meeting
The AASTMT College of Engineering and Technology held its 30th Advisory Board Meeting on December 29, 2024, at the AbuKir Campus in Alexandria, with the involvement of different AASTMT representatives they discussed the theme "Technology and Artificial Intelligence: Challenges and Transformations in the Engineering Labor Market."



Marine Hotel Center - Student Affairs (Student Union Regulations)
Marine Hotel Center Student Union at the AASTMT Alexandria Campus.

Announcement of the 2025 Student Union Election Results Alamein Branch
AASTMT El Alamein Branch Student Union following their competitive campaign cycle. the union aims to strengthen campus bonds, develop future leaders, and promote freedom expression.

Meeting of the Academy President and the Student Union at Sheraton Campus
In line with AASTMT's ongoing commitment to offer absolute administrative support and maintain constant communication channels with its student body and the internal stakeholders, the Academy President met with the Sheraton Campus Student Union Council.



AASTMT College of Medicine Hosts Med-Tribe Workshop on Soft Skills
AASTMT College of Medicine at the El Alamein Campus hosted a specialized Med-Tribe workshop to develop students' interpersonal and communication skills.



Janaklis Language School Seminar
As AASTMT raising its role in civic management, AASTMT's CITL hosted a Janaklis Language School, for secondary students from the Janaklis Language School of Excellence to highlight forward-looking higher education paths. The event introduced secondary students to logistics degrees. Presenters detailed academic tracks and international internships.



Akhbar El-Youm Higher" Education Exhibition "UniEgypt 9"
AASTMT participated in the ninth edition of the "Akhbar El-Youm" Higher Education Exhibition ("UniEgypt 9"), Organized under the patronage of Egyptian Prime Minister the event was officially inaugurated by Minister of Higher Education and Scientific Research.



World Health Organization Conference
Smart Village campus of AASTMT hosted the World Health Organization Conference to bring together global leaders, medical experts, and policymakers. The collaborative event featured thought-provoking sessions and workshops designed to share specialized knowledge and develop innovative strategies for improving healthcare systems worldwide. By focusing on fundamental rights and sustainable medical solutions and strengthening international cooperation, this conference served as a vital catalyst for advancing global health initiatives from within the academy's tech-driven hub.



Egypt's First Schools Artificial Intelligence Competition
AASTMT's Smart Village campus hosted NextEra's AI Hackathon closing ceremony. Over 500 children from 100 private and international schools across Egypt joined the competition.



1st Future International Conference on AI and Cybersecurity (FICAC25)

The 1st Future International Conference on AI and Cybersecurity (FICAC25), organized by Future University in Egypt's Faculty of Computers and Information Technology.



Workshop on "Fake News and Social Media" with CLC Students

College of Language and Communication (CLC) at AASTMT's Smart Village Campus hosted a specialized workshop titled "Fake News and Social Media.



AASTMT Faculty of Law Students Complete Training at the Administrative Prosecution Authority
In April 2024, students from the Faculty of Law at AASTMT participated in a specialized training program at the Administrative Prosecution Authority headquarters the training focused on fighting corruption and bridging transparency with academic instruction with practical legal training



AASTMT Faculty Members win Multiple Best Research Prizes at LANACOM 2025
Faculty members from the Language and Translation Department at AASTMT were honored with multiple Best Research Prizes during the LANACOM 2025 conference at the Miami campus in which

each researcher has free speech in the conference.



AASTMT Students published their Distinctive Project Paper

ASTMT celebrated a research breakthrough by Smart Village Computing and Information Technology students who published their "AI-based Image Forgery Detection System" participatory research paper in the journal *Natural Science*.

First Annual Arab Forum on Artificial Intelligence

The forum brought together regional officials and experts—including Egypt's Minister of Communications and Information Technology, to foster regional AI cooperation, boost tech investments, and align local innovations with Arab societal values.



League of Arab States Meeting

AASTMT President met with Ambassador Abdulaziz bin Abdullah Al-Matar, the Acting Permanent Representative of Saudi Arabia to the League of Arab States. The two sides discussed kind of AASTMT engagement and cooperative strategies to enhance workforce competencies, share expertise, and address joint-interest topics under coordinated Arab action.



Egyptian State Lawsuits Authority" Delegation At AASTMT

AASTMT hosted Counsel Dr. Hussein Madkour, Head of the Egyptian State Lawsuits Authority (ESLA), at its AbuKir Campus. The two sides discussed joint legal training, specialized maritime, commercial, and technological law research, and toured campus facilities like the Integrated Simulator Complex.



AASTMT President - Ministry of Trade and Industry Delegation "Meeting"

AASTMT President met with a senior delegation from the Egyptian Ministry of Trade and Industry at the AASTMT Heliopolis Campus.



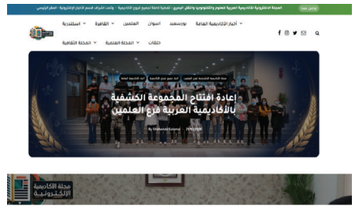
Cross-Border Logistics Zone Study

The College of International Transport



AASTMT E magazine – The First AASTMT Electronic Magazine

The Magazine is managed by the Electronic News Department at the main campus and serves as a centralized hub to publish university news with freedom expression, scientific breakthroughs, cultural stories, and event coverage across all campus branches (including Alexandria, Cairo, Alamein, Aswan, and Port Said).



UPCOMING GOALS

In the Future AASTMT will:

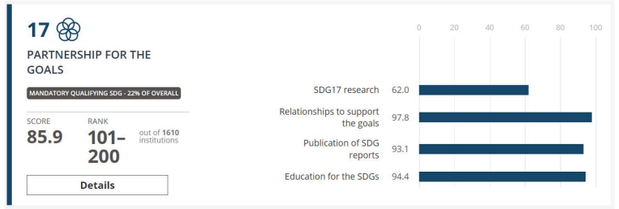
- Advance Peacebuilding and Conflict Resolution Education by Integrating mediation, negotiation, and cross-cultural dialogue workshops into general student curricula to foster a culture of peaceful conflict resolution.
- Enhance Anti-Corruption and Ethical Standard by Conducting regular ethics training and compliance reviews for faculty, staff, and student organizations to uphold accountability and integrity.
- Increase Students' Formal Representation in AASTMT by Increasing student participation in university committees and by any other suitable methods.

GOAL 17 - PARTNERSHIPS FOR THE GOALS

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



KEY MILESTONES IN 2024-2025

During 2024–2025, AASTMT strengthened partnerships with regional governments, international organizations, and European institutions to advance sustainability, green technologies, and digital transformation. Cross-sector cooperation focused on marine environmental protection, climate resilience, clean energy supply chains, and artificial intelligence. Through Erasmus+ and international research initiatives, AASTMT integrated sustainability and modern competencies into engineering, architecture, and maritime curricula. Community engagement expanded through vocational training for refugees, support for vulnerable groups, and medical and development initiatives. AASTMT also reinforced its regional and global leadership by hosting international ministerial sessions, contributing to cross-border disaster risk reduction and waste management frameworks, and strengthening its role as a sustainable development hub 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 - 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.



Strengthening Arab Cooperation AASTMT Presents Logistics Zone Study for 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.



ONETWORK 0 COMMENTS

League of Arab States Presents the First ıework Strategy for Solid Waste Management ıg the "Chemicals Team" Meeting with the icipation of RAED

Environment Minister probes environmental cooperation with AASTMT

Environment Minister Dr. Yasmine Fouad and AASTMT President Prof. Dr. Ismail Abdel Ghaffar discussed a climate cooperation roadmap leveraging faculty and student innovations, including capacity building, ministerial climate units, AASTMT's Climate Change Information Center, and the "Together to Reduce Carbon" mobile app in collaboration with the Ministry of Communications.



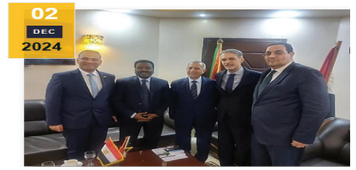
First Annual Artificial Intelligence Forum hosted by AASTMT

AASTMT hosted the First Annual Arab Forum on Artificial Intelligence in New Alamein City under the patronage and presence of Dr. Ahmed Aboul Gheit, Secretary-General of the League of Arab States, to promote regional technological collaboration. The forum resulted in a five-party agreement involving the League of Arab States, AASTMT, Spain's INCIBE, the University of Salamanca, and the Caribbean Parliamentary Union.



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.

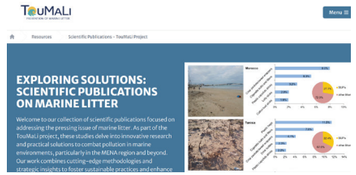


AASTMT hosts 73rd Executive Office and 37th Session of the Council of Arab Transport Ministers

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.



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.



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.



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.



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.

Project: Knowledge Exchange in Aquatic Animals Medicine and Ecosystem Health in the Mediterranean and sub-Saharan Regions (AquaVET)
Since December 2024, AASTMT has joined the Erasmus+ AquaVET project with Italian and Croatian partners to modernize aquatic veterinary and aquaculture education in Egypt and Nigeria, reduce fish mortality, and enhance food security.

AASTMT participation in the ongoing project Pro-GREEN-LABs
AASTMT participates in the Erasmus+-funded Pro-GREEN-LABs project (2024–2027), integrating green competencies into architecture and urban design education through hybrid living labs equipped with 3D printers and energy loggers to promote experimental learning and climate resilience across Europe and the South Mediterranean.

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.



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.



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.

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.

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.



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.

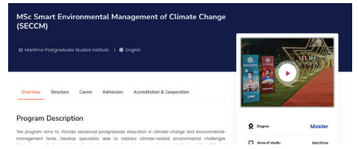


Activities of Electrical Maintenance Training Courses for Factories at the Industry Service Complex Laboratories, in Cooperation with Caritas Egypt, Funded by Caritas Austria
AASTMT's Industry Service Complex, in collaboration with Caritas Egypt and with funding from Caritas Austria, provided practical electrical maintenance training for refugees, asylum seekers, and migrant youth. The courses developed industrial technical skills, supported employability, and expanded access to vocational education.



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.

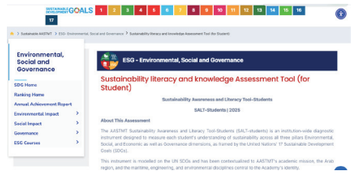
M.Sc. in Sustainable Management of Fisheries and Aquaculture
AASTMT offers an M.Sc. in Sustainable Management of Fisheries and Aquaculture, developed through the EU-funded Erasmus+ FishAqu project. The programme focuses on sustainable fisheries management, aquatic resource conservation, stock assessment,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



Sustainability Integration and Literacy Assessment Framework
AASTMT integrates and assesses sustainability knowledge and competencies across academic disciplines through its Sustainability Literacy Assessment Framework (SLAF), curriculum mapping, and alignment of learning outcomes with the UN Sustainable Development Goals (SDGs).

Sustainability Literacy Assessment (SALT-Students)
AASTMT uses the Sustainability Awareness and Literacy Tool (SALT-Students) to assess students' knowledge

of environmental, social, economic, and governance aspects of sustainability. All students must complete the assessment at least once during their studies. In October–November 2025, 9,531 students participated, including 7,083 undergraduates and 2,448 postgraduates. The overall average was 57.1%, with undergraduate and postgraduate averages of 54% and 66.3%, respectively. The findings help AASTMT improve sustainability education and academic planning.



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.

UPCOMING GOALS

Building on its 2024–2025 achievements, AASTMT aims to strengthen its contribution to SDG 17 by expanding partnerships with governments, international organisations, academia, and industry. Priorities include advancing collaborative research on climate change, marine pollution, renewable energy, green shipping, and sustainable resource management; integrating sustainability into curricula, practical training, and international educational cooperation; and improving sustainability literacy assessments and curriculum mapping to strengthen learning outcomes. AASTMT will also expand vocational training, educational opportunities, and capacity building for refugees and underserved communities while promoting knowledge exchange, green and digital innovation, and sustainable development at local, regional, and international levels.

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

METHODOLOGY

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) has continued to weave the **United Nations Sustainable Development Goals (SDGs)** into every layer of its academic, operational, and community framework. Sustainability today stands as one of the Academy's defining values, shaping learning, research, and institutional development alike. Each program is evaluated through measurable outcomes, ensuring that progress toward the SDGs is both intentional and verifiable.

CURRICULUM MAPPING AND SUSTAINABILITY ASSESSMENT

AASTMT has designed and regularly refined detailed **SDG mapping matrices** that link academic content and course objectives to specific goals. These mappings, now integrated into the majority of colleges, help track how teaching and research contribute to sustainable development priorities. To deepen this alignment, the Academy introduced a **Sustainability Literacy and Competency Assessment Tool**—a framework that gauges students' ability to connect sustainability concepts with practical, real-world applications. The findings guide departments in updating course design and content so that sustainability remains a living and evolving theme across disciplines.

INSTITUTIONAL APPLICATION AND CAPACITY BUILDING

An initiative that began as a small-scale pilot has now matured into a university-wide practice. Each college applies sustainability indicators within its course review and accreditation systems. Cross-disciplinary cooperation between the **Colleges of Engineering and Technology, International Transport and Logistics, Computing and Information Technology,** and **Maritime Transport and Technology** has strengthened teaching and research in areas such as **energy efficiency, digital transformation, and low-carbon mobility**.

MONITORING, DATA, AND CONTINUOUS IMPROVEMENT

To ensure progress is transparent and data-driven, AASTMT established a unified **Sustainability Data Framework** that gathers and analyzes information on **energy performance, research activity, and SDG-linked outcomes**. This process supports periodic reviews, aligning the Academy's internal metrics with international benchmarks such as the **Times Higher Education Impact Rankings** and the **QS Sustainability Index**. Through this evidence-based approach, the Academy continually evaluates its environmental and social performance while identifying new opportunities for improvement.

FUTURE DIRECTION

AASTMT remains dedicated to deepening its sustainability integration through **innovation and accountability**. Upcoming priorities include broadening sustainability literacy initiatives to postgraduate programs, expanding collaborative research across campuses, and embedding **carbon management and climate-impact tracking** into academic evaluation processes. These ongoing developments reinforce AASTMT's commitment to global sustainability leadership, combining education, research, and institutional responsibility in pursuit of lasting impact.

ACKNOWLEDGMENT

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) extends its profound appreciation to every individual and partner whose dedication has contributed to the progress reflected in this report. Each effort—whether in research, teaching, community engagement, or administration—has strengthened AASTMT's collective pursuit of sustainability and excellence.

Special recognition is owed to **H.E. Prof. Dr. Ismail Abdel Ghafar Ismail Farag**, President of AASTMT, whose forward-looking leadership continues to inspire innovation, collaboration, and responsible growth across all campuses. His vision has guided the Academy in embedding the **United Nations Sustainable Development Goals (SDGs)** within its educational mission and institutional strategy.

AASTMT also acknowledges the unwavering commitment of its faculty, staff, and students, whose work transforms plans into measurable progress. Their creativity and determination continue to shape new pathways for research, capacity building, and societal impact. Equally, our appreciation extends to our national and international partners for their collaboration in advancing sustainable solutions and regional development.

The achievements presented here stand as a testament to shared purpose and enduring cooperation. With gratitude and pride, AASTMT looks ahead to the next chapter of this journey—deepening its role as a driver of knowledge, innovation, and sustainable transformation for generations to come.

WHAT'S NEXT FOR AASTMT?

As AASTMT moves forward, its sustainability journey is entering a stage of deeper integration and measurable transformation. The Academy's focus is shifting from building awareness to achieving tangible, evidence-based outcomes that strengthen its academic, environmental, and social impact.

Deepening Academic Integration
AASTMT is enhancing the way sustainability is embedded within teaching and learning. New interdisciplinary pathways are being developed to ensure that students across all disciplines gain the skills and mindset needed to address real-world challenges. This includes expanding experiential learning, sustainability design projects, and digital innovation within the academic framework.

Research and Innovation for Impact
The Academy is directing greater attention to applied research that translates directly into societal benefit. Priority is being given to research in **renewable energy**, **smart mobility**, and **climate resilience**, with outcomes that contribute to national and global sustainability agendas. Enhanced collaboration between faculty, students, and industry partners ensures that innovation remains aligned with community needs and environmental priorities.

Sustainable Operations and Resource Management
AASTMT continues to strengthen sustainability across its operations. Upgraded **energy systems**, **water conservation mechanisms**, and **smart campus management** are being implemented to reduce environmental impact and optimize resource use. The introduction of carbon tracking and data-driven monitoring reflects a long-term commitment to institutional efficiency and environmental accountability.

Social Engagement and Empowerment
Building on successful outreach programs, the Academy is expanding its engagement with local and regional communities. New initiatives are being developed to promote **youth innovation**, **social entrepreneurship**, and **inclusive access to education and technology**. Through these programs, AASTMT aims to create lasting partnerships that empower individuals and support resilient, knowledge-based communities.

Leadership and Institutional Culture
AASTMT is evolving toward a more collaborative and data-informed leadership model. Sustainability is now being integrated into decision-making processes across departments, ensuring that every strategic action—academic, administrative, or infrastructural—contributes to the SDG framework. This holistic approach strengthens institutional coherence and reinforces a culture of accountability and shared purpose.

Carbon Management and Sustainable Operations
AASTMT is intensifying its actions to monitor and minimize its environmental footprint. A comprehensive **carbon management framework** is being implemented to track emissions across all campuses, covering energy use, transportation, and waste. Insights from this system will guide the Academy's long-term goal of achieving **carbon neutrality**, supported by renewable energy expansion, green building practices, and smart campus operations.

AASTMT SDGs **MANAGEMENT TEAM**

YASSER GABER DESSOUKY, Dean of Scientific Research and Innovation, Alexandria.
RANIA RAGEH, Head of Research Data Science and Academic Ranking, AbuKir.
MOHAMED YOUSSEF, Head of Scientific Projects Management Department, Deanery of Scientific Research & Innovation, AbuKir.

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IMAN EID, Head of Websites Design Department, AbuKir.
DINA MOSTAFA, Data Entry Specialist.
SALMA MOSTAFA, Data Entry Specialist.

MULTIMEDIA & GRAPHIC DESIGN

YARA EL RAYESS, Senior Graphic Designer.



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Assistant Professor in Marketing at College of Management Miami Campus.
MOHAMED ABDELHAMID ELHUSSIENY,
Third Maritime Lecturer, College of Maritime Transport and Technology (CMTT).
MONICA FAYEZ,
Assistant Professor at Arab Academy, College of Management, Marketing Major

SDG 3 : SALMA ELMALLAH,
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DINA MAHDY,
Lecturer in Pharmaceutics and Head of the Quality Assurance Unit at the Faculty of Pharmacy, Alamein Branch.

SDG 4 : FAHIMA MAGHRABY,
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HEBA SHAABAN,
Professor of Wireless Communications, College of Engineering and Technology, AbuKir Campus.

SDG 5 : SALLY MAHER NASSAR,
Assistant Professor in College of Language and Communication, Smart Village Campus, Head of Departments, Arab Academy International Study Centre, Smart.
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