

Arab Academy for Science, Technology & Maritime Transport



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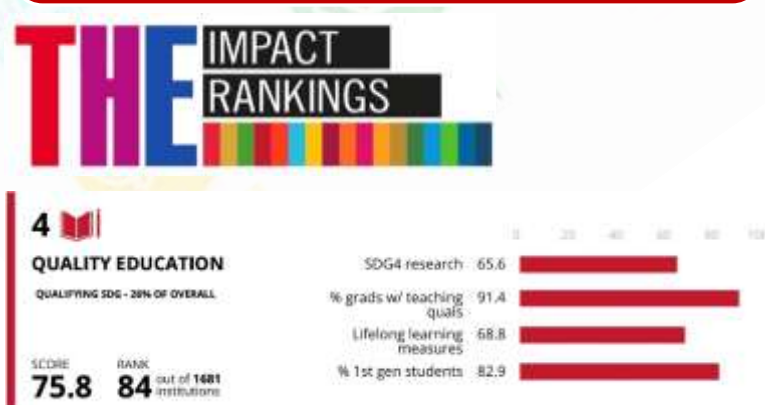
Report 2022 / 2023

SDG 4

Our Aim in 2022 -2023

- Ensure that all boys and girls have access to quality early childhood development, care, and pre-primary education, ensuring that they are ready for primary education.
- Ensure that all girls and boys complete free, equitable, and quality primary and secondary education leading to relevant and effective learning outcomes.
- Encourage equal access for all women and men to affordable and quality technical, vocational, and tertiary education, including university.
- Ensure that all youth and a substantial proportion of adults, both men and women, achieve literacy and numeracy.
- Build and upgrade education facilities that are child, disability, and gender-sensitive and provide safe, non-violent, inclusive, and effective learning environments for all.
- Substantially Increase the Number of Scholarships to increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs, and entrepreneurship.
- Enhance Global Citizenship Education to ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship, and appreciation of cultural diversity and of culture's contribution to sustainable development.

THE Impact Ranking Scores 2021-2022



SDG 4

QUALITY EDUCATION

4 QUALITY EDUCATION

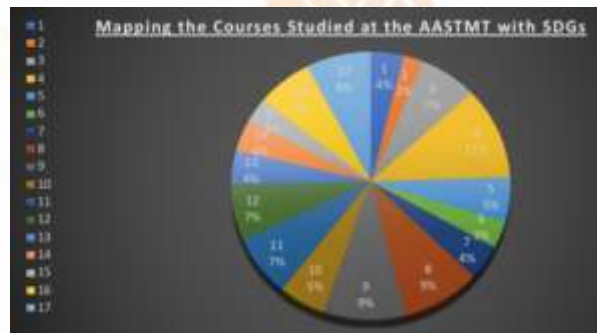


Key Milestones in 2022-2023

Teaching

Mapping the Courses Studied at the AASTMT with SDGs:

AASTMT has taken significant steps to align its curriculum with the Sustainable Development Goals (SDGs), initiating a comprehensive evaluation that revealed varying levels of alignment across different goals, as depicted in the accompanying chart. While the curriculum broadly addresses most SDGs, areas such as SDG1, SDG2, SDG6, SDG7, SDG13, SDG14, and SDG15 have been identified as requiring enhanced integration. Building on this, the initiative has already been expanded during the current term to include more colleges, marking a pivotal step toward a more cohesive and comprehensive approach. This effort reflects AASTMT's commitment to embedding sustainability across all academic disciplines and levels. To further this progress, plans are in place to refine the evaluation process for greater accuracy and to generalize its application, ensuring that the alignment with SDGs is systematically integrated not only at the university level but also at the college and department levels, fostering a holistic adoption of sustainability principles across the institution.



Toward a Green and Sustainable Future - 2023 School Initiative

“Toward a Green and Sustainable Future” is an initiative that involves a visit by teachers and students to the Arab Academy for Science, Technology & Maritime Transport (AASTMT) at the Abu Kir campus. This visit aims to raise awareness about the United Nations’ Sustainable Development Goals (SDGs). The program included two professional talks, a laboratory tour, and a visit to the planetarium, during which participants engaged in discussions focused on strategies for minimizing energy consumption.



Global Finale of IEEE-YESIST12-2023

The global finale of IEEE YESIST12 2023 took place on September 2nd and 3rd, 2023, at the Arab Academy for Science, Technology & Maritime Transport (AASTMT) in Alexandria, Egypt. This event is part of an international initiative aimed at promoting social responsibility and ethical practices among young engineers through innovative projects that address humanitarian and social issues. The finale was conducted in a hybrid format, allowing participants to attend either physically or virtually. Participants included students and young professionals showcased their innovative ideas, contributing to the overall goal of fostering service-oriented engineering practices with more than 450 participants from more than 20 countries.



Community Engagement

A Training Camp with The Chinese Expert Richard Ping (EOI 2022)

A training camp was organized for students participating in the Egyptian Olympiad in Informatics, featuring Chinese expert Richard Ping. He is a lecturer at an American university and has a proven track record of training students from various countries who have achieved gold medals in the International Olympiad in Informatics. Around 50 thirty participants attended the event.



Future Sustainable Technology Day and Workshop with Certificate

Participants had the opportunity to engage in interactive sessions designed to inspire innovative thinking and foster a deeper understanding of sustainable practices. The workshop aimed to equip both teachers and students with the knowledge and skills necessary to address environmental challenges through technology. Attendees also participated in hands-on activities, encouraging collaborative problem-solving and creative solutions. This immersive experience was designed not only to educate but also to ignite passion and curiosity in the fields of science and technology, empowering the next generation of innovators and leaders. The event had 40 students and 3 teachers.



The Egyptian Programming Competition for University Youth in Cooperation (ECPC) 2023

The Egyptian Programming Competition for University Youth (ECPC) 2023, in collaboration with the Ministry of Communications and Information Technology (MCIT) and supported by the Innovators and Geniuses Fund of the Ministry of Higher Education and Scientific Research, concluded at the Arab Academy in Alexandria. The 2023 edition of the competition saw participation from 96 colleges and institutes within the engineering and computer sectors, as well as various schools across Egypt. Over the course of two weeks, participants honed their skills in the Software and IT sector—an essential driver of economic development—aiming to establish their entrepreneurial ventures and shape the future of industry. The event was honored by the presence of Prof. Bill Poucher, President of the International ICPC Foundation for Programming Competitions for University Students.



Robocop Cup Egypt 2023

Founded in 1997, this initiative aims to create a robot soccer team that can defeat the human FIFA World Cup champion by 2050. RoboCup has established various soccer platforms for robotics research, including RoboCupJunior, which focuses on engaging primary and secondary students in educational robotic events. The Egypt Robotics Robocop Cup 2023, hosted by the Arab Academy for Science, Technology and Maritime Transport (AASTMT) and supported by the National Telecom Regulatory Authority (NTRA), involved 830 students. The competition included two categories: the Junior School Students Competition (February 14-17) and the University Students Competition @Home (February 10-17).



Egypt Rally Startup Competition 2023

The Egypt Rally Startup Competition is a comprehensive fundraising program designed specifically for Egyptian startups seeking to scale their businesses. Out of more than 1,800 startup ideas submitted, 35 finalists were chosen to compete. Each finalist was allotted three minutes to present their pitch, followed by three minutes for questions and answers to persuade the judges.



Prelim Stage of IEEE-YESIST12-2023

The preliminary stage of the 2023 IEEE-YESIST12 challenge is now underway, providing a global platform to showcase your innovative projects and gain recognition within an international community. This initiative serves as an opportunity for participants to highlight their valuable contributions. IEEE-YESIST12 is structured as a two-tier global competition featuring five distinct tracks across two phases. The preliminary stage, organized by the Mu Beta chapter, was hosted by the College of Engineering and Technology at the Arab Academy for Science, Technology & Maritime Transport in Abu Kir, scheduled for July 16-17, 2023. Finalists from each track subsequently competed in the Global Finale, which was held in a hybrid format in Egypt in September 2023. The competition encompasses five tracks catering to various categories, including a special track for school students known as the Junior Einstein track.



Events

The League of Arab States Youth "Summer Camp" at AASTMT

The Arab Academy for Science, Technology, and Maritime Transport (AASTMT) hosted a summer camp for the General Secretariat of the League of Arab States' youth. Held from September 15-18, 2022, the event featured a visit to AASTMT's educational facilities, seminars on artificial intelligence in the Arab region, and a lecture on supporting joint Arab action.



The Satellites and Geographical Survey Information Systems Workshop at AASTMT Heliopolis Campus College of Engineering and Technology

The workshop was organized by AASTMT's Heliopolis Campus, focusing on satellites and geographical survey information systems. The closing event featured key figures, including AASTMT President and representatives from the National Authority for Remote Sensing and Space Sciences. Students participated in practical training, launching educational satellites (CANSAT), and successfully receiving data with expert guidance.



2nd Bioinformatics and Computational Biology Workshop

AASTMT's Cairo College of Computing and Information Technology hosted its second workshop on Bioinformatics and Computational Biology on October 15-16, 2022. The event was part of AASTMT's Golden Jubilee celebrations, featuring academic staff and students. It aimed to promote research and collaboration in bioinformatics, with support from AASTMT President Prof. Dr. Ismail AbdelGhafar Ismail Farag.



Closing Ceremony of the Egyptian Collegiate Programming Contest "ECPC 2023"

The closing ceremony for ECPC 2023 was held at AASTMT's AbuKir Campus, marking the culmination of the contest, which involved 7,500 students from 96 Egyptian universities. The event was attended by notable figures, including AASTMT's president, ICPC officials, and representatives from the Ministry of Communications and sponsoring companies. ECPC 2023 was supported by the Innovators Support Fund.



AASTMT and Alamein International University Host Joint Lecture on Research Ethics

AASTMT and Alamein International University held a lecture led by Prof. Dr. Mariam Abbas from Sudan University of Science and Technology. The lecture emphasized research ethics, focusing on informed consent and promoting quality research standards. This event reflects both universities' commitment to educational collaboration and academic integrity.



AASTMT Hosts Workshop on Nano Resonators

AASTMT and Damanhour University organized a workshop focused on the research project "Nano Resonators Under Theory of Two-Temperature Generalized Thermoelasticity Based on Thermomass Motion," funded by the Science, Technology & Innovation Funding Authority (STDF). The event, held at AASTMT's AbuKir campus, involved faculty, researchers, and postgraduate students from eight universities, highlighting the project's progress and research in mathematics.



Upcoming Goals

AASTMT has set ambitious goals to further advance its commitment to SDG 4 in the upcoming year. AASTMT plans to expand its curriculum alignment initiative to achieve full integration of SDGs across all colleges and departments, ensuring a holistic approach to sustainability in education. Upcoming projects include developing specialized training programs for educators to embed SDG-focused teaching methodologies and fostering interdisciplinary research initiatives that address global challenges. AASTMT also aims to establish new partnerships with international universities and organizations to promote knowledge exchange and collaborative projects. Additionally, plans are underway to launch community engagement programs, such as workshops and competitions, to inspire students to apply innovative solutions to real-world problems. These initiatives reflect AASTMT's dedication to empowering learners and contributing to the global pursuit of inclusive and equitable quality education.