4.3.4 Education Outreach Activities Beyond Campus

The Arab Academy for Science, Technology & Maritime Transport (AASTMT) is dedicated to fostering community service and student volunteerism through its award-winning branches and chapters. AASTMT's committed community service unit and specialized centers for Entrepreneurship and Informatics also offer accessible programs. These organizations facilitate lectures, courses, and outreach activities targeted at schools, while various colleges engage in educational initiatives that encourage public participation.

The Academy's educational outreach spans across Egypt, the Arab region, and internationally, promoting STEM education, entrepreneurship, and sustainable development in alignment with the United Nations Sustainable Development Goals (SDGs). During the 2023–2024 academic year, AASTMT implemented over 15 significant outreach programs and major events, reaching 27 Egyptian governorates and involving participants from 96 countries. This effort engaged more than 100,000 individuals and allocated over 10 million EGP in funding and support for entrepreneurship initiatives.

Regional Informatics Centre (RIC) Outreach Programs:

The Arab Academy for Science and Technology (AASTMT) founded the first Regional Informatics Center (RIC) in the Middle East and North Africa in 2001, located in Alexandria, Egypt. This center hosts the International Collegiate Programming Contest (ICPC) for university students from Africa and Arab countries, and it organizes national competitions in partnership with local ministries of education and telecommunications.

Evidence: AAST Regional Informatics ; AAST Regional Informatics social media

Student Society Branches and Chapters at AASTMT:

AASTMT offers a variety of student societies and chapters at its Alexandria and Cairo campuses, covering technical, professional, hobby, and cultural interests. Notable societies include IEEE, IEEE-HKN, ACI, IISE, ASME, Enactus, and AIESEC.

Evidence: website info

AAST Entrepreneurship Center:

The AAST Entrepreneurship Center, established in 2015 by the Arab Academy for Science, Technology & Maritime Transport, aims to empower Arab youth and create a sustainable ecosystem in the Arab region and Africa. Initially focused on the academy community, it has expanded its outreach by launching various programs for young entrepreneurs at different startup stages and organizing public events to support effective business leadership.

Evidence: website

Toward a Green and Sustainable Future - STEM Initiative for SDGs

Date: November 16, 2024
Type: Ad-hoc

"Toward a Green and Sustainable Future" is an initiative designed to facilitate a visit by educators and students to the Arab Academy for Science, Technology & Maritime Transport (AASTMT) at the Abu Kir campus. This visit aims to enhance awareness regarding the United

Nations' Sustainable Development Goals (SDGs). The program featured two professional presentations, a laboratory tour, and a visit to the planetarium, during which participants engaged in discussions centered on strategies for reducing energy consumption. The initiative attracted over 40 participants.

Evidence: News Link

RIC organizes the following programmed and ad-hoc events:

Date: March 5 - April 6, 2024
Type: On-Programmed Basis

The Beaver Challenge is a global initiative designed to foster interest in informatics and computational thinking among students of all ages. Organized in over 50 countries, with approximately 3 million participants, the challenge aims to engage students in the field of computing. Each participant is allotted 45 minutes to respond to 12 questions that emphasize logical reasoning and computational skills. The Egyptian Beaver competition concluded with remarkable participation from 85,000 students across all governorates of the Republic. A computational thinking competition for school students across Egypt. Students from third grade of primary school through third year of secondary school participated. Sponsored by MCIT Egypt and AASTMT.
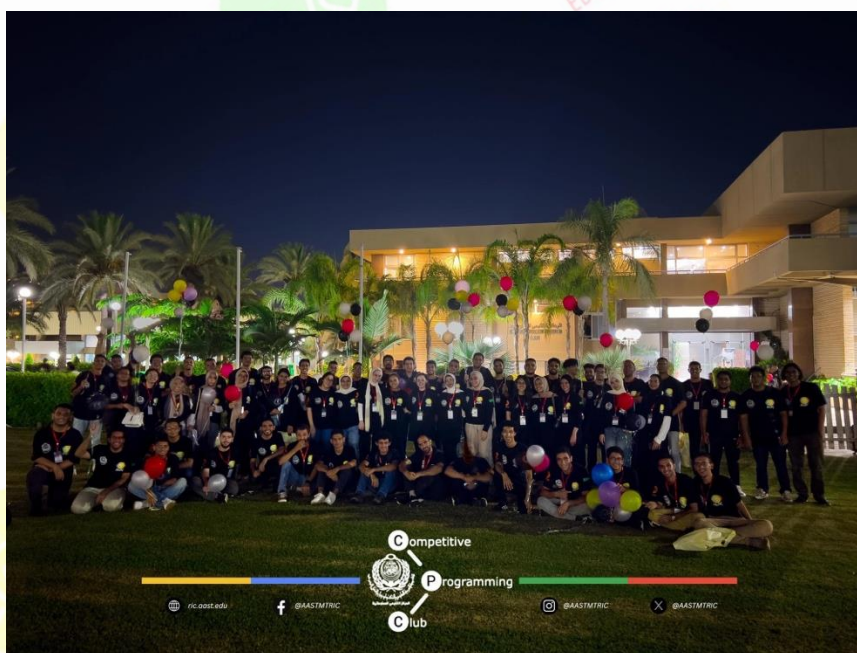

Evidence: Beaver Egypt webpage, Beaver Egypt Info Page

The Egyptian Programming Competition for University Youth (ECPC) 2024

Date: July 27, 2024
Type: On-Programmed Basis

Under the auspices of the Arab Academy for Science, Technology and Maritime Transport (AASTMT), the Egyptian Programming Competition for University Youth (ECPC) was launched in its twenty-fourth session, organized by AASTMT, in cooperation with the Ministry of Communications and Information Technology (MCIT) and the Innovators Support Fund at the Ministry of Higher Education and Scientific Research. 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 from various governorates of the Republic of Egypt Arabic to select the best 150 teams to participate in the final qualifiers.

Evidence: Event announcement

ICPC world finals - International Collegiate Programming Contest 2024

Date: April 14, 2024
Type: On-Programmed Basis

Under the generous patronage of His Excellency President Abdel Fattah El-Sisi, Egypt is preparing to host the International Programming Championship, which will be held in Luxor from April 14 to 19, 2024 and organized by the Arab Academy for Science, Technology and Maritime Transport in cooperation with all relevant ministries and state sectors. It is considered the largest and most important event in the field of software for university students – in the world, and it is one of the most important events organized in Egypt during the current period, as it brings together the distinguished youth of the world in the field of programming, and will witness for the first time the participation of 2,500 of the world's youth, representing the best 300 teams that have been chosen. Among 20,000 teams competing for the championship title.

Robocop Cup Egypt 2024

Date: Feb. 17, 2024
Type: On-Programmed Basis

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 activities of Egypt's local qualifiers will be held from February 12 to 15 at the Arab Academy for Science and Technology and Sponsored by our partners Telecom Egypt & EG-CERT. The top place teams will qualify for the international finals in the Netherlands from July 17 to 21, 2024.

36th International Olympiad of Informatics (IOI 2024)

Date: Sep. 8, 2024
Type: Ad-hoc

Opening ceremony of IOI 2024, the 36th International Olympiad of Informatics, hosted by AASTMT and streamed directly from the Bibliotheca Alexandrina! Witness the excitement as brilliant young minds from 96 countries for a celebration of coding, innovation, and excellence in informatics. This event is under the distinguished patronage of His Excellency President Abdel Fattah El Sisi and with the Arab League's commitment to investing in intellectual growth.

Evidence: Website Link

The 26th edition of the Arab Collegiate Programming Championship (ACPC) 2023

Date: Mar 28, 2024
Type: Ad-hoc

The commencement of the 26th edition of the Arab Collegiate Programming Championship (ACPC) 2023. This prestigious competition features over 150 teams representing 15 African and Arab countries include Egypt, Tunisia, Syria, Lebanon, Palestine, Ethiopia, Angola, Qatar, Algeria, Kuwait, Oman, Jordan and Iraq. There is also a school students' competition from five different nations, including Egypt, Jordan, Syria, Qatar, and Tunisia. With the presence of representatives from participating countries, we extend our best wishes for success to all the nations taking part in this competition. The unfolding events are taking place now in Luxor, Egypt.

Evidence: Event announcement

The Sixteenth Egyptian Olympiad in Informatics (EOI) 2023

Date: October 02, 2023
Type: On-Programmed Basis

Honoring the winning students of the Sixteenth Egyptian Olympiad in Informatics, which was held from 28 - 30 September 2023, in the presence of Prof. Dr. Ismail Abdel Ghaffar (AASTMT President) and Dr. Heba Saleh (Director of the Information Technology Institute) and Prof. Dr. Yousry El-Gamal (former Minister of Education)

Evidence: Event announcement

MATE Regional ROV Competition 2024

Date: April 25 – April 27, 2024
Type: On-Programmed Basis

The competition is designed to foster a new generation of Arab ROV builders, encouraging university and school students to engage in the design and construction of remotely operated vehicles (ROVs) or underwater robots. Participants compete to accomplish specific underwater missions, simulating real-world scenarioshis annual regional competition, held at Arab Academy for Science, Technology & Maritime Transport (AASTMT), invites undergraduate and high-school teams to design and operate Remotely Operated Vehicles (ROVs). Participants tackle real-world underwater missions, demonstrate engineering design and electronics integration, present technical documentation, and showcase marketing and corporate responsibility efforts.

Evidence: Event announcement

"Competitive Programming... Where to Start" 2023

Date: November 2, 2023
Type: Ad-hoc

An engaging session titled "Competitive Programming... Where to Start", designed to introduce students and enthusiasts to the exciting world of competitive programming. Learn how to begin your journey, build essential problem-solving skills, and explore opportunities to grow in this challenging yet rewarding field.

Evidence: Event Announcement

Student Society Branches and Chapters organize the following programmed and ad-hoc events:

Global Finale of IEEE-YESIST12-2023

Date: September 2, 2023
Type: Ad-hoc

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.

Evidence: Event announcement

Prelim Stage of IEEE-YESIST12-2024

Date: April 19-20, 2024
Type: On-Programmed Basis

Arab Academy for Science, Technology and Maritime Transport (AASTMT), the preliminary stage of the international competition "IEEE – Youth Endeavors for Social Innovation Using Sustainable Technology (YESIST12)" was held at the College of Engineering and Technology, Main Campus in Abu Qir, on Friday and Saturday, April 19–20, 2024. The event was organized by the IEEE-HKN Mu Beta Honor Society Chapter, in collaboration with IEEE-EJUST Student Branch, and with technical cooperation from the College of Engineering and Technology, IEEE Egypt Section, the "Egypt Makes Electronics" initiative, IEEE Egypt Young Professionals Affinity Group, and the IEEE Industry Engagement Committee.

Evidence: Event announcement

IEEE Egyptian Student Paper Contest 2024

Date: February 9, 2024
Type: Ad-hoc

The IEEE Egyptian Student Paper Contest (ESPC) was held on February 9, 2024, at the Arab Academy for Science, Technology & Maritime Transport (AAST) Alexandria Campus. The event brought together student researchers from across Egypt to present their innovative papers and compete for recognition at both the national and regional levels. The "IEEE Egyptian SPC'23 | AAST Alexandria" album on Facebook highlights memorable moments, showcasing participants, presentations, and award ceremonies. The contest celebrated academic excellence, creativity, and research innovation, with top winners advancing to the regional IEEE competition for further distinction. All participants proudly received certificates of participation to celebrate their enthusiasm and achievements.

Evidence: Event announcement

Quarter Tech Talk Table Series 14.0

Date: August 29, 2024
Type: Ad-hoc

The Quarter Tech Talk Table Series 14.0 was hosted at the Arab Academy for Science, Technology & Maritime Transport (AASTMT) – College of Engineering and Technology, Main Campus Alexandria, in collaboration with five partner organizations. Held on August 29, 2024, this marked the 2nd International Edition in Egypt, featuring the theme "Beyond the Hype: Exploring Technology's Real Impact." The event brought together 30+ participants from across Egypt for an engaging discussion on technology awareness, innovation, and career development. Organized in partnership with IEEE Young Professionals, IEEE SSIT (UAT Technical Committee), IEEE HKN Mu Beta Chapter, IEEE YP Egypt Section, and IEEE TV, the session offered diverse perspectives on emerging technologies. All attendees received a certificate of participation as part of this impactful and collaborative tech dialogue.

MSI Gaming Day 2024

Date: July 19, 2024
Type: On-Programmed Basis

The MSI Gaming Day is an exciting, action-packed event organized by the IEEE AAST Alexandria Student Branch at AASTMT. It brings together gaming enthusiasts for a day full of thrilling competitions, interactive challenges, and fun activities. The event is designed to celebrate teamwork, strategy, and the spirit of gaming within the student community. Participants enjoy exciting matches, exclusive prizes, and engaging experiences throughout the day. All attendees receive certificates of participation in recognition of their involvement and enthusiasm. The event had more than 60 participants.

Robotics: From Zero To Hero 2024

Date: March 12, 2024
Type: On Programmed-Basis

"Robotics: From Zero To Hero 2024" refers to a comprehensive robotics learning path or event designed to take learners from beginner level ("zero") to advanced proficiency ("hero") in robotics concepts and applications. There appears to be both a book and an educational event related to this title in 2024.

Evidence: Event announcement

WebWave Workshop IEEE AAST SB

Date: March 12, 2024
Type: Ad-hoc

The WebWave Workshop is a free, developer-bootcamp style event organized by the IEEE AAST Alexandria Student Branch at AASTMT. It focuses on enhancing participants' web development skills through hands-on sessions. The workshop spans multiple days, offering both front-end and back-end learning experiences. It targets students and aspiring developers aiming to build practical technical skills. Participants receive an official certificate of completion at the end of the workshop. The event had more than 50 participants.

Evidence: *Event announcement;* *Website Link*

STEM Outreach for High School Students

Date: August 18, 2024
Type: Ad-hoc

AASTMT Engineering hosted STEM outreach sessions for high school students, providing hands-on activities and exposure to engineering disciplines to encourage STEM career interest.

Evidence: *Event Announcement*

AAST Entrepreneurship Center organizes the following programmed events:

Egypt Rally Startup Competition 2023

Date: September 11–12, 2023
Type: On-Programmed Basis

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.

Evidence: Egypt Rally Link

Egypt Rally Competition 2024

Date: September, 2024
Type: On-Programmed Basis

The AAST Entrepreneurship Rally, organized by the Arab Academy's Center for Entrepreneurship, empowers individuals to transform their business ideas into startups through comprehensive training sessions. Finalists present their ventures to an international panel, with winners receiving cash prizes and placements in incubation programs. Over the past eight years, the center has significantly expanded opportunities for university students, hosting four competitions and supporting more than 300 startups. It has conducted over 500 training sessions, awarded in excess of $10 million in funding, and established partnerships with 50 organizations, thereby fostering entrepreneurial skills and nurturing a vibrant startup ecosystem.

Evidence: website

AYB-AAST

Type: On-Programmed Basis

YB-AAST operates as a student volunteer franchise of AYB-SD at AAST, focusing on sustainable development in Bolaq Abo El-Ala', a region with significant socioeconomic challenges. Established in 2010, AYB aims to improve living standards and educational skills through four key programs:

Youth Development Program (YDP): Promotes education, personal development, and moral values among children and youth.

Illiteracy Education Program: Teaches foundational reading and writing skills to reduce illiteracy rates.

Loans and Employment Program: Creates job opportunities and offers microloans for small businesses, while developing essential soft skills.

Charity Program: Addresses basic needs like food and shelter to support families in accepting sustainable development initiatives.

Evidence: Program ; Youth development program