



Goal 4 – Quality Education

4 QUALITY EDUCATION



Our Aim

Enhancing enrolment; Enhancing equitable access to education; Enhancing infrastructural development; reduced financial burdens on parents; Recruitment of teachers; and human resource development ; promote lifelong learning opportunities for all.

Last Year Recorded

Worldwide : 112

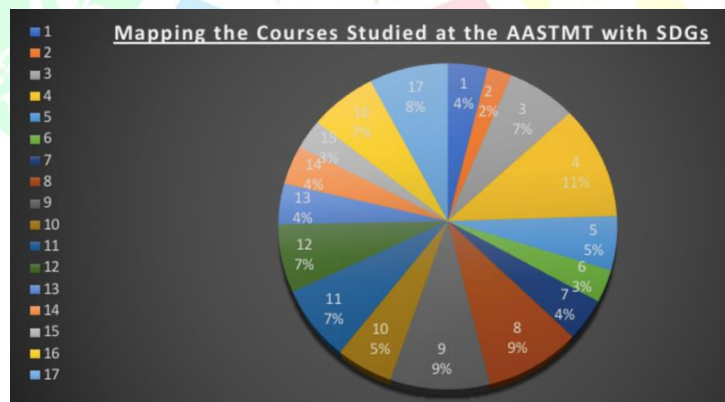
Egypt : 1

Our Progress through 20/21

Teaching

1- Mapping the Courses Studied at the AASTMT with SDGs

At the university level, Mapping the curriculum to SDGs resulted in the courses achieved different percentages, as shown in the chart, the curriculum of AASTMT covers almost all SDGs, noting that there are some SDGs need to be more coherent in the curriculum, which are: SDG1, SDG2, SDG6, SDG7, SDG13, SDG14, SDG15. This is the first phase, and in current term we are planning to further developing of SDGs in the curriculum. In addition, we found that it would be better to execute this study in a more accurate way, by implementing it at the college and department levels.





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2- Scholarship initiative — CCNA Preparation Course with certificate for public

Scholarship program initiative by IEEE-HKN Mu Beta Chapter-AAST, and certificates have been sent to all 82 recipients.

#IamHKN

**Scholarship Program
CCNA Certificate Preparation Course**

- 1 Scholarships are provided by Dr. Mohamed Mahmoud, CCIE Cisco Certified Internetwork Expert CCIE # 18220 since 2007
- 2 80 scholarships available for students and fresh graduates.
- 3 Awardees will be selected based on an entry test. The test and course will be held virtually.
- 4 Three weeks, 3 Session / Week. Starting on Monday Sept. 13th. Every Mon - Tues - Wed

Registration: 28th Aug - 8th Sept 2021

Mu Beta Chapter
Arab Academy for Science, Technology & Maritime Transport (AASTMT)

HKN IEEE-Eta Kappa Nu

AASTMT Alexandria

QUALITY GENDER

3- Smart-Tech Gadget Workshop Series and Hackathon with certificate for public

A two day workshop and resource sharing for three months We were very delighted to organize our first episode of the hands-on smart tech gadgets' series and celebrate the Arduino Day 2021 titled "Undistancing: Open Makes us Close". We would like to thank our speakers Prof. Heba Shaban (our faculty advisor), Mohamed Ashraf and Emad Taher (our chapter members) for the valuable information and activities they provided. And special thanks to Eng. Mariham Rezk and Eng. Saji Alaa for volunteering with us in organizing the workshop!!

#IamHKN

**WORKSHOP AND HACKATHON
HANDS ON SMART TECH
GADGETS' SERIES**

EPISODE 1: SMART GLOVES

LEARN . ENGAGE . COMPETE

THURSDAY 25/3/2021 (VIRTUAL)
SATURDAY 27/3/2021 (ON-CAMPUS)

T E C H

Mu Beta Chapter
Arab Academy for Science, Technology & Maritime Transport (AASTMT)

HKN IEEE-Eta Kappa Nu

AASTMT Alexandria

QUALITY GENDER



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4- Free Webinar with certificate under title “Mobile Technology Evolution”

IEEE-HKN MU BETA CHAPTER PRESENTS
Techinar Entitled
Mobile Technology Evolution
Eng. Nader Samir
TX Second Line Sr. Specialist
Vodafone Egypt

Date: 8/12/2020 **Time: 8 PM** **Free & Open for All via Zoom**

https://m.facebook.com/HKN.Mu.Beta/posts/pfbid0VC8wrHWdMb59Y8CFADGgeav22nw446Y63o7CP9TQ8RUzUV1jqJiGT3b4TLVsHsAol?_cft=%5B0%5D=AZWtVue06jogZw5eyqi1Zwvf2z1qGWzbBau3fPkEb9c-t7nM7F9F_rAGV6Va_SUhkqmnQUaTqCy9EhfWwgOHUPYOBnzTw1yMJvzAbxrKZ-1ZRZTvURAI7yCbncSRVcqX8bz8EleQnTySg2kurSfq1J9Kx5X-QG_x-wjRBOs0JJKOE8h4LId-eExNM5YICFdjK7NH65XoBCJtH6XFzbH6IP&_tn=%2CO%2CP-R&dl_redirect=1

5- Opening Session of the 30th International Conference on Computer Theory and Applications (ICCTA 2020)

https://aast.edu/en/news.php?unit_id=1&language=1&page=146&event=4995&get_event_type=1

6- AASTMT College of Artificial Intelligence - Bibliotheca Alexandrina "Workshop"

https://aast.edu/en/news.php?unit_id=1&language=1&page=154&event=4892&get_event_type=1

Initiatives

1- AI4SDG Initiative

AASTMT will organize the first annual hackathon “AI 4 SDGs” to create solutions to some of the world’s toughest problems using data.

During this hackathon, we will be on the lookout for disruptive and innovative solutions that use data, machine learning and artificial intelligence to fast track progress towards the UN Sustainable Development Goals (SDGs).



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We are looking for enthusiastic data people - students and professionals in the broad field of AI, Deep Learning and Data Science. There are no strong requirements other than the strong interest in contributing to the UN SDGs.

In the global attempts of achieving sustainability, and more notably, meeting the UN Sustainable Development Goals (SDGs), AI can become a powerful weapon towards a circular economy and more sustainable living.

2- SDGs Curriculum Pilot

This is the second phase for” **Mapping the Courses Studied at the AASTMT with SDGs**

In this phase , We need to investigate the curriculum associated with SDGs in AASTMT at the department, college and university levels. The objectives of this study are:

- (1) establishing a baseline status of sustainability in the overall curriculum of AASTMT through the distribution of SDGs-related courses at different levels,
- (2) understanding the interdisciplinary capacity of the faculty members in pursuing the SDGs and
- (3) offering evidence-based practice for departments to reform their curriculum by integrating SDGs. The SDGs course inventory provides opportunities to gain insights into the whole structure of the curriculum framework, such that a university may plan its strategy for sustainability accordingly.

Research

- 1) The International Maritime Transport and Logistics Conference - MARLOG 9
https://aast.edu/en/news.php?unit_id=1&language=1&page=154&event=4894&get_event_type=1
- 2) Fifth Technical Education Forum" at AASTMT Industry Service Complex
https://aast.edu/en/news.php?unit_id=1&language=1&page=92&event=6011&get_event_type=1
- 3) The International Telecommunications Conference (ITC-Egypt 2021)
https://aast.edu/en/news.php?unit_id=1&language=1&page=119&event=5602&get_event_type=1
- 4) Final conference of "INNOLEA PROJECT" at AASTMT AbuKir Campus
https://aast.edu/en/news.php?unit_id=1&language=1&page=121&event=5540&get_event_type=1
- 5) IATF” – “Afreximbank” Virtual Event On "The role of AASTMT In Maritime Education and Training"
https://aast.edu/en/news.php?unit_id=1&language=1&page=128&event=5430&get_event_type=1
- 6) Maritime Transport and Logistics Conference ,Marlog 10 ,“Digitalization in Ports & Maritime Industry”
https://aast.edu/en/news.php?unit_id=1&language=1&page=112&event=5689&get_event_type=1



Public Engagement

- 1- Beaver Challenge is an international initiative aiming to promote informatics and computational thinking among school students at all ages. It is organized in over 50 countries (3 million participants) and designed to get all students excited about computing. Each participant gets 45 minutes to answer 12 questions that focus on logical thinking and computing.

<https://www.beaveregypt.org>

<https://www.youtube.com/watch?v=gjHyHoUUQHM>

- 2- The EOI is the biggest programming contest for school students since 2003 under the patronage of the Ministry of Communication and Information Technology and Arab Academy for Science and Technology. The contests are hosted by AASTMT every year.

<https://www.youtube.com/channel/UC6zxNvvWUzSyW0spixXH7Pw>

https://mcit.gov.eg/en/Media_Center/Latest_News/News/66451

<https://www.facebook.com/eoi.eg>

- 3- ECPC (Egypt Collegiate Programming Contest), ACPC (Arab & African Collegiate Programming Contest) programming contest. The contest fosters creativity, teamwork, and innovation in building new software programs, and enables students from different universities in Egypt and Arab region to test their ability to perform under pressure. Quite simply, it is the oldest, largest, and most prestigious programming contest in the world. The contests are hosted by AASTMT every year.

https://www.youtube.com/c/ACPCNews1/videos?app=desktop&view=0&sort=p&shelf_id=0

https://aast.edu/en/colleges/coe/alex/coe-news.php?unit_id=65&last_id=76&get_event_type=1

https://aast.edu/en/news.php?unit_id=65&language=1&page=7&event=81&get_event_type=1

https://mcit.gov.eg/en/Media_Center/Latest_News/News/63256

<https://www.facebook.com/EgyptCPC>

<https://www.facebook.com/AfricaArabCPC>

- 4- ROV (Remotely operated underwater vehicle) which is a Competition is made for building new generations of Arab Rovers to make university and school students compete in design and build ROV or underwater robot to achieve mission underwater, which is simulation to real mission.

<http://www.aast.edu/en/centers/ric/rov/index.php>

https://aast.edu/en/news.php?unit_id=65&language=1&page=7&event=80&get_event_type=1

https://aast.edu/en/news.php?language=1&unit_id=411&event=7&get_event_type=1

- 5- RoboCup was founded in 1997 with the main goal of “developing by 2050 a Robot

Soccer team capable of winning against the human team champion of the FIFA World Cup”. In the next years, RoboCup proposed several soccer platforms that have been



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established as standard platforms for robotics research. RoboCupJunior is a project-oriented educational initiative that support local, regional and international robotic events for young students. It is designed to introduce RoboCup to primary and secondary school children, as well as undergraduates who do not have the resources to get involved in the senior leagues. The focus in the junior league is on education.

<https://www.rcjegypt.org>

6- Summer School

Community service and continuing education programs provide training courses for general public-young people from 4 to 16 years old-Through the summer program, a program that was prepared by a group of experts in the scientific and educational field in order to provide scientific and recreational content together to develop the skills of young people and discover their talents and explore their skills and capabilities that have not yet been discovered. The courses are in different fields like:

- Computer courses
- Graphic design courses
- Languages courses
- Design & craft
- Robot building
- Skills building
- Arabic calligraphy
- Engineering for kids

<https://aast.edu/en/deaneries/csp/alex/>

<https://www.facebook.com/CSP.aastalex/>

Case Study

1- NASA Space Apps Challenge

NASA Space Apps Challenge co-organized by NASA Space Apps Alexandria and IEEE Eta Kappa Nu (IEEE-HKN) Mu Beta Chapter. The three-day event was held on 22-24 September 2022, and sponsored by Alexandria Governorate, EGSA- Egyptian Space Agency وكالة الفضاء المصرية and Arab Academy for Science, Technology and Maritime Transport, and hosted by College of Engineering and Technology Main Campus Alexandria-AASTMT.

Day one featured public figures as well as professionals from academia and the industry. First panel of speakers included Major General Mohamed Elsherif (Alexandria Governor), Prof. Mohamed El-Quosy (Past President of EGSA), Prof. Alaa Abdel Bary (Vice President at AASTMT), Prof. Hassan Elnomany (Vice President of Sohag University) and Prof. Akram Soliman Elselmy (Dean of College of Engineering and Technology, AASTMT, Abu Kir Campus).



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Following that, the day featured multiple panels and talks from NASA Space Apps Alexandria advisors Dr. Nagham Elsherif and Dr. Marwa Hamad, IEEE-HKN Mu Beta Advisor Prof. Heba Shaban, Dr. Ayman Mahrous, Eng. Ahmed Aboulela, and success stories from past participants and entrepreneurs.



2- Tech-Innovation Challenge

Under the auspices of Professor Ismail Abdel Ghafar, President of AASTMT, the College of Computing and Information Technology - Smart Village, under the deanship of Professor Aliaa Youssif, had the pleasure to launch its annual challenge, the Tech-Innovation



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challenge, organized by Professor Nahla Belal, Vice Dean for Education and Student Affairs, targeting the youth in different schools of Egypt to join the field of computing, this year the challenge was about solutions for sustainable development goals. The challenge targeted many schools with a total number of participants of over 50 students joined the challenge from different schools, among which are El Alsson school, Modern Education School, Leaders and others. The prize giving ceremony was held on Thursday, 2nd of June, 2022, in the Smart Village campus.





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3- PACES Project Team Visits school

Within the leading role of the Arab Academy for Science, Technology and Maritime Transport (AASTMT) in serving the Egyptian society and in qualifying students in various fields, AASTMT PACES (Progression of Accessibility Centres in higher Education for Students with disabilities in North Africa) Project Team under the auspices of AASTMT Deanery of Student Affairs and in cooperation with Fayoum University carried out “Pop-Up” Visits of PACES Project on 29th - 30th of December 2020, as to present "PACES" project activities as funded by the European Union's Erasmus+ program. It's worth to mention that during the current situation of the COVID-19 pandemic and the last days of the year 2020, PACES Project Team held the “Pop-Up” Visits by applying all the precautionary and preventive measures, These visits took place to some National Schools in Alexandria under the auspices of the Deanery of Student Affairs at AASTMT & PACES Project Team.. The visits include visiting "Al-Nour School for the Blind in Fayoum Governorate", "Al Fayyum Manarat Al-Ataa Association", and "El Amal For Deaf & Hearing Impaired School in Fayoum Governorate", Victory College (VC), El-Nasr Girls College (E.G.C.), EL Nasr Boys School (E.B.S.), these visits provide awareness sessions about students with special needs and the introduction of assistive technology devices(AT) that assists these students in the educational process. More visits to a number of universities, schools, associations and conferences, please check Annex 2 for more details and visits in national schools.



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<https://aast.edu/en/centers/ac/>

https://aast.edu/en/centers/iprc/contenttemp.php?page_id=52500022

4- Summer Youth Camp

This is a summer training program, and any Egyptian or Arab student at any university has the right to join the program according to the specialization that is announced by the training sector, and the Academy hosts students of this program every year for 3 days within the training program.

a) First Summer Training Youth Camp

The opening of the first training camp for students of the summer training program of the League of Arab States for the year 2021, which was held during the period from 13-16/8/2021 at the headquarters of the Arab Academy for Science, Technology and Maritime Transport in Alexandria.



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b) Second Summer Training Youth Camp

in keeping with the Arab Academy for Science, Technology and Maritime Transport (AASTMT) role as a house of Arab experience and a pioneer of academic excellence, AASTMT has hosted the second summer training camp program of the General Secretariat of the League of Arab States during the period 22 - 25 September 2021, at AASTMT AbuKir Campus – Alexandria, where the program was held under the auspices of H.E Mr. Ahmed Aboul Gheit - Secretary General of the League of Arab States, and H.E Prof. Dr. Ismail Abdel Ghafar Ismail-AASTMT President.

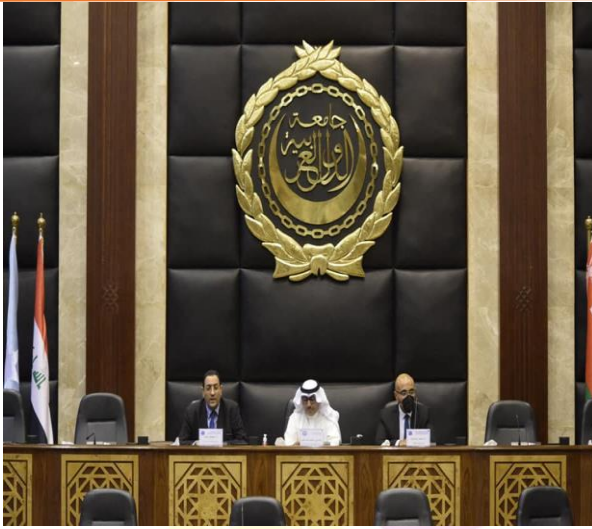
It's worth to mention that AASTMT held the opening ceremony of the summer training camp program at AASTMT AbuKir Campus, in the presence of H.E Plenipotentiary Minister Majid Al-Mutairi - Director of Training and Development of Work Methods of the General Secretariat of the League of Arab States, and H.E AASTMT Officials.

During the Second Summer Training Youth Camp, the students visited AASTMT Alamein City Campus with the educational buildings and laboratories, where they praised the level of AASTMT capabilities and the current position at the local and international levels, then Prof. Dr. Ali Fahmy - Dean of AASTMT College of Artificial Intelligence presented a seminar on "Artificial Intelligence Recent trends and its future in the Arab region".

https://aast.edu/en/news.php?unit_id=1&language=1&page=91&event=6023&get_event_type=1



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A visit to the Academy's branch in El Alamein on Thursday, September 23, 2021 within the activities of the Arab League Student Camp Program - Summer Training Program. Dr. Ali Fahmy, Dean of the College of Artificial Intelligence, Academy Branch in El Alamein, gave a lecture on recent trends in artificial intelligence and its future in the Arab region.