



# EMET NEWSLETTER

- **Message from Program Head**  
Page 1
- **Abu Dhabi Education Leadership Award**  
Page 2
- **Maker Faire Dubai 2019**  
Page 4
- **EMET Department Seminar Series**  
Page 6
- **Industrial Visit**  
Page 8
- **EMET IFTAR 2019**  
Page 9
- **EMET PD Week**  
Page 10
- **HVAC Training Session**  
Page 12
- **Your Brain on Books**  
Page 13
- **Internet-Both Sides of the Coin**  
Page 14
- **ADEK Research Conference**  
Page 16

**Issue 4, May 2019**

## MESSAGE FROM PROGRAM HEAD, EMET



Respected faculty members and students,

While the need for excellent technical skills is growing, we welcomed a big undergraduate class in the Program this summer. We are delighted with the quality of the incoming students. It is up to us now to provide the same, if not better, learning experience for the enlarged study body, given resource constraints.

It gives an immense pleasure to release annual newsletter of Electro-Mechanical Engineering Technology Program for the academic year 2018/2019. During this year, various curricular and co-curricular activities were conducted successfully by the faculty and students. Participation of Electromechanical Engineering faculty in multiple training programs, National and International conferences was the highlight of the activities, which we encourage to continue in the coming years. Through periodic seminars, symposia, workshops, graduation projects, industrial visits and industrial training as integral parts of the course, the students were equipped with technical knowledge, critical thinking skills and creativity to excel in the engineering profession.

The electromechanical engineering program is committed to creating a conducive atmosphere for the development of students into bright professionals of the future. I believe, that in the years to come, armed with commitment and perseverance of both faculty and staff. The program will continue to be the trendsetter in offering an array of curricular and co-curricular activities to achieve academic excellence.

I hope you enjoy reading this issue of the newsletter as in the past. Please let us know your story and suggestion.

Prof. Saud Aldajah  
Program Head  
Electromechanical Engineering Technology

**Dr. Saud, Head of EMET, Abu Dhabi  
 Polytechnic received Abu Dhabi Education  
 Leadership Award 2019**

**ABU DHABI  
 EDUCATION  
 LEADERSHIP  
 AWARDS 2019**

27th March, 2019 | Novotel Abu Dhabi Al Bustan

Dr. Saud Hamad Aldajah, Head of Electromechanical Engineering received Abu Dhabi Education Leadership Award on 27th March 2019 for showing leadership excellency in Electromechanical Engineering. This award is presented to an individual who has crafted leadership with his/her work and thinking. The award indicates excellence in the application of leadership principles to business situations.

The Abu Dhabi Education Leadership Awards are presented by Asian Confederation of Businesses with CMO Asia as its Strategic Partner and Stars of the Industry Group as a research partner. The Awards of the highest stature are presented to Individuals and Institutions who have surpassed several levels of its excellence and set an example of being a role model and Exemplary Leadership.

Education will play an essential role in shaping the destiny of the future of the world, i.e. the Students. There's a Chinese saying "When the student is ready, the teacher appears". The Abu Dhabi Education Leadership Awards will recognise Institutions and Individuals who believe Excellence is infinite and can lead to shaping the destinies of the future of the World.



Dr. Saud, HOD-EMET receiving Abu Dhabi Education Leadership Award 2019



GCC LEADERSHIP AWARD 2019

#### ✚ Award Criteria:

Those who can make a difference in the lives of others are chosen for this award. For the quality of their work, global reach and outlook and ability to contribute the value of social change. Change can be quantified - especially since it impacts the lives of many. If it does, then it is a positive change. However, the main is Making A Difference (MAD).

#### ✚ Process:

The Abu Dhabi Education Leadership Awards is an intensely researched process undertaken by the research cell, which consists of Post Graduates in History & Management with over five years of research experience posts their studies. It is the iconic job of the research cell to produce a shortlist of Individuals who are doing extraordinary work and track the record of their achievements. A Jury comprising of senior professionals from across the globe then reviews the shortlist.

**HEARTY CONGRATULATIONS TO OUR HEAD OF ELECTROMECHANICAL ENGINEERING, ABU DHABI POLYTECHNIC**

## EMET STUDENTS WON THE BEST FEATURED PROJECT IN MAKER FAIRE DUBAI 2019



AD Poly EMET Students Receiving the Awards

Maker Faire Dubai held on 26-28 February 2019 under the patronage of Hamdan bin Rashid Al Maktoum Foundation for Distinguished Academic Performance. The participating projects were categorised as engineering, manufacturing, science, art, entertainment gaming and more. The committee members, which include experts from various disciplines, select top 5 projects based on set criteria to qualify for the final round. This is to ensure qualified projects will adhere to the aim of Dubai Maker Faire which is to promote innovation and to create a culture of creativity in support of innovators, artists, hobbyists, engineers, students and individuals from various walks of life.

It is a proud moment for Abu Dhabi Polytechnic for the participation of our EMET students and winning the best-featured project award for 2019.

Congratulations to the team members & project supervisors:

**Team members:** Shama Alzaabi, Asmaa Alameri, Muzoun Aldaheri, Khawla Alkendi, Noura Alyazidi, Ahmed Alhosani, Khalid Alhammadi, Dahi Alzaabi

**Supervisors:** Dr Peter Jawson, Dr Shaaban Ali, Dr Qais



EMET Success Team-Maker Faire Dubai 2019



EMET Featured Projects for Maker Faire Dubai 2019



Winners of the Featured Project-Maker Faire Dubai 2019

## EMET SEMINAR EVENT ON SMART GRIDS

EMET Department always in the process of conducting seminars by inviting speakers both from external and internal for the benefits of our student community in Abu Dhabi Polytechnic. The main objective is to engage our students in discussions of subjects related to their field. Dr. Farhan Malik presented a seminar on "SMART GRIDS" on 13<sup>th</sup> February 2019 at Abu Dhabi Polytechnic Auditorium. Overall, the response was very positive and encouraging for our students.

**EIS** **EMET INNOVATION SOCIETY**  
 Seminar Series  
**"Smart Grids"**  
*Modern Trends in Electrical Power Systems*

Speaker: Dr. Farhan Malik, EMET  
 Contact: farhan.malik@adpoly.ac.ae . 0501609210

When: February 13th, 2019, 12 pm - 12:45 pm **Welcome** Venue: Auditorium Ground Floor



بوليتكنك  
 POLYTECHNIC

## EMET Department Seminar Series


 ELECTROMECHANICAL  
 ENGINEERING

### "From Good Idea to Great Design Using Simulation"

**Speakers:**     **Mr. Yannick Margani, Dassault Systèmes**  
                          **Mr. Mohamed Amine Abichou, LaunchTech**

EMET department organised a guest lecture series on 20<sup>th</sup> February 2019 between time 12 pm and 1 pm. Dr. Fahad Almaskari from LaunchTech and Mr. Yannick Margani from Dassault Systems presented an informative and stimulating topic titled "From Good Ideas to Great Design Using Simulation", and the response was terrific. It was a splendid presentation which exposed our staff and students in future growth areas of simulation design. During the presentation, guest speakers compared the past and present developments happening in design simulation and shared their future ideas for further growth. EMET Department is always in the process of strengthening the links from a surrounding industry group, and planning to arrange a workshop event very soon with LaunchTech for the maximum benefit of our staff and students especially doing graduation projects.



Dr. Saud, EMET Head of Program thanking the guest speakers





## EMET Industrial Visit DUCAB Cables Factory

23<sup>rd</sup> April 2019

Organizer: Dr. Farhan Malik

At Abu Dhabi Polytechnic, we believe learning should not be restricted to four walls. To bring the immersive learning within the engineering students, here in EMET Department, we always incorporate industrial visit as part of the course. Dr. Farhan Malik, Assistant Professor, coordinated with DUCAB Cables Factory and organized industrial tour on 23<sup>rd</sup> April 2019. The trip overall gained great insight for our AD Polytechnic students, and the visit provided an opportunity for our EMET students to explore future growth areas in their related field.



EMET STUDENTS AT DUCAB CABLES FACTORY

## EMET DEPARTMENT IFTAR DINNER 2019

**Location:**  
**Marriott Hotel Al Forsan.**

EMET Department under the leadership of Dr. Saud Aldajah, hosted their annual Iftar dinner, at Marriott Hotel Al Forsan, Khalifa City, Abu Dhabi, on Tuesday 14<sup>th</sup> May at 6.30 pm. The event brought together EMET staff members and their families from diverse cultural and religious backgrounds. Dr. Ahmad Alawar, Managing Director, IAT and Dr. Ali Hilal Alnaqbi, Director, Abu Dhabi Polytechnic were the guests joined with the EMET family on that pleasant evening and made the event memorable.

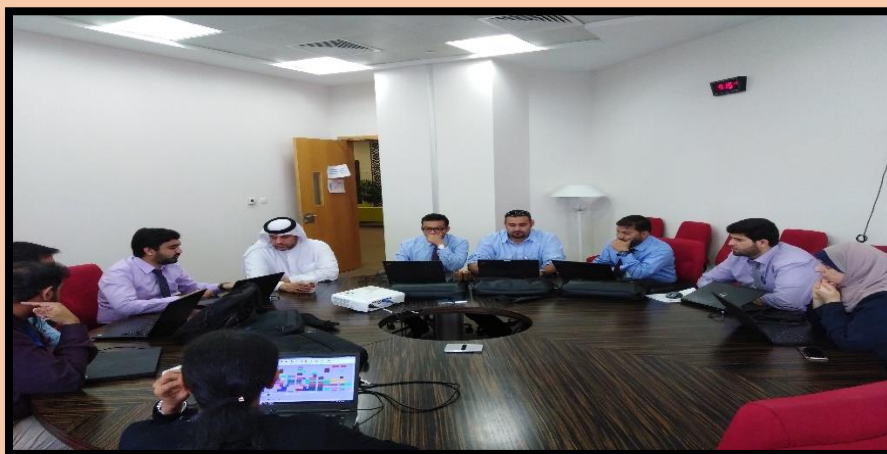


EMET Team-Iftar Dinner

## EMET PROFESSIONAL DEVELOPMENT ACTIVITIES WEEK

EMET Department Professional Development (PD) Sessions took place during the second week of April 2019, headed by Dr. Saud Aldajah and all staff members participated in various positive discussions and provided their valuable suggestions for the future growth of the department. The details of the PD session week as follows:

No	Day	Date	Time	Training/Activity
1	Sunday	4/7/2019	9:00 am– 4:00 pm	ABET Accreditation/ Syllabi Update
2	Monday	4/8/2019	9:00 am– 4:00 pm	Curriculum Update
3	Tuesday	4/9/2019	9:00 am – 12:00 noon	Positive Teaching
			1: 00 pm– 4:00 pm	Advising Workshop
4	Wednesday	4/10/2019	9:00 am – 4:00 pm	Workshop – Research Activities on key areas including market analysis for next 5 years
5	Thursday	4/11/2019	9:00 am – 12:00 noon	Research and Innovation Stimulus Plan



Dr. Saud & EMET Staff Members –SO's/CLO's Mapping Discussion

Eng. Anand Gopalakrishnan, EMET conducted a brainstorm session on "Positive Teaching" during the PD week, and all staff members shared their views for enhancement of the teaching-learning process in Abu Dhabi Polytechnic. Importance of cooperative learning and digital class environment discussed in this session.



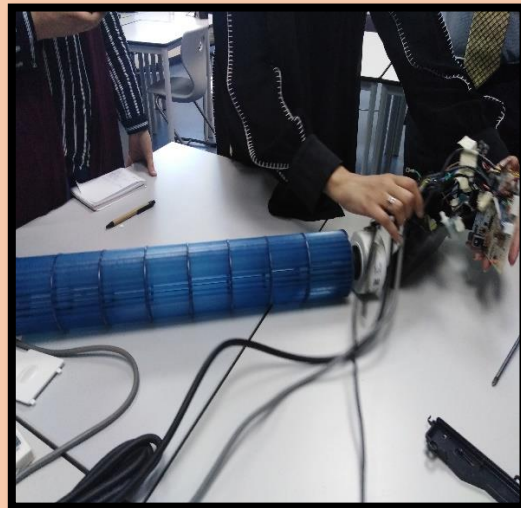
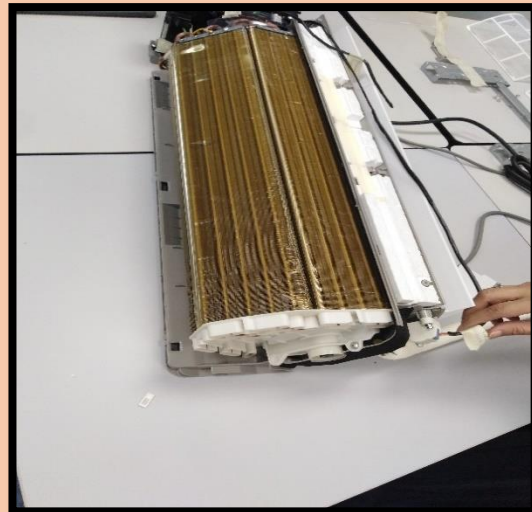
Positive Teaching Workshop Session



Mr. Mohammad M. AlHamad, Librarian conducted workshop on AD Poly e-text books & e-library

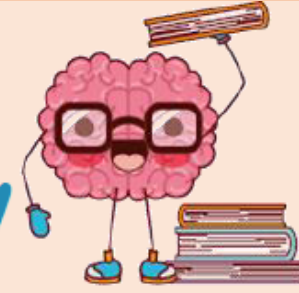
## TRAINING OF ASSEMBLY & DISASSEMBLY OF HVAC SYSTEMS-ATHS DUBAI

Eng. Rasha Tabasha & Eng. Anand Gopalakrishnan attended a one-day workshop on Assembly & Disassembly of Refrigeration Systems at AHS, Dubai on 10<sup>th</sup> March 2019. The training focused on the function of various electrical types of equipment in refrigeration and AC systems, and the trainees explored the internal parts of the system and compared with the course content in Abu Dhabi Polytechnic, and thanks to the trainer Ms. Wafa Alsuwaidi & IAT Management.



SNAPSHOTS OF HVAC TRAINING SESSION –ATHS DUBAI

# Your Brain On Books!



BY DR. SAWSAN DAGHER | MARCH,9,2019

*According to scientists, though, one of the best ways you can exercise your brain is reading, and the reason why is all connected to memory.*

## Rumor or Fact ! Readers Live Longer ?

According to a study conducted by Yale researchers on 3,635 people older than 50 and concluded that those who read books for 30 minutes daily lived an average of 23 months longer than nonreaders or magazine readers. Seemingly, having reading books as an everyday activity enhances mental engagement, including vocabulary, thinking skills, and concentration. It also can affect empathy, social perception, and emotional intelligence, which helps increase people's life span on earth.

Another study found that elderly persons who read frequently are 2.5 times less expected to develop Alzheimers, by keeping the mind cognitively stimulated. Reading has also been linked to slowing mental decline by keeping important parts of the brain working, and improving overall mental flexibility, an important component to developing and retaining memory. It is with no doubt that reading is essential for your mental health.

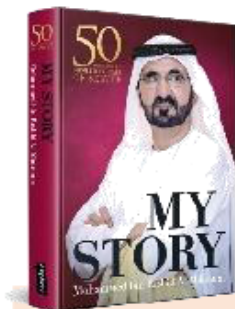


Make reading a fun activity. This will motivate you to engage with the text and embrace the activity as part of your daily life (rather than just your study/work life).

In fact, if you're reading this post right now, you're probably adding seconds, if not minutes to your brain's life.

*Did you know that just six minutes of reading is enough to reduce stress by 68%?!*

## Successful people are readers !



All successful people have one thing in common: they NEVER stop learning! That's why so many CEOs, smart leaders, and politicians read so frequently. There's a limit to how much time, money, and effort people are able to dedicate to more formal education. Reading greedily and as part of a devoted personal routine is the keystone of lifelong personal development. At the end of the day, reading bears a variety of tangible benefits for both the mind and the soul, and it is evident through the fact that most successful people prioritize reading as a means of professional and personal development.

*" Reading and knowledge are key to prosperity of nations."*

Sheikh Mohammed Bin Rashid

## INTERNET: BOTH SIDES OF THE COIN

*DR. FARHAN MALIK, ASSISTANT PROFESSOR, EMET*



Historically, the last century had been the most successful era in achieving technological advancements, from air transportation to fast communication, lighting up the globe to the broadcasting of high definition videos. The internet has connected the world in such a way that distances do not matter; this allowed us to control and communicate anywhere from any part of the world. Lately, everyone started to speak about the word "SMART"; any electronic device with intelligence, certain features and connected to internet named as smart, for instance, smartphone, smartwatch, smart home hub, smart light bulb, smart security camera etc.

Though this smartness of Artificial Intelligence has brought much comfort in our lives, however, there are many dimensions we have to be aware as we move on to adopt all these gadgets. The purpose of this short article is to highlight the other side of the picture, how the high dependence in these devices is affecting our social lives and changing human behaviours.

Communication could be done in real time; more complicated problems could be solved in a short time because of the availability of the ocean of information. Internet is helping people to connect from different parts of the world through electronic social media. Guidance about anything you want to do is available in detail, finding short time workplaces/tasks is also made possible via the internet which increased the chances of earning and develop skills even from the comfort of people's home. Use of paper currency is almost disappearing and making it more secure and handy to make any payments or transactions online and sharing of data and information via data links made it easy for everyone to make better decisions. The concept of the Internet of Things (IoT) is becoming famous among people for the efficient usage of their appliance for the smart operation of these gadgets along with the cost saving for the users by optimally controlling them. IoT is enhancing the productivity and profitability of businesses as it is providing free control and communication in an industrial environment for optimal operation of machines without any human intervention.

Owing to all the benefits and comfort the internet has brought in our lives, there are some other aspects which we could not overlook them. Personal information we share on the internet is putting our privacy at risk. Addiction to the use of the internet is bringing some social and mental health issues in our lives. Dependency on the internet for each business transaction

offers a high risk of loss of capital if the system collapses. Getting internet subscription is an additional burden on our monthly expenses. Family lives are sometimes affected by the increased use of the internet that in turns result in ignorance of serious family matters. Cybercrimes are becoming increasingly worrying issues in recent years and leading the need for new laws and regulations throughout the world for the use of the internet.

No doubt, access to the internet is going to be the fundamental right of everyone in the near future, however, we need to give awareness to the internet users for its more productive use and enforce laws to protect any abusive use of the internet. Internet would bring more employment opportunities for the people who are connected to this field of science. This article has been written to see the big picture of the technology we are having and where it is taking us.

## Our Industrial Partners



مبادلة  
MUBADALA



SIEMENS



مديد الإمارات  
emirates steel



OPITO



دولفين  
للطاقة  
DOLPHIN ENERGY



أدنوك  
ADNOC



هيئة مياه و كهرباء أبوظبي  
Abu Dhabi Water & Electricity Authority



FESTO



TRANSCO  
شركة أبوظبي للنقل و التحكم  
Abu Dhabi Transmission & Despatch Company



مطارات أبوظبي  
ABU DHABI AIRPORTS



ATIC  
Advanced Technology Investment Company



EGA  
الإمارات العالمية للألمنيوم  
EMIRATES GLOBAL ALUMINIUM



مؤسسة الإمارات للطاقة النووية  
Emirates Nuclear Energy Corporation



GAL  
GLOBAL AEROSPACE LOGISTICS, LLC



AMMROC  
المركز العسكري المتقدم  
للصيانة والإصلاح والصعرة  
ADVANCED MILITARY  
MAINTENANCE REPAIR  
OVERHAUL CENTER



TOTAL



DE LORENZO  
Engineering Training Station



الحلول والخدمات التوربينية لصناعة الطيران  
TURBINE SERVICES & SOLUTIONS  
AEROSPACE



Arabian Power Company



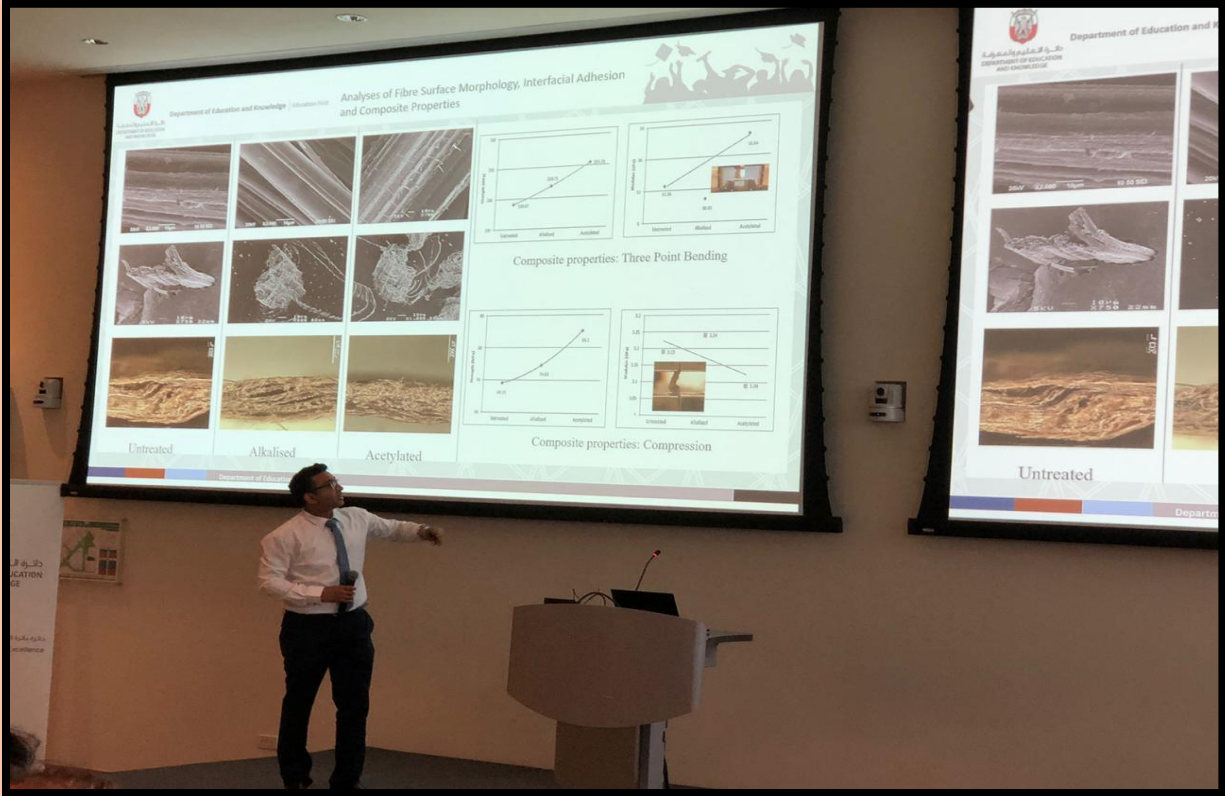
شركة الفجيرة آسيا للطاقة  
FUJAIRAH ASIA POWER COMPANY  
الفجيرة إن تو أو أند إم كومباني  
FUJAIRAH F2 O & M COMPANY

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DEPARTMENT OF EDUCATION AND KNOWLEDGE (ADEK)  
**THE ANNUAL "ADEK AWARD FOR RESEARCH EXCELLENCE" (AARE)**  
**RESEARCH CONFERENCE**  
 New York University, Abu Dhabi

Dr. Saud Aldajah, Dr. Mohammad AlHaik & Dr. Mohammad Kabir from EMET Department participated in the annual "ADEK AWARD FOR RESEARCH EXCELLENCE" (AARE) RESEARCH CONFERENCE and presented a project progress titled "Agro-waste based natural fiber composites as construction material" on 2<sup>nd</sup> May 2019 at conference center, New York University Abu Dhabi (NYUAD).



**Dr. Mohammad Kabir at NYUAD**

## WELCOME ON BOARD

**EMET FAMILY PROUDLY WELCOMES NEW STAFF MEMBER**

**RASHID ALNAQBI**






Rashid Alnaqbi is a graduate from Ohio University, USA with a degree in Mechanical Engineering. He recently joined Abu Dhabi Polytechnic as a Lab Specialist.

**EMET Department Newsletter  
Abu Dhabi Polytechnic  
Institute of Applied Technology**

**Mohamed Bin Zayed City  
Abu Dhabi**

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