

Jordan Section

Mousa AL-Akhras

Section Vitality

Date of last Section elections: DEC 2023.

Date of next elections (Oct- Nov 2025: Tentative)

Do you have the practice of Vice-Chair becoming the next Section Chair: No. But this is an option.

Section ExCom meetings

Answer:

Year 2022: 9/2/2022, 29/3/2022, 1/5/2022, 1/7/2022, 10/9/2022, 12/11/2022

Year 2023: 10/2/2023, 1/4/2023, 20/6/2023, 23/8/2023, 10/10/2023, 20/12/2023

Year 2024: 15/1/2024, 19/2/2024, 6/3/2024, 21/4/2024, 2/7/2024, 4/8/2024, 12/9/2024

Activities to Increase or Retain Membership:

We encourage our eligible members to apply for senior membership as statistics show senior members retention rate is higher than members retention rate.

Latest statistics showed we have a total of 2563 members of different grades.

The newly formed SIGHT group also attracted 40 members.

With IEEEExtreme coming soon, also many new student members recently joined.

Students

Student Branches (SB)

1. Al Al-Bayt University (AABU)
2. Al-Ahliyyah Amman University (AAU)
3. Al-Balqa Applied University (BAU)
4. Al-Balqa Applied University-Center (BAU-Center)
5. Al-Huson University College (HUSON)
6. Al-Hussein Bin Talal University (AHU)
7. Al-Hussein Technical University (HTU)
8. Al-Zaytoonah University of Jordan (ZUJ)
9. Applied Science University (ASU)
10. German Jordanian University (GJU)
11. Hashemite University (HU)
12. Jordan University of Science and Technology (JUST)
13. Mutah University (MUTAH)
14. Philadelphia University (PHU)
15. Princess Sumaya University for Technology (PSUT)
16. Tafila Technical University (TTU)
17. University of Jordan (JU)
18. University of Petra (UOP)
19. Yarmouk University (YU)
20. Zarqa University (ZU)

The newly formed or dissolved SBs:

1. Zarqa University - Recently formed

Jordan Students and Young Professional Congress is scheduled on 12/10/2024 and is organized by the University of Jordan Student Branch (<https://www.facebook.com/profile.php?id=61561193372453>)

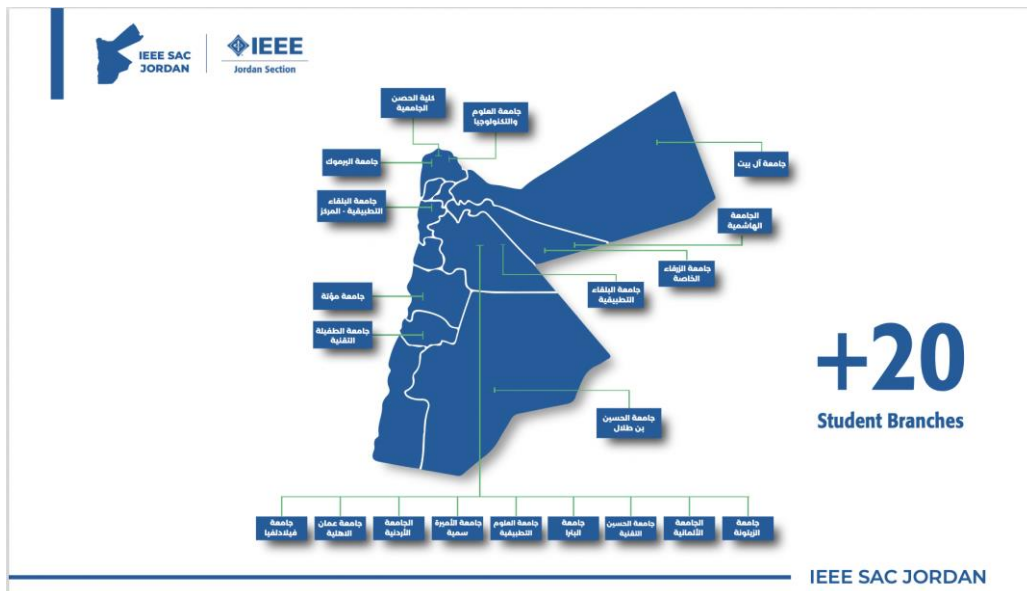
The following diagram summarizes the student branches and different societies:

No.	Student Branch	WIE	SIGHT	AESS	APS	CS	CIS	COMS	EMBS	IAS	PES	IES	SPS	RAS	Eng. M	TEMS	CT	TOT
1	Al Al-Bayt University (AABU)																	2
2	Al-Ahliyyah Amman University (AAU)																	0
3	Al-Balqa Applied University (BAU)							*		**	**		*					7
4	Al-Balqa Applied University-Center (BAU-Center)																	1
5	Al-Huson University College (HUSON)																	2
6	Al-Hussein Bin Talal University (AHU)																	1
7	Al-Hussein Technical University (HTU)																	0
8	Al-Zaytoonah University of Jordan (ZUJ)							*					*					1
9	Applied Science University (ASU)																	0
10	German Jordanian University (GJU)																	8
11	Hashemite University (HU)									*	*							5
12	Jordan Uni. for Science and Technology (JUST)																	6
13	Mutah University (MUTAH)																	3
14	Philadelphia University (PHU)																	3
15	Princess Sumaya University for Technology (PSUT)																	5
16	Tafila Technical University (TTU)																	5
17	University of Jordan (JU)																	8
18	University of Petra (UOP)																	1
19	Yarmouk University (YU)																	8
20	Zarqa University (ZU)																	0
		11	3	3	1	13	2	5	4	5	9	1	2	8	1	1	1	66

Star/double stars indicates a joint student chapter/affinity group.

Red circles indicate newly formed student chapter/affinity group.

Geographical distribution



Selected Student Branches Activities

The Interview – Philadelphia University



From Venus to Universe – Al-Balqa Applied University (BAU) - Faculty of Engineering Technology



National Technology Parade - NTP المهرجان الوطني للتكنولوجيا – The University of Jordan



CS - Al Al-Bayt University (AABU)



CS -Tafila Technical University (TTU)



IEEE PITCHINNO - The University of Jordan



Maze Solver Robot Contest 2024 – Hashemite University



Please visit the section Facebook page for the more details about these activities:

<https://www.facebook.com/groups/IEEEJordanSection>

Affinity Groups

We have four Affinity Groups:

- Life Members Affinity Group (LMAG)
- Women in Engineering (WiE)
- Young Professional (YP).
- The Special Interest Group on Humanitarian Technology (SIGHT)

Life Members Affinity Group (LMAG) selected activities

Celebrating the IEEE Jordan section’s 25th anniversary in a meeting including life members and section’s ExCom Members

Honoring the life members (or their representatives) for their great service to the profession in Jordan during the annual meeting



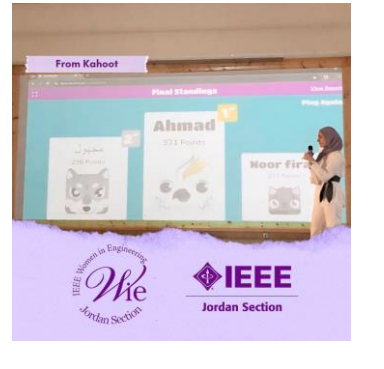
Women in Engineering (WiE) Selected activities

WIE Open day in July 2024

The IEEE-Jordan Section WIE Open Day 2024 was held on July 20th, 2024 to celebrate the IEEE WIE Day. The event was attended by a large number of female engineers from across Jordan and various sectors. We were honored by the presence of engineers and professors from different fields. The event was under the patronage of Eng. Amani Al-Azzam, Secretary General of the Ministry of Energy and Mineral Resources, who represents a success story of a Jordanian woman engineer with extensive experience in the energy sector over many years.

Our event featured special segments highlighting the activities, successes, and achievements of Jordanian female engineers in this field. One of the main highlights was success stories of Jordanian engineers who have achieved remarkable success in their fields, holding senior managerial positions that reflect their leadership and planning capabilities. The event also included a workshop, a coffee talk to discuss the challenges that face women in engineering and their solutions, a discussion panel about the WIE_Jordan mentorship program activities, and students’ teacher research program activity (STAR) for school girls delivered by engineers from Jadara company.





WIE Jordan Section has received
"The Region 8 Best Affinity Group of the Year Award in 2023"



IEEE-Jordan Section WIE AG
Active members in 2024

Grade	Count
Graduate Student Member	6
Life Senior	1.0
Member	38
Senior Member	3.0
Student Member	572
Total	620

Young Professional (YP) Selected Activities
28/5/2024



21/9/2024 Mentoring Meet Program

The Special Interest Group on Humanitarian Technology (SIGHT) Selected Activities



"MARCH"

"Advancing Technology For Humanity"



Ramadan Orphans Ifta



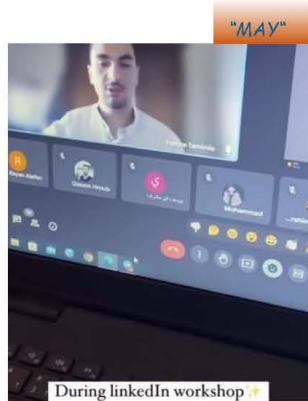
GHT Day 2024



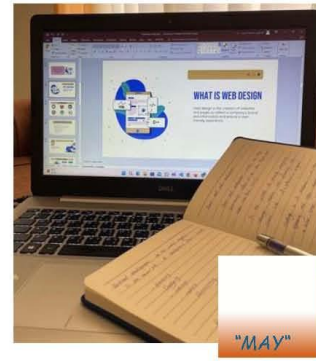
1st International Conference on Aviation, Robotics & AI Amman Arab University



Invitation to the Jordan 12 Closing Ceremony



During linkedIn workshop LINKEDIN Mastery Wo



Web Design Workshop



JIMEX Exhibition 2024



Sustainability and Humanitarian Projects with Astronomical Course



IEEE Petra University Day



Crafting Your Career Event





Robotic Hand



Jordan Industrial Company visit



IEEE SIGHT JS at Al Balqa University Career

About The Trainer

Sereen Al-Shalabi is an internationally certified e-commerce and artificial intelligence trainer with over 10 years of experience in importing from China and retail trade. She has trained more than 1,500 students worldwide and supervises over 500 successful online projects. Sereen has helped many individuals build their own businesses and achieve additional income from home.

VIP Professional Co



"SIGHT'S VIRTUAL



PARTICIPATION IN CONFERENCE



PARTICIPATION IN Dot Cyber Summit 2024



MATLAB WORKSHOP

Chapters

List of Chapters and SB Chapters in your Section, the newly formed or dissolved Chapters, if any since the last meeting reporting. Indicate how many have reported on time and received rebate. Highlight some of the activities.

List of chapters:

- Jordan Section Chapter, EMB18
- Jordan Section Chapter, IA34
- Jordan Section Chapter, RA24
- Jordan Section Jt Chap, CIS11/C16
- Jordan Section Jt Chap, PE31/DEI32
- Jordan Section Jt. Chapter, SP01/COM19

List of students' chapters and affinity groups

1. Al al-Bayt University, C16
2. Al al-Bayt University, WIE
3. Al-Balqa Applied University - Center, C16
4. Al-Balqa Applied University, SIGHT
5. Al-Balqa Applied University, AES10
6. Al-Balqa Applied University, SP01//COM19
7. Al-Balqa Applied University, PE31// IA34
8. Al-Balqa Applied University, C16
9. Al-Balqa Applied University, RA24
10. Al-Balqa Applied University, WIE
11. Al-Huson University College, WIE
12. Al-Huson University College, SIGHT
13. Al-Hussein Bin Talal University, C16
14. Al-Zaytoonah Univ Of Jordan, SP01/COM19
15. German Jordanian University, C16
16. German Jordanian University, CT08
17. German Jordanian University, EMB18
18. German Jordanian University, IA34
19. German Jordanian University, IES
20. German Jordanian University, Eng. Managment
21. German Jordanian University, TEM14
22. German Jordanian University, WIE
23. Hashemite University, C16
24. Hashemite University, EMB18
25. Hashemite University, PE31/IA34
26. Hashemite University, RA24
27. Hashemite University, WIE
28. Jordan University of Science & Technology, C16
29. Jordan University of Science & Technology, EMB18
30. Jordan University of Science & Technology, RA24
31. Jordan University of Science & Technology, PE31
32. Jordan University of Science & Technology, IA34
33. Jordan University of Science & Tech, WIE
34. Mutah University, C16

35. Mutah University, PE31
36. Mutah University, WIE
37. Philadelphia Univ, C16
38. Philadelphia Univ, PE31
39. Philadelphia Univ, RA24
40. Princess Sumaya University for Technology, WIE
41. Princess Sumaya University for Technology, C16
42. Princess Sumaya University for Technology, COM19
43. Princess Sumaya University for Technology, PE31
44. Princess Sumaya University for Technology, RA24
45. Tafila Technical University, C16
46. Tafila Technical University, SIGHT
47. Tafila Technical University, PE31
48. Tafila Technical University, RA24
49. Tafila Technical University, WIE
50. University of Jordan, AES10
51. University of Jordan, AP03
52. University of Jordan, C16
53. University of Jordan, COM19
54. University of Jordan, PE31
55. University of Jordan, RA24
56. University of Jordan, WIE
57. University of Jordan, CIS11
58. University of Petra, CIS11
59. Yarmouk Univ, COM19
60. Yarmouk Univ, PE31
61. Yarmouk Univ, RA24
62. Yarmouk University, C16
63. Yarmouk University, EMB18
64. Yarmouk University, IA34
65. Yarmouk University, WIE
66. Yarmouk University, AES10

Jordan Section Chapter, EMB18 Events Summary

22nd International Conference on Research and Education in Mechatronics (REM 2024): Technically co-sponsored by IEEE-EMBS, IEEE-RAS, IEEE-IAS Jordan Chapters in IEEE Jordan Section (Sep 24-26, 2024, Dead Sea, Jordan)



BME Alumni day (30/5/2024, Auditorium C, GJU)



3D Printing Workshop (25.04.2024, King Hussein Business Park)



Women's' Day (06.03.2024. Auditorium G, German Jordanian University)



Jordan Section Chapter, IA34 Events Summary

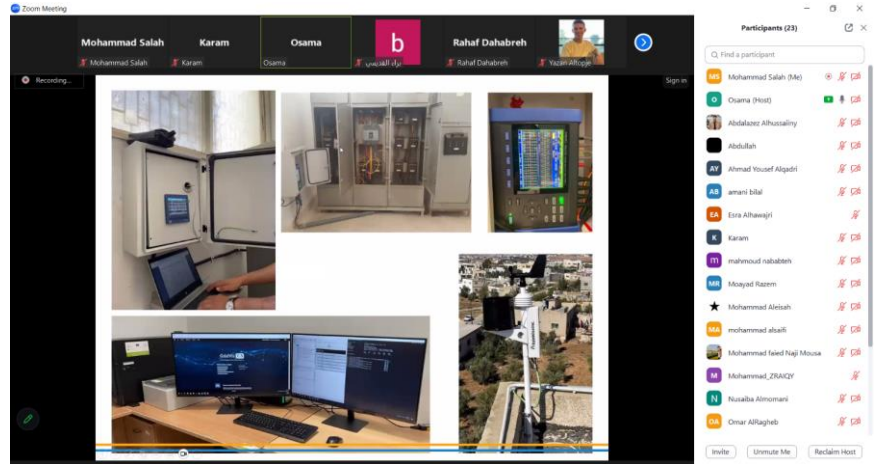
1. **Organizing a panel discussion** in (4/3/2024) titled (Energy Efficiency and Management in Industrial Sector)" by Eng. Maen Ayasrah of Jordan chamber of Industry, Eng. Anas Abdallah of Green Environment for Information Technology Company, and Eng. Abdallah Bdair of National Energy Solutions Company, HTU, Amman, Jordan. (<https://events.vtools.ieee.org/m/409692>).

Energy cost can significantly impact the final cost of a product across various industries. Overall, energy costs play a critical role in shaping the pricing dynamics of products sold globally, which impacts a product's competitiveness. This is especially important in Jordan, as energy prices are high, and are a major portion of the final cost of a product. One strategy to combat this issue is by applying energy efficiency measures in the industrial process and site. Experts have been invited for a panel discussion, to introduce the problem and solution.



2. **Organizing a virtual lecture** in (7/5/2024) titled with “The Effect of Non-Linear Industrial Loads on Renewable Energy Design” by Dr. Osama Saadeh of German-Jordanian University, Amman, Jordan. (<https://events.vtools.ieee.org/m/419927>).

As most industrial loads are non-linear in nature, power quality in industrial facilities is a major issue. Without solving these issues, the full potential of renewable energy cannot be realized. In this lecture, power quality considerations that are relevant to the design of renewable energy resources in the presence of non-linear loads will be presented and discussed.



3. **Technical and Financial Sponsorship to the 11th National Technology Parade** in (14/5/2024), University of Jordan, Amman, Jordan. (<https://events.vtools.ieee.org/m/419954>). The link for the 11th NTP is here (<https://ntp11.netlify.app/>) and (<https://www.facebook.com/NTPJo/>).



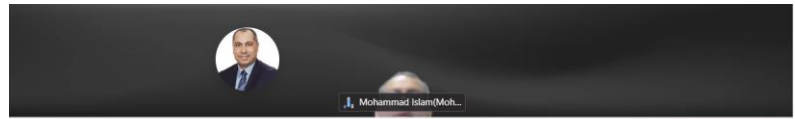
4. **Technical Sponsorship to the Mechatronics Systems Design, Modeling, and Control Track** in the 22nd International Conference on Research and Education in Mechatronics (REM) within the period (24-26/9/2024), Dead Sea, Jordan. (<https://events.vtools.ieee.org/m/419960>)



5. **Organizing a virtual keynote speech** in (25/9/2024) titled with “Non-Contact Sensing in Automotive Applications – A Perspective of Robustness and Reliability” by Dr. Mohammad Islam of Halla Mechatronics, MI, USA. (<https://events.vtools.ieee.org/m/436612>).

The keynote speech was part of the 22nd International Conference on Research and Education in Mechatronics (REM), Dead Sea, Jordan.

This presentation talks about sensor technologies used in high performance automotive applications. An example application considering motor shaft position, steering input torque and column position sensing will be discussed. Various topologies will be discussed in terms of advantages and disadvantages. Potential sources of errors due to electromagnetic origins and mechanical stacks and their impact on the overall system will be discussed. More details can be found in this link (<https://rem2024.gju.edu.jo/speaker-detail-2.html>).



Immunity Testing



- A radiating loop is typically used to generate the magnetic field disturbances exposed to the DUT
- Radiated field disturbances are generated in different frequency ranges to test the robustness



Magnetic Field Immunity Setup



Radiated Immunity Setup



Jordan Section Chapter, RA24 Events Summary

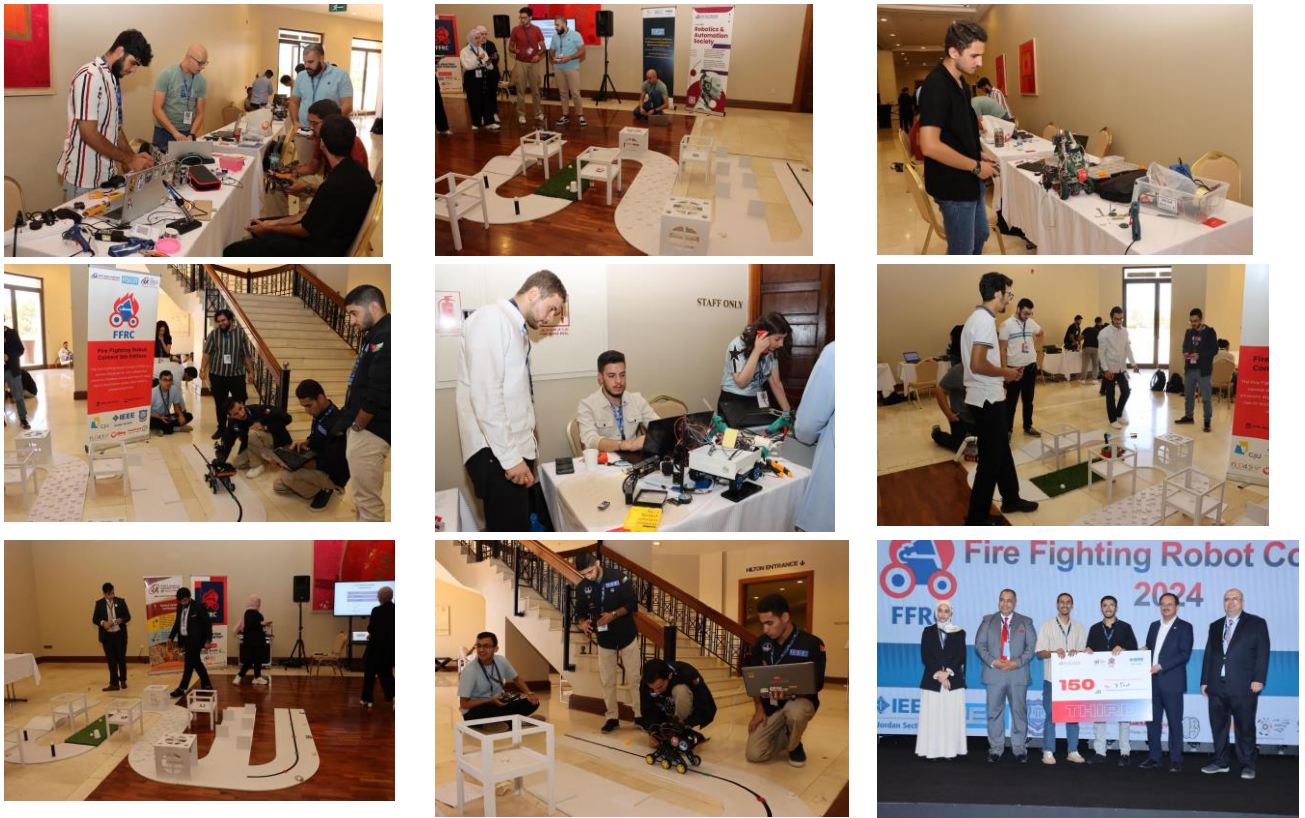
Technical Sponsorship of the 6th Fire Fighting Robot Contest (FFRC)

We are thrilled to announce the successful organization of the fire-fighting robots competition by IEEE RAS Jordan during the 22nd International Conference on Research and Education in Mechatronics (REM 2024), held at the Dead Sea!

The event brought together 27 student teams from 15 Jordanian universities, all showcasing innovative robotic solutions designed to tele-operated and autonomously detect and extinguish fires, as well as rescue people in hazardous situations. The competition highlights the growing importance of robotics in emergency response and public safety, offering a glimpse into the future of technology-driven solutions that can save lives, protect property, and assist in rescue operations.

A huge congratulations to all the participating teams, and a heartfelt thank you to the IEEE Jordan Section team and volunteers for their hard work and commitment in making this event a resounding success!





Jordan Section Jt Chap, CIS11/C16 Events Summary

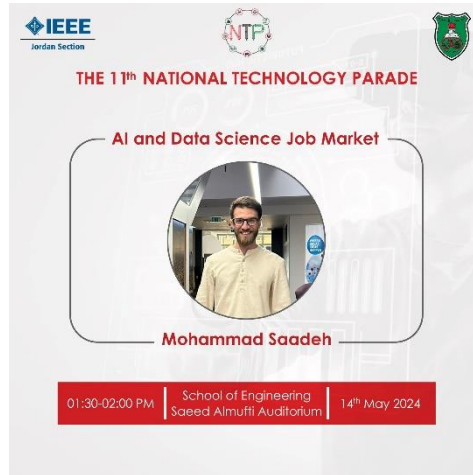
- The 11th National Technology Parade (Co-Organizer)
 - Helped in Organizing the venue and the activities at the 11th NTP at the University of Jordan
<https://ntp11.netlify.app/>



- Organized a keynote speech at the NTP delivered by Dr. Kostas karpouzis who has been hosted as part of the IEEE CS Distinguished Visitor Program



- Organized a talk by Mr. Mohammad Saadeh titled as “AI and Data Science Job Market”



- IEEE Computer Society Keynote Speech as part of DVP program
 - Title: AI/ML for games for AI/ML
 - Speaker: Dr.Kostas Karpouzis



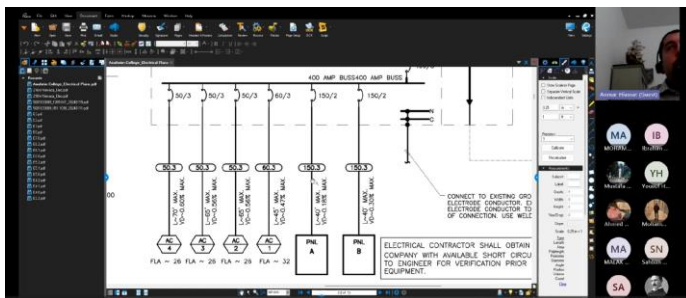
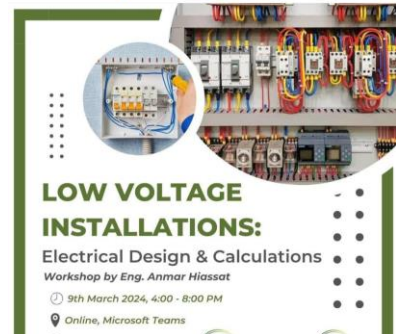
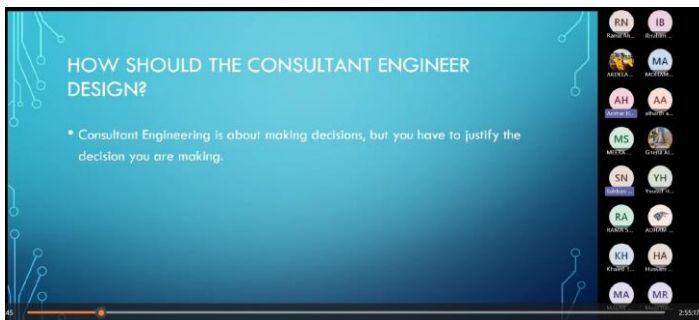
Jordan Section Jt Chap, PE31/DEI32 Events Summary

1. Online Technical Workshop “Low Voltage Installations: Electrical Design and Calculations”
 - a. Objective: The workshop aims to provide participants with principles and practical knowledge to design electrical low voltage installations in commercial and residential buildings.
 - b. Presenter: Engineer Anmar Hiassat, A senior professional electrical and design engineer in Texas, USA
 - c. Date: 9th March 2024, 16:00 – 20:00
 - d. Platform: MS teams
 - e. Participants: ~ 80 undergraduate students and professional engineers



Are you looking for a chance to improve your knowledge of electrical power systems? Look no further, this is for you! Join us for our online interactive workshop, "Low Voltage Installations: Electrical Design and Calculations", presented to you By Engineer Anmar Hiasat, A senior professional electrical and design engineer in Texas, USA, hosted by IEEE Jordan PES Chapter and IEEE UJ PES Student Chapter! Stay tuned for more details soon and fill the form in our bio to secure your seat!

#ieeer #ieeepes #ieeepesujsc



2. Technical Competition “Time of Use (ToU) electricity tariffs - Awareness Video Competition”.
 - a. Objective: IEEE student members are requested to create clear and informative 5-min video to demonstrate by using real-life examples the importance of Time-of-Use Electricity Tariffs from the perspective of consumers and electricity grid.
 - b. Competition Start Date: 4/5/2024
 - c. Competition status: under progress

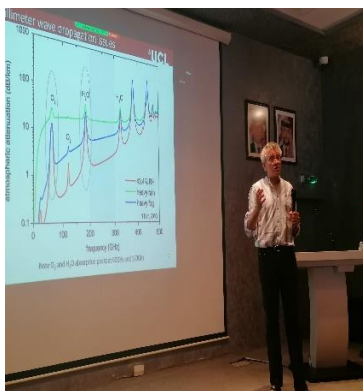
Jordan Section Jt. Chapter, SP01/COM19 Events Summary

- 1- Wireless Data Transfer Rate Measurement using Deep Learning' competition, which was organized in collaboration with the IEEE Jordan ComSoc Chapter and MathWorks
Thursday, September 5th, at 12:30 PM in the Loay Shammout Auditorium at Princess Sumaya University for Technology.

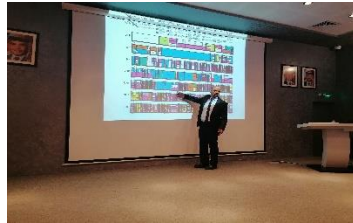


2- Lecture: New wireless and mobile systems: from GHz to THz spectrum, challenges and opportunities.

- Guest Namre : Dr. Izzat Darwazah
- Thursday, 15th August 2024, Time: 11:00 – 12:00 pm, @ Luay Shammout Auditorium, PSUT.



- 3- Lecturer: "UAVs for Small Cell HetNets"
 • Distinguished Lecturer: Dr. NIZAR ZORBA
 • Sunday, 21st July 2024, Time: 12:30 – 1:30 pm, @ Luay Shammout Auditorium, PSUT.
 • Wednesday, July 27 2024, Time 10:00 am to 11:00 am , Seminar Room Building 19, AlBalqaa Applied University.

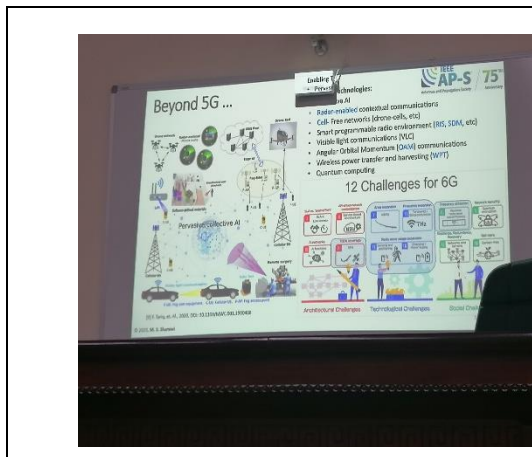


- 4- Distinguished Lecturer: Dr. **Mohammad S. Sharawi**
 First lecture Title: "The Dawn of Multi-function, Multi-Standard, Shared Aperture Antenna Systems"

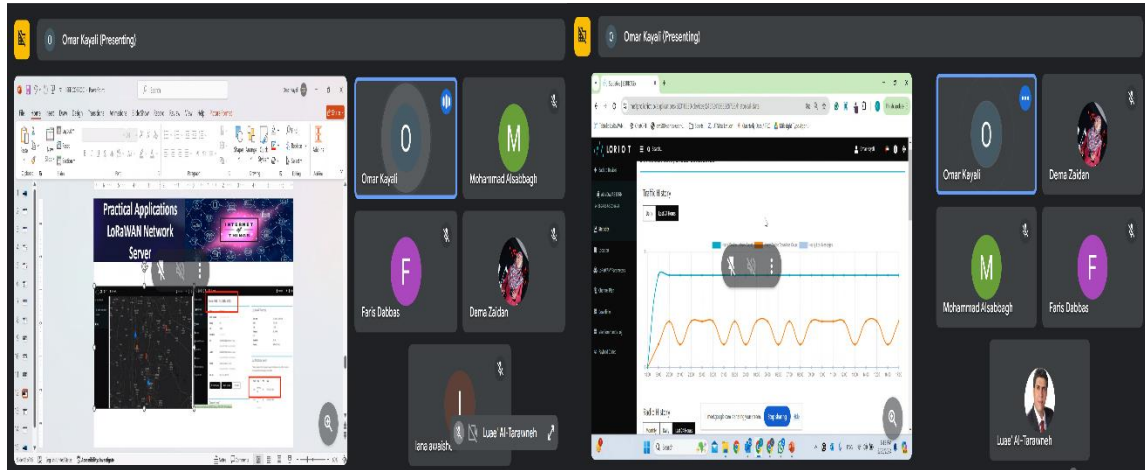
- Date: Tuesday, 16th July 2024, Time: 11:00 am.
 Venue: Engineering School /Small Auditorium at the University of Jordan (UoJ)

Second Lecture Title: "Active Integrated Antennas: Fundamentals and Applications"

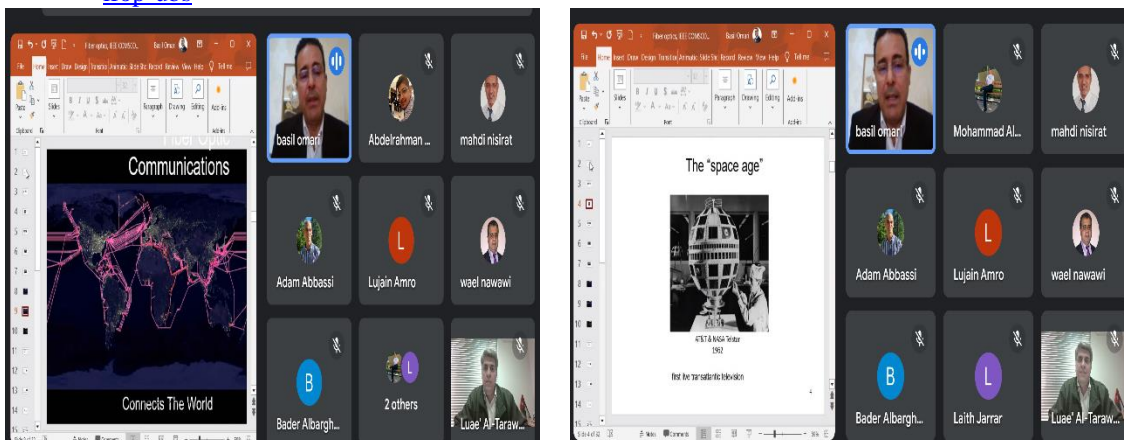
- Date: Thursday, 18th July 2024, Time: 11:00 am.
 Venue: Hijjawi Faculty of Engineering Technology/ Wissam Bushnaq Hall at Yarmouk University



- 5- Lecture: The IoT Revolution: A New Era of Smart Connectivity.
- Date: 25/5/2025, Saturday, From 5:00 am to 6:00 Pm, Via Google meeting link: <https://meet.google.com/xfv-onzj-zmb>



- 6- Fiber Optic Technology: Fundamentals, Applications, and Opportunities in the Jordan Market.
- Date: Saturday, March 30, 2024, Meeting Time: 4- 5 PM, Meeting Link: <https://meet.google.com/aox-ifop-ubs>



Industry

The following is a summary of the activities and initiatives:

1. **Review of Agreement** with SAM Engineering. This took several rounds of review.
2. **Preparation of a proposal** for competition for students in the power sector to make a video for “Time of Use”.
3. **Jobs / employment:** Two job announcements were made and hundreds of CV were received and sent to concerned parties.
4. **Mentorship program:** preparation and submission of mentorship program that was later on adopted by the YP.
5. **Coordinating with Companies:** started coordination with matchy-matchy-ltd company from the UK. This will be directed towards matching local students who want to pursue their graduate studies in the UK. A series of seminars will be conducted at universities during the next semester.
6. **Speaker at conferences.**
7. **Writing Article on LinkedIn** to help students.
8. **Attending events and open days.**
9. **IEEE Region 8 Action for Industry (AII) Committee – SIA Meeting online attendance**

10. **Review of CVs and sending CVs for potential employees:** this is done periodically and whenever engineers ask for it.



Open Day, IEEE GJU student Branch



IEEE, WIE at GJU 06th Oct, 2024



With IEEE HTU Student Branch, Sept 2024



IEEE ExCOM Meeting, Farewell party to Prof Abanda. Aug 2024



With IEEE YP at Jordan CIGRE Conference, June 2024



Speaker at IEEE, YP panel discussion about Artificial Intelligence.



June 2024, Jordan Engineering Conference for Electric Engineers



March 2024, With ExCom members

Local Groups

We have currently four local groups as follows:

IEEE Jordan AI, Machine Learning, Deep Learning, Computer Vision and LLM Group



Mousa Al-Akhras



Hisham Elmoaqet



IEEE Jordan Section Cybersecurity Group



Iman Almomani



Sufvan Almaiali



IEEE Jordan Chip Design Group



Dheya Mustafa



Ruba Alkhasawneh



IEEE Jordan Young Professionals Climate and Sustainable Initiatives Group



Mustafa Aqrabawe



Rashed Albarakeh

Diversity, Equity and Inclusion

We strongly encourage DEI in all our activities

Activities since the last report

Section activities are reported in vTools and also shared in our social media channels which is open for members and non-members

<https://www.facebook.com/groups/IEEEJordanSection>

<https://www.linkedin.com/company/ieee-jordan-section/?viewAsMember=true>

Several visits were conducted to the Universities in different Jordanian cities. These visits greatly improved the communication and collaboration between the IEEE Jordan Section and the Universities:



2024_01_09 Isra University



2024_02_18 Hashemite University (HU)



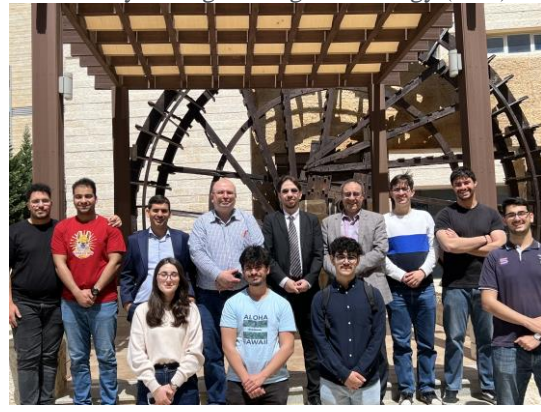
2024_02_25 Yarmouk University (YU)



2024_03_09 Al- Balqa' Applied University (BAU) -
The Faculty of Engineering Technology (FET)



2024_03_25 Princess Sumaya University for Technol-
ogy (PSUT)



2024_04_03 German Jordanian University (GJU)



2024_05_06 Amman Arab University



2024_05_12 Al-Huson University College (HUSON)



2024_05_13 Al Al-Bayt University (AABU)



2024_05_15 University of Petra (UOP)



2024_05_18 Philadelphia University (PHU)



2024_05_20 Al-Hussein Bin Talal University (AHU)



2024_05_20 Tafila Technical University (TTU)



2024_05_23 Al-Ahliyyah Amman University (AAU)



2024_05_26 Al-Zaytoonah University of Jordan (ZUJ)



2024_08_21 Al-Balqa Applied University-Center (BAU-Center)



2024_09_30 Mutah University (MUTAH)

Planned activities

Each technical society has a series of planned event that includes workshops, seminars, invited talks, etc. that were discussed in the annual meeting.

The section is currently engaged in providing technical co-sponsorship for the below conferences in 2024:

- JIBEC The Second Jordanian International Biomedical Engineering Conference
27- 28 November, 2024 <https://www.jeaconf.org/JIBEC>
- IJCC: the 2024 International Jordanian Cybersecurity Conference (IJCC) - December 17-19, 2024
<https://www.jeaconf.org/ijcc24>
- ACIT The International Arab Conference on Information Technology (ACIT)
December 10-12, 2024 <https://acit2k.org/ACIT/>

How Region 8 can be of help to your Section, members, and activities

Provide more funding for SIGHT projects

By increasing the membership value (e.g. offering more free online courses with certificates to the members, especially from the industry)

Any other issues of interest

I like to have a platform to search for all the awards given to all the OUs within the section.

I suggest to provide a dropdown list of affiliations so that we have consistent naming of the affiliation. Currently members enter free text which may cause members belonging to the same institute to enter slightly different names. This complicates getting accurate statistics.