

## Western Saudi Arabia Section

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### Section Vitality

Western Saudi Arabia (WSA) Section ExCom meetings were held monthly or bi-monthly based on the need. Several Section, Society, Affinity Groups social media events were called for volunteers to encourage members to take parts in running their societies and chapters. These activities were carried out to retain and recruit members.

List the activities carried out to retain and recruit members and the results obtained

- 1 - October 2021 [Call for Volunteers] [R80053, YP80053, WE80053]
- 2 – October 2021 [IEEE MESYP 2021 Steering Committee Meeting] [YP80053, YP80057, STB13531, STB94941]
- 3 - 22 Aug 2021 07:30 PM [Taif University, MoU and Meeting] R80053
- 4 - 3/6/2021 20:30 [IEEE WSAS - Technical Panel Meeting - Arabic Engineering Dictionary Project: Western Saudi Arabia Section]
- 5 – 06 Jan 2021 06:56 PM [Conference administration meeting: Western Saudi Arabia Section]
- 6 – 08 Jan 2021 08:00 PM [Website development (technical meeting): Western Saudi Arabia Section]
- 7 – 16 Jan 2021 01:00 PM [Student Activities Meeting with KAU Student Branch - Female: Western Saudi Arabia Section]
- 8 - 9/8/2021 21:00 [Student Activities meeting with UJ Student Branch: Western Saudi Arabia Section]

### Students

List of Western Saudi Arabia registered Student Branches (SB) (None are newly formed)

- 1 - Effat University (STB18931)
- 2 - International Technical College at Jeddah-Laureate (STB11462)
- 3 - Islamic University of Medina (STB11739)
- 4 - King Abdulaziz University - Male (STB20381)
- 5 - King Abdulaziz University-Female (STB03581)
- 6 - King Abdulaziz University-Rabigh (STB10134)
- 7 - King Abdullah University of Science & Tech (STB05071)
- 8 - King Khalid Univ (STB64981)
- 9 - Taibah University (STB03291)
- 10 - Taif University (STB13531)
- 11 - Umm Al-Qura University (STB03791)
- 12 - University of Bisha (STB50294)
- 13 - University of Business & Technology (STB10017)
- 14 - University of Tabuk (STB10047)
- 15 - Yanbu Industrial College (STB06101)

List of selected student meetings held, and WSA Section activities addressed to Students and YP.

- 1 - 10/1/2020 19:00 [IEEE X TREME WORKSHOP: King Abdulaziz University-Female]
- 2 - 10/3/2020 20:00 [اكتشف الحياة الجامعية: King Khalid Univ]
- 3 - 10/4/2020 10:00 [Introduction to the IEEEExtreme Programming Competition 14.0: University of Jeddah]
- 4 - 10/6/2020 17:30 [IEEE WSAS - Student Activities Meeting - regarding Section-wide competition: Western Saudi Arabia Section]
- 5 - 10/6/2020 17:55 [IEEEDAY: King Abdulaziz University - Male]
- 6 - 10/15/2020 3:00 [IEEE X TREME competition: King Abdulaziz University-Female]
- 7 - 10/15/2020 16:45 [مكتبة الهندسة بلسان عربي: Western Saudi Arabia Section]
- 8 - 10/21/2020 20:00 [IEEE PRE-XTREME: King Abdulaziz University - Male]
- 9 - 10/23/2020 2:30 [IEEEEXTREME PROGRAMMING COMPETITION 14.0: University of Jeddah]
- 10 - 10/24/2020 17:57 [IEEE Xtreme: King Abdulaziz University - Male]

- 11 - 11/14/2020 17:00 [Decision Making: King Abdulaziz University-Female, WIE]
- 12 - 11/14/2020 18:00 [كيف تكون مهندساً محترفاً في سوق العمل: King Khalid Univ]
- 13 - 11/15/2020 20:00 [IEEE Membership: University of Jeddah]
- 14 - 11/21/2020 16:00 [Time Management: King Abdulaziz University-Female, WIE]
- 15 - 11/28/2020 16:00 [Xcode Workshop: King Abdulaziz University-Female, WIE]
- 16 - 12/5/2020 19:00 [Engineer from the field: King Abdulaziz University - Male]
- 17 - 12/11/2020 5:34 [WebEx and YouTube live stream testing: Western Saudi Arabia Section]
- 18 - 10/18/2021 14:30 [UJ Student Branch Q and A Meeting: Western Saudi Arabia Section]
- 19 - 1/16/2021 13:00 [Student Activities Meeting with KAU Student Branch - Female: Western Saudi Arabia Section]
- 20 - 1/22/2021 20:25 [Student Activities WebEx Training: Western Saudi Arabia Section]

### Affinity Groups

List of WSA Affinity Groups and SB AGs:

- 1 - Young Professionals (YP) Affinity Group (YP80053)
- 2 - Women in Engineering (WIE) Affinity Group (WE80053)
- 3 - Special Interest Group on Humanitarian Technology (SIGHT) - (SIGHT071)
- 4 - King Abdulaziz University-Female, WIE (SBA03581)
- 5 - Effat University, WIE

List of selected activities intended to support WSA Affinity Groups:

- 1 - 20 Oct 2020 04:00 PM [Evolutionarily Computation: Western Saudi Arabia Section Affinity Group, WIE]
- 2 - 07 Jul 2021 07:30 PM [Electrical Engineering vs Industrial Engineering: King Abdulaziz University-Female, WIE]
- 3 - 3/3/2021 9:00 [The role of scientific research in technical innovation: Western Saudi Arabia Section Affinity Group, WIE]
- 4 - 10/5/2021 20:00 [IEEE Day event: IEEE student branches: Western Saudi Arabia Section Affinity Group, WIE]
- 5 - 1/30/2021 16:00 [The World of Microcontrollers: King Abdulaziz University-Female, WIE]
- 6 - 2/6/2021 17:00 [What is ROS? King Abdulaziz University-Female, WIE]
- 7 - 2/11/2021 18:00 [WIE STAR program series - How to start your scientific career: Western Saudi Arabia Section Affinity Group, WIE]
- 8 - 2/11/2021 19:00 [Internet of Things: King Abdulaziz University-Female, WIE]
- 9 - 2/13/2021 17:00 [Cyber Security: King Abdulaziz University-Female, WIE]
- 10 - 2/20/2021 17:00 [Industry 4.0: King Abdulaziz University-Female, WIE]

### Chapters

List of Chapters and SB Chapters in your Section, the newly formed or dissolved Chapters, if any since the last meeting reporting (Oct 2020). Indicate how many have reported on time and received rebate. Highlight some of the activities.

List of Chapters and SB Chapters in Western Saudi Arabia Section:

- 1 - Jt. Chapter, MTT17/AP03 Microwave Theory and Techniques Society (MTT-S) / Antennas and Propagation Society (AP-S) (CH08767)
- 2 - Power & Energy Society (PES) - PE31 (CH08621)
- 3 - Photonics Society - PHO36 (CH08711) formerly Lasers and Electro-Optics Society (LEOS)
- 4 - Computer Society (CS) - C16 (CH08706)
- 5 - Electron Devices Society (EDS) - ED15 (CH08811)
- 6 - Technology and Engineering Management Society (TEMS) (CH08862)
- 7 - Nanotechnology Council - NANO42 (CH08864)
- 8 - King Abdulaziz University - Male, PE31 Power and Energy Society
- 9 - King Abdulaziz University-Female, C16 Computer Society (SBC03581A)

Selected activities:

- 1 - 06 Oct 2020 07:30 PM [معلومات وحقائق مغيبة عن اللغة العربية والسبق العربي في الهندسة والعلوم] [R80053, CH08706 & CH08862]
- 2 - 19 Oct 2020 04:00 PM [Intelligent Transportation Systems for Smart Cities] [CH08811]
- 3 - 15 Apr 2021 03:00 [Heat-induced Al-Si alloy for III-nitrides nanowires] [CH08711]
- 4 - 29 Apr 2021 03:00 PM [Giant clam inspired high-speed photo-conversion for ultraviolet optical wireless communication] [CH08711]
- 5 - 03 Mar 2021 04:00 PM [Performance and Debugging Analysis Tools. How can I check the performance of my code on CPUs and/or GPUs?] [CH08811]
- 6 - 27-29 Mar 2021 [The Fourth National Computing Colleges Conference (4th NCCC)] [R80053, YP80053, CH08706 & CH08862]
- 7 - 30-31 Mar 2021 [Women in Data Science Taif] [R80053, WE80053, YP80053, CH08706 & CH08862]
- 8 - 17 Aug 2021 [Machine Learning in Healthcare: When Low Sample Size is not a Limitation] [CH08811]

**Industry**

List the activities.

The following activities were carried out to foster relations with Industry and coordinated with Saudi Electricity Company Experts for IEEE students and members.

- 1 - 3/10/2021 14:45 [منظومة القوى الكهربائية: King Khalid Univ]
- 2 - 3/10/2021 15:00 [القوى الكهربائية وأنظمتها: King Khalid Univ]
- 3 - 3/16/2021 14:45 [الخطوط الهوائية والتأريض: King Khalid Univ]
- 4 - 3/17/2021 14:45 [محولات القدرة وأنظمة التوصيل والفصل: King Khalid Univ]
- 5 - 3/23/2021 14:45 [أنظمة الطاقة الشمسية: King Khalid Univ]
- 6 - 10/21/2021 9:00 [A visit to a technologies factory Event: King Abdulaziz University - Male]

**Activities since the last report**

List of Western Saudi Arabia Section activities that were carried out to improve members engagements and spread knowledge:

- 1 - 12/15/2020 19:30 [تجارب التعريب وتعريب العلوم الهندسية في أفق المشروع القومي الجامع: Western Saudi Arabia Section]
- 2 - 10/5/2021 11:00 [IEEEDAY: King Abdulaziz University - Male]
- 3 - 10/9/2021 20:00 [IEEE PRE-XTREME: King Abdulaziz University - Male]
- 4 - 3/8/2021 18:45 [AI Applications in Biomedical Engineering: King Abdulaziz University - Male]
- 5 - 3/8/2021 20:30 [Developing an IoT project step-by-step: Western Saudi Arabia Section]
- 6 - 1/23/2021 17:00 [Using robots in engineering: Western Saudi Arabia Section Affinity Group, WIE]
- 7 - 8/11/2021 19:10 [IEEEXtreme Introductory Webinar: University of Jeddah]
- 8 - 2/16/2021 19:30 [Can AI Read Our Emotions? University of Jeddah]
- 9 - 2/24/2021 15:00 [Let's hear the company! King Abdulaziz University - Male]
- 10 - 1/23/2021 17:00 [Speakers: King Abdulaziz University-Female]
- 11 - 1/24/2021 22:00 [Building Latency-Critical Datacenter Systems: Western Saudi Arabia Section Chapter, ED15]
- 12 - 1/30/2021 16:00 [Speakers: King Abdulaziz University-Female]
- 13 - 2/1/2021 19:30 [Convolutional Neural Network: Step-by-Step Workshop: University of Jeddah]
- 14 - 2/6/2021 17:00 [Speakers: King Abdulaziz University-Female]
- 15 - 2/11/2021 18:00 [WIE STAR program series - How to start your scientific career: Western Saudi Arabia Section]
- 16 - 2/24/2021 20:00 [A Scientific Research Journey on Marriage Through Technology in Saudi Arabia: University of Jeddah]
- 17 - 2/25/2021 16:30 [Arduino Workshop: King Abdulaziz University - Male]

18 - 2/25/2021 19:30 [IEEE WSAS - SAC Planning Meeting: Western Saudi Arabia Section]

19 - 2/28/2021 14:00 [Bridging model-based and data-driven methods for the characterization, analysis, and monitoring of biomedical signals: Western Saudi Arabia Section Chapter, ED15]

20 - 3/9/2021 19:00 [Introduction to Cyber Forensics: University of Jeddah]

### **Planned activities**

Future activities and initiatives in Western Saudi Arabia Section:

1 – November 2021 [IEEE YP Connecting Expert with Industry professional]

2 – December 2021 [IEEE Middle East Student and Young Professionals Congress 2021]

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

List of challenges we may face at Western Saudi Arabia Section:

1 – We may need more IEEE funds and free society membership for attract new joiners to IEEE.

2 – Ongoing challenge of registered existence and registration as non-profit organization for Students and Engineers in Saudi Arabia is still faced with related difficulties in handling finance issues.

### **Any other issues of interest**

We would welcome cooperating in co-organizing conferences and events with fellow IEEE R8 sections, we would like to welcome IEEE distinguished lecturer and pre-universities workshops.