



# Annual REPORT --- 2021



IEEE STUDENT BRANCH UET TAXILA

## TENURE DETAILS

### IEEE STUDENT BRANCH UET TAXILA

Following are the details mentioned that IEEE went through the TENURE 2021.

**REPORT TYPE:** ANNUAL

**YEAR REPORT:** 2021

#### GENERAL INFORMATION

<b>STUDENT BRANCH NAME</b>	University of Engineering and Technology, Taxila
<b>STUDENT BRANCH CHAIR</b>	MOHSIN JAVAID
<b>IEEE NUMBER</b>	97501878
<b>CONTACT NUMBER</b>	+92-314-5464521
<b>EMAIL ADDRESS</b>	<a href="mailto:mohsin.javaid@ieee.org">mohsin.javaid@ieee.org</a>
<b>NAME OF BRANCH COUNSELLOR</b>	PROF. DR. GULISTAN RAJA
<b>IEEE NUMBER</b>	90703261
<b>CONTACT NUMBER</b>	+92-312-9552563
<b>EMAIL ADDRESS</b>	<a href="mailto:gulistan.raja@uettaxila.edu.pk">gulistan.raja@uettaxila.edu.pk</a>
<b>TOTAL STUDENT MEMBER</b>	40
<b>TOTAL HIGH GRADE MEMBER</b>	70
<b>TOTAL STUDENT MEMBERS RECRUITED IN THE LAST 3 MONTHS</b>	Nil.
<b>TOTAL HIGH GRADE MEMBERS RECRUITED IN THE LAST 3 MONTHS</b>	Nil.

All information in the report is accurate to my belief and knowledge.



PROF. D. GULISTAN RAJA



MOHSIN JAVAID

## **ANNUAL EVENTS REPORT 2021**

### **About IEEE:**

The **Institute of Electrical and Electronics Engineers (IEEE)** is a professional association with its corporate office in New York City and its operations centre in Piscataway, New Jersey. It was formed in 1963 from the amalgamation of the **American Institute of Electrical Engineers** and the **Institute of Radio Engineers**. Today, it is the world's largest association of technical professionals with more than 420,000 members in over 160 countries around the world. Its objectives are the educational and technical advancement of electrical engineering, electronics engineering and allied disciplines. IEEE is composed of professional engineers, scientists, researchers and students. A chained network at different level is observed in IEEE, to which IEEE Student Branch at the local universities, is the most basic level.

### **About IEEE UET Taxila:**

IEEE Student Branch UET Taxila is one of the most well-reputed and most successful student branch of IEEE Islamabad Section. The student branch exhibits excellent performance, volunteerism and passion towards IEEE at each level.

We have two technical chapters namely IEEE Power and Energy Society (PES) and Consumer Electronics Society (CES) and Women in Engineering (WIE) Affinity Group at our student branch. Over 150 students are a part of the society as branch/university member and about 100 international members are included in the society. These include student members (graduates and undergraduates), faculty members and senior members.

IEEE UET Taxila arranged a bunch of events on branch, section, council and even regional level to help the students advance in the technology and keep pace with it. Students were engaged and empowered in the field of Science & Technology through various activities like seminars and technical workshops. This report encloses the details of the events in 2021.

# EVENTS AND ACTIVITIES



## Events Details:

### MEMBERSHIP DRIVE

To aware the students, IEEE SB UETT arranged an International Membership drive.

IEEE SB UET Taxila announced the Membership drive 2021 on 4<sup>th</sup> January 2021. The motive was to introduce students to the international membership of IEEE which had a 50% discount and its benefits. The procedure to create an IEEE account was shared with students followed by explanation of purchasing IEEE membership along with PES and WIE memberships.

IEEE Student Branch

IEEE PES  
Power & Energy Society\*

IEEE Women in Engineering  
We

MEMBERSHIP DRIVE

JOIN IEEE

Join World's Largest Professional Organization

IEEE SB  
UET TAXILA

REGISTRATION DEADLINE 1 WEEK

Some of the most popular Student benefits are:

- Google Apps@IEEE
- IEEE ResumeLab
- Humanitarian Program
- Professional Networking- IEEE memberNET
- Potentials Magazine
- Student Travel Grants

**Dr Gulistan Raja**  
Counselor-IEEE Student Branch  
UET Taxila

**For Further Information Contact**

Ahmar ul Haq: 03157798760  
Abdullah Akmal: 03058628336

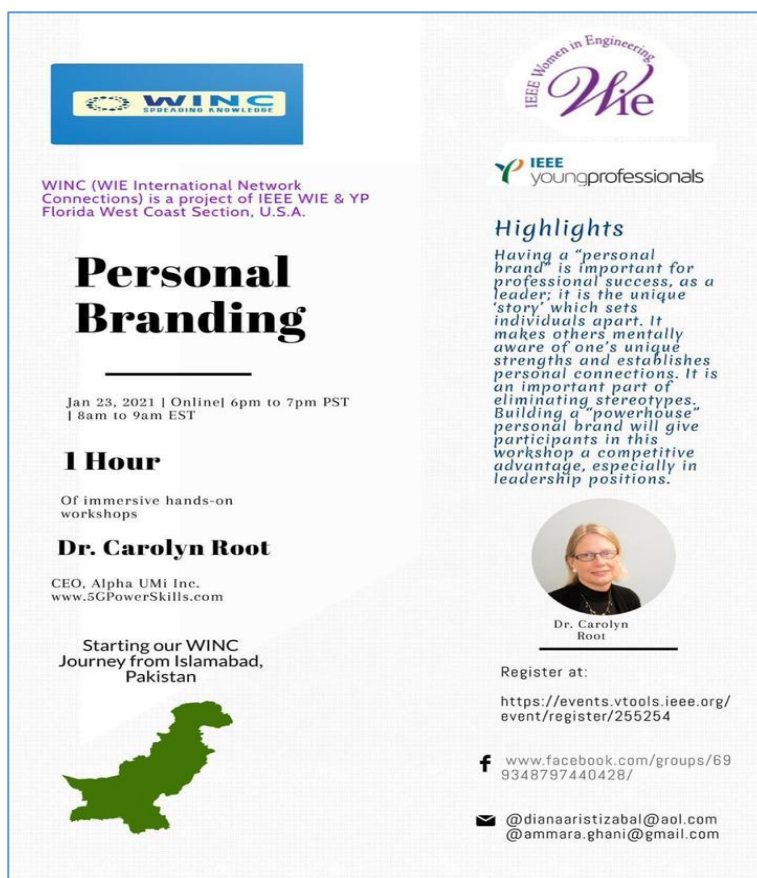
Figure 1: Poster for Membership Drive

## PERSONAL BRANDING

To make the Electrical and Electronics engineers especially Women in Engineering aware of the networking benefits around the world.

Team IEEE SB UET Taxila announced the launch of WINC (WIE International Network Connections), a project of IEEE WIE & YP Florida West Coast Section U.S.A to create a knowledge bridge between the U.S.A and Pakistan initially and expand network to other countries as well. Our goals were to spread knowledge among IEEE Members by arranging webinars and workshops, connect Electrical and Electronics Engineers especially women Engineers for networking and increase IEEE members around the world.

Starting our WINC journey from Islamabad, Pakistan by organizing workshop on "Personal Branding" by Dr. Carolyn Root, CEO Alpha UMi Inc



**WINC**  
SPREADING KNOWLEDGE

WINC (WIE International Network Connections) is a project of IEEE WIE & YP Florida West Coast Section, U.S.A.

**Personal Branding**

Jan 23, 2021 | Online | 6pm to 7pm PST  
| 8am to 9am EST

**1 Hour**

Of immersive hands-on workshops

**Dr. Carolyn Root**

CEO, Alpha UMi Inc.  
www.5GPowerSkills.com


Starting our WINC Journey from Islamabad, Pakistan

**IEEE Women in Engineering**  
*WIE*

**IEEE**  
youngprofessionals

**Highlights**

Having a "personal brand" is important for professional success, as a leader, it is the unique story which sets individuals apart. It makes others mentally aware of one's unique strengths and establishes personal connections. It is an important part of eliminating stereotypes. Building a "powerhouse" personal brand will give participants in this workshop a competitive advantage, especially in leadership positions.

  
Dr. Carolyn Root

Register at:  
<https://events.vtools.ieee.org/event/register/255254>

**f** [www.facebook.com/groups/699348797440428/](https://www.facebook.com/groups/699348797440428/)

**✉** @dianaaristizabal@aol.com  
@ammara.ghani@gmail.com

Figure 2: Poster for Personal Branding

## IEEE PES DAY 2021 ACTIVITIES

The Pes day 2021 began with introducing the power and energy society and its benefits to the world.

Realizing the importance of Power and Energy Sector, PES DAY was announced with an introductory speech by Dr. Kandeh Yumkella is a Sierra Leonean Member of Parliament and former United Nations Under-Secretary-General, Chair of UN-Energy (2008-2015) and founding CEO and Special Representative of the Secretary-General on Sustainable Energy for All.

**PES Day 2021**

Keynote Speech

**Hon. Dr. Kandeh Yumkella**

Sierra Leonean Member of Parliament  
Former United Nations Under-Secretary-General  
Chair of UN-Energy (2008-2015)  
Founding CEO and Special Representative of the  
Secretary-General on Sustainable Energy for All

April 01<sup>ST</sup>, 2021

03:00 PM GMT

Schedule:

Opening Session  
PES President's remarks  
PES Day Chair - Events overview  
Keynote Speaker and Q/A

Register now!

[bit.ly/PES\\_keynote](https://bit.ly/PES_keynote)

f t y g /ieeepesday

Figure 3: Poster of the webinar

## ENERGY REVOLUTION IN PAKISTAN AND WORLD

PES DAY 2021 Ambassadors arranged a webinar on energy revolution in Pakistan and world to enlighten about the clean tech trends around the globe and how it effects the energy revolution.

In regard to IEEE PES DAY 2021, a webinar was arranged on 4<sup>th</sup> April 2021 at 3 PM (+5 GMT) in which Ms. Umme Soolaim was invited as guest speaker. The event started with the PES Day's introduction, Energy Consumption across Pakistan was discussed then our worthy guest speaker Miss. Ume Soolaim told us about challenges in the energy sector due to the usage of non-renewable energy resources and then the solutions to those challenges were discussed.

As the usage of renewables is the solution, major renewable energy production ways were explained, including Solar, Wind, Hydel, Tidal/Marine, Geothermal, and Biomass Energy. Then clean tech trends of global market were discussed and finally basic guidance was provided for undergraduate engineers who are interested to pursue their career in Renewable Energy Production.

**IEEE PES DAY 2021**  
Team Pakistan

**ENERGY REVOLUTION IN PAKISTAN AND WORLD**

A mechanical engineer from NEDUET, currently working in ENGRO VOPAK Terminal Limited. Clean Energy Technology was one of her electives in final year and her FYP was totally based on extracting energy from river water using hydrokinetic turbine. She has also been a part of DICE Energy in 2017.

**Ume Soolaim**

Time: 3pm GMT+5  
Date: 4th April 2k21  
Venue: Google Meet

Registration Link: <https://urlzs.com/TCcPK>

Figure 4: Poster of the webinar.



## PAKISTAN ENERGY POLICY AND FUTURE ASPECTS

A webinar was conducted to impart basic knowledge energy and energy policy in Pakistani power sector and its role in future.

IEEE PES SB conducted a webinar on **Pakistan Energy Policy And Future Aspects**” in regard to PES Day activities of PES Day 2021. The webinar took place on 8<sup>th</sup> April 2021 at 4.00PM (+5 GMT).

The event started with a welcome note, followed by introduction to our Guest Speaker Ma’am Maha Kamal. With her vast experience of energy and policy, she shared her knowledge of energy security and key energy issues in Pakistan.

Initially, Energy Policy goals were discussed in terms of Cheap, Clean, and Secure terms. Consumption across Pakistan was discussed in which our speaker introduced us to the international political economy of energy.

The event proved to be a true success based on the feedback of more than 80 students who attended and found it to be both, insightful and engaging.

**IEEE PES DAY 2021**  
Team Pakistan

**IEEE**  
Student Branch

**IEEE PES**  
Power & Energy Society

**PAKISTAN ENERGY POLICY  
&  
FUTURE ASPECTS**

**MAHA KAMAL**

Maha Kamal is an International Public Policy specialist. With over 9 years in communication and policy, she is currently exploring the intersection of technology and politics. Maha was awarded the Chevening Scholarship in 2015 for a master's in international public policy at Queen Mary, University of London. She received a distinction on her dissertation, which explored the Paris Agreement and its Impact on Global Energy Policy.

Time: 4pm GMT+5  
Date: 8th April 2k21

[/ieeepesday](https://urlzs.com/SWYc4)  
[/ieeepesday.pakistan](https://urlzs.com/SWYc4)  
IEEE Power & Energy Society Chapter UET Taxila  
Registration Link: <https://urlzs.com/SWYc4>

Figure 5: Figure Showing Poster of the event.

## GRID RESILIENCE- AN INDEPTH LOOK

An IEEE PES SB conducted a webinar on **Grid Resilience: An In-Depth Look**” in regard to PES Day activities of PES Day 2021. The webinar took place on 9<sup>th</sup> April 2021 at 4.00PM (+5 GMT).

The event began with a short introduction of our honorable speaker, **Mr. Hicham Khireddine** (Grid Modernization Engineer at Eversource Energy), who then began his presentation and quickly got into the foundations of grid resilience.

He then went deep into the US grid system while comparing it with that of Pakistan's and continued to relate the technical aspects of Grid Resilience concerning Artificial Intelligence, Cyber Security, and Weather-Effect. Mr. Hicham heightened his talk with some real-world examples from his experiences, one such example was about his personal research on improving the grid resiliency at Eversource, his department.

The event proved to be a true success based on the feedback of more than 30 students who attended and found it both insightful and engaging.

IEEE Student Branch | IEEE PES Power & Energy Society<sup>®</sup>

IEEE PES Day 2021 Clean Energy Revolution

IEEE PES Power & Energy Society<sup>®</sup> IEEE CU ISLAMABAD

IEEE PES DAY 2021 TEAM PAKISTAN

**The Grid Resilience: An in-depth look**

IEEE UET Taxila IEEE CU Islamabad

We are extremely thrilled to announce the speaker of our event "Mr. Hicham Khireddine" -A Professional and Experienced Grid Modernization Engineer with a demonstrated history of working in the utility industry. Mr. Hicham Khireddine holds his master's degree in Energy Systems and Electrical & Electronics Engineering. Apart from being immensely skilled in AutoCAD, Power Transmission, Communication, Management, and Predictive Analytics, he is also certified in artificial intelligence foundations, thinking machines, and Renewable Energy. So, join us on the 9th of April to benefit from his knowledge and learn all about "The Grid Resilience: In-depth Knowledge".

**Mr. Hicham Khireddine**  
Grid Modernization Engineer  
at Eversource Energy

Register At: <https://bit.ly/31T7on2>

Live On zoom

9th April 2021, Friday

4:00 pm PST (GMT+5)

/ieeepesday /ieeepesday.pakistan

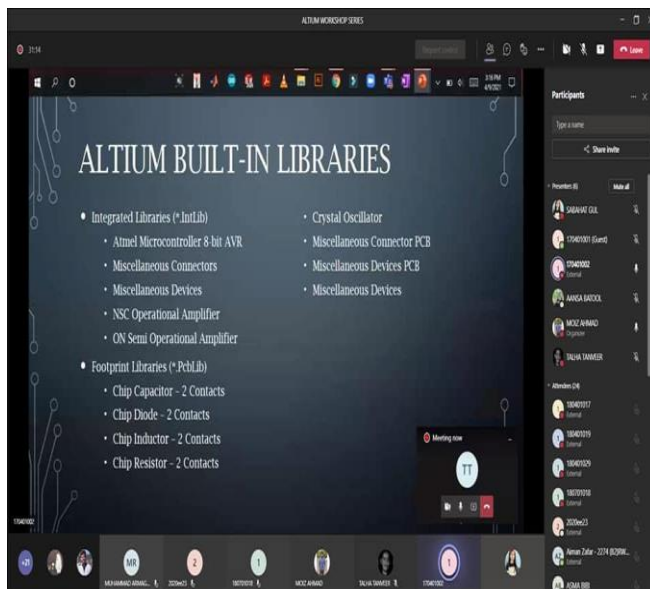
Figure 6: Poster of the webinar

## ALTIUM WORKSHOP

Two-day Workshop was held on Altium to introduce young minds to it's usage and applications in modern world.

IEEE Power and Energy Society UET Taxila Chapter arranged a workshop on the topic Altium Software. This Workshop was held on Friday, April 09, 2021 at 3pm (GMT+5) and Saturday, 10 April 2021, at 9:30 pm (GMT+5) via Microsoft Teams. The workshop series on Altium software was arranged by PES Day'21 Ambassador's Team UET, Taxila to make the audience aware and familiar about the Altium and its usage. This two-days were consisted of three presentations.

On the first day, the first presentation was started with a basic introduction of the event and worthy guest speakers. Initially introduction to Altium designer and its tools were discussed then our worthy guest speaker told us about different electronic circuits including Bread Board, Vero Board, and Printed Circuit Board after that different built-in Altium libraries were discussed which included the integrated libraries and the footprint libraries. On the second day, a circuit was implemented live for the audience to make them well aware of how to implement PCB design in Altium Software. The event ended on the second day all queries of the audience were entertained, followed by an ending note from the speaker



IEEE PES DAY 2021  
Team Pakistan

ALTIUM WORKSHOP

Munazzah Jamal

Sumra Urooj

For the Workshop we are honored to have Ms. Munazza Jamal and Ms. Sumra Urooj, who are Altium experts and have already given workshops on different platforms regarding Altium. They are currently working on "EMG based Ankle Foot Prosthetic" Project. Both of them have been part of IEEE for many years.

Date: 9th & 10th April 2k21  
Friday 3pm GMT+5  
Saturday 9:30am GMT+5

Registration Link: <http://shorturl.at/jAZ37>

Figure 7: Speaker giving brief about Altium Design.

## AI IN SMART GRIDS

IEEE Power and Energy Society UET Taxila Chapter arranged a webinar on the topic AI In Smart Grids.

This Webinar was held on Sunday, April 11, 2021 at 10am (GMT+5) via Microsoft Teams. The webinar started with introduction of our Worthy Speaker Mr. Muhammad Adeel Arif. Mr. Adeel has the research experience of 4 years in "Power System Protection at Smart Grid Lab" and "Machine Learning lab for Power System". Along with this, he also has the industrial experience of working at Schneider Electric Pakistan, FFBL Power Company and Power Tech Research LCC. Germany. As Artificial intelligence and Smart Grids are becoming the new norm of future then why not we get to know about them. IEEE PES SBC UET Taxila brings an event on "AI for Smart Grids" for its parts of IEEE PES Day 2021 Celebrations.

The slide features the IEEE PES Day 2021 logo and Team Pakistan branding. It includes a circular portrait of Muhammad Adeel Arif and a text box detailing his background: Faculty at Department of Electrical Engineering, NED UET; Research Scholar (USPCASE, NUST/ASU) with 4 years of teaching and research experience at 'Power Systems Protection at Smart Grid Lab USPCASE, NUST' and 'Machine Learning Lab for Power System, Arizona State University'; and 3 years of industrial experience at Schneider electric Pakistan, FFBL Power Company Ltd. and Power Tech Research LCC, Germany. The slide also lists the time (10am GMT+5), date (11th April 2021), and a registration link (bit.ly/3g1xnRT).

The screenshot shows a Zoom meeting in progress. The main slide is titled 'Grid Modernization' and has the objective: 'The purpose is to be able to understand:'. It lists three key areas: 'Importance of Resiliency', 'The Grid Vulnerability', and 'Improvement and Perspectives'. The Zoom interface shows a list of participants on the right, including Sabahat Gul, KHIREH, Nimra Naeem, Obaid Ur Rehman, Anouar, and Bakhtawar Naw... The meeting controls at the bottom include options for Unmute, Start Video, Security, Participants, Chat, Share Screen, Pause/Stop Recording, and Reactions.

Figure 8: Session on AI in Smart Grids

## DEPLETION OF CONVENTIONAL SOURCES OF ENERGY

Webinar on Hazards of depletion of conventional sources of energy was conducted to make students aware of future energy crisis.

This IEEE PES SBC UET Taxila with SEE conducted an event on “Depletion of Conventional sources of energy”. The event started on Sunday 18th April, 2021 at 2PM (GMT+5). The event started with the introduction of our worthy speaker "Engr. Babar Abbas". He is a faculty member of Environmental Engineering at UET, Taxila and an expertise at Preparation of Integrated Solid Waste Management Plans. Engr. Babar Abbas discussed about different conventional sources of energy, the importance of renewable sources of energy and how these sources can be used to overcome the depletion in the energy sector.

The poster features a green and white color scheme with a background image of wind turbines. At the top left is the IEEE PES Day 2021 logo with the tagline 'Clean Energy Revolution'. To the right are logos for IEEE Student Society, IEEE PES (Power & Energy Society), and a gear icon. The main title is 'Depletion of conventional sources of energy -A way forward towards Renewables'. A circular inset shows a photo of Engr. Babar Abbas speaking. To his right is a text box detailing his expertise: 'Faculty member of Environmental Engineering at UET, Taxila', 'Expertise at Preparation of Integrated Solid Waste Management Plans.', and 'Specialization in Advance Wastewater Treatment & Membrane Technologies or solid waste'. Below the photo is his name 'Engr. Babar Abbas'. At the bottom left, it states 'Time: 2PM GMT+5' and 'Date: 18th April 2021'. At the bottom right, it includes social media icons, the text '/ieeepesday /ieeepesday.pakistan', 'IEEE Power & Energy Society Chapter UET Taxila', and the registration link 'Registration Link: bit.ly/3a6JeKB'.

Figure 9: Poster of Webinar

# ELECTRICAL NETWORK MODELLING USING ETAP

An online webinar on trending technologies and usage of modern software ETAP

IEEE PES SBC UET Taxila in Collaboration with PES SBCs of CUI Islamabad, UCET IUB, UET Lahore, HITEC, IST & NED UET Karachi arranged a webinar on the topic of "Electrical Network Modelling using ETAP" on 24 April, 2021 at 3PM GMT+5 via "Microsoft Teams".

Our Speaker for this event was "Engr. Waqar Shaikh". He has over 10 years of experience in field of Power System Analysis and is 115 ETAP certified. He has also conducted several sessions in organizations within Kingdom of Saudi Arabia. The event was a major success with 200+ participants.



**IEEE PES DAY 2021**  
Team Pakistan



**Engr. Waqar Shaikh**

## **ELECTRICAL NETWORK MODELLING USING ETAP**

Engr. Waqar Shaikh has over 10 years of experience in field of Power system analysis and is also ETAP 115 certified. Mr. Waqar is a mentor and a technical speaker. He has conducted several knowledge sharing sessions among reputed organisations and institutions with in Saudi Arabia.



Time: 3 pm GMT+5



Date: 24th April 2021

[f](#) [t](#) [v](#) [y](#) [i](#) [m](#) /ieeepesday  
/ieeepesday.pakistan

IEEE Power & Energy Society Chapter UET Taxila

Meeting link: <https://bit.ly/3mNPfW>

Registration Link: <https://bit.ly/3x0Xb6r>

Figure 10: Poster of the Webinar

## TALK ON ENERGY VALUE CHAIN AND INTEGRATING RENEWABLES IN THE CHAIN

Webinar was held on the said topic on **29<sup>th</sup> April 2021** for undergraduates to make them familiar with Energy policies of world and the system of chain.

IEEE PES SB UET Taxila in collaboration with IEEE IST SB, IEEE AND WIE SEECS, NUST, conducted a webinar on the topic of energy chain.

The guest speaker was Hira Wajahat Malik, who is the founder of Climate Launchpad. The event began with the introduction of the topic followed by renewable energy resources, their usage and importance. The event was successful with 120+ participants.

**IEEE PES DAY 2021**  
Team Pakistan

**Talk on energy value chain  
And  
Integrating Renewables in the chain**

**HIRA WAJAHAT MALIK**

A Telecommunication Engineer from NEDUET and MBA from LUMS, Hira Wajahat is the Pakistan National lead for ClimateLaunchpad, a global green business ideas competition and founder of CleanTech Republic.

Time: 4 pm GMT+5  
Date: Thursday, 29 April 2021

Registration Link: <https://bit.ly/3dLJroB>

Figure 11: Poster of Webinar

# **INTEGRATION OF SOLAR POWER INTO THE ELECTRICITY GRID: APPLICATIONS AND PROBLEM**

A Webinar was held to make young minds aware of solar power and its importance in the modern electric world.

Team IEEE PES SB UET Taxila held a webinar on the given topic on 31<sup>st</sup> April 2021 in regards to PED Day Activities. The event began with the introduction of the worthy speaker. The webinar focused on solar power, its usage, cost and importance, challenges faced and applications in the upcoming future.

The event was followed by a QnA session and ended.

The poster features a central circular portrait of Zain Anwer Memon, a Phd Scholar at Politecnico di Torino, Italy. The background includes a stylized illustration of wind turbines. Logos for IEEE PES Day 2021, IEEE Student Branch, and IEEE PES are present at the top. Social media icons and a registration link are located at the bottom right.

**IEEE PES DAY 2021**  
Team Pakistan

**Integration of Solar Power into Electricity Grid: Application and Problems**

**Zain anwer memon**

Phd Scholar at Politenico di Torino, Italy on a Project funded by Joint research project with top Universities  
Member of Pak US Alumni Network (PUAN) Jamshoro Chapter. Lecturer at Faculty of Engineering & Technology, University of Sindh, Jamshoro

**Time: 8pm GMT+5**  
**Date: 30th April 2k21**

[f](#) [t](#) [i](#) [v](#) [e](#) /ieeepesday /ieeepesday.pakistan  
IEEE Power & Energy Society Chapter UET Taxila  
Registration Link: <http://shorturl.at/mtuR1>

Figure 12: Poster of the Event



## WORKSHOP ON MATLAB

Webinar on the said topic was held on **12<sup>th</sup> May 2021** to make the freshmen aware of the use of software and its applications.

A workshop on MATLAB was held to make the audience aware about the MATLAB software which is very important for the beginners especially those who are going to study this software in their upcoming semesters.

The workshop regarding MATLAB software was arranged by IEEE SBC UET, Taxila on 12th May, 2021 at 03:00 pm (GMT+5). The event was started with the welcome note, followed by introducing our Guest Speaker Mr. Asmad Razzaq. Our worthy speaker made the student familiarize about the basics of MATLAB software and its importance for the engineers and the programmers. After giving students the basic introduction about the software and its functions, our worthy speaker discussed plotting and the various applications of MATLAB software by elaborating them with various examples.

Furthermore, the basic guidance was provided to all the juniors who are stepping into use this software in their degree. At the end all queries of audience were entertained, followed by ending note of speaker, the webinar ended at 04:45 pm (GMT+5).

For the event we had almost 170 participants out of which 50 were IEEE members.



Figure 13: Poster of the webinar

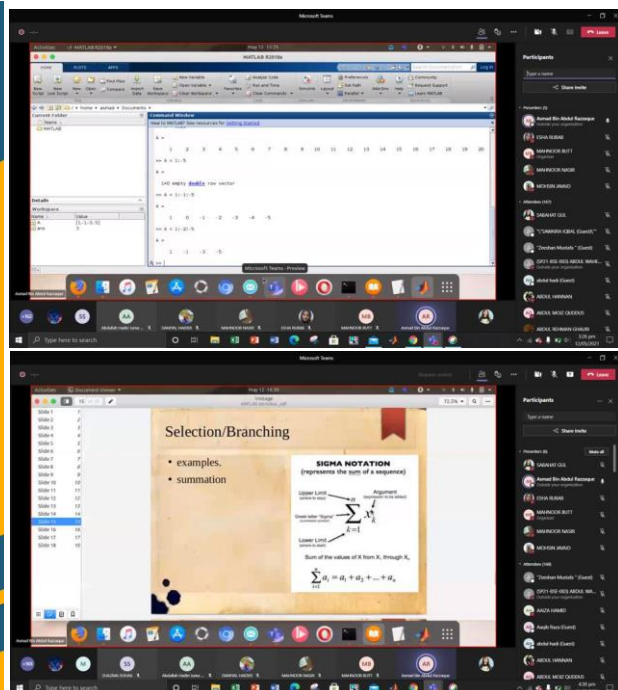


Figure 14: Speaker demonstrating files on MATLAB

## **THE ART OF FREELANCING**

Webinar was held on **19<sup>th</sup> May 2021** to make the young freshmen learn about freelancing and earning on their own.

Realizing the need for an hour, Team IEEE SB UET Taxila organized a workshop on the Art of freelancing. The workshop covered important aspects of content writing, some tips to kickstart your journey towards financial independence, and a lot more.

Our speaker, Ms. Sadia Mazhar was an acclaimed freelancer and an entrepreneur herself. She is recently honored as one of the top 100 freelancers of our country and is conducting many trainings for the students and professionals. She is also a founder of Torque 360 SMC.

The poster is a blue-themed graphic with white and yellow text. At the top left, it features the IEEE Student Branch logo and the text 'IEEE Student Branch'. To its right is a pink circular logo with the text 'IEEE Women in Engineering'. At the top right is the IEEE PES logo with the text 'Power & Energy Society'. The main text reads 'IEEE SB UET TAXILA Presents A Workshop On The Art Of FREELANCING'. Below this, there is a portrait of Sadia Mazhar, a woman wearing a black hijab and glasses, with the text 'Guest Speaker Sadia Mazhar Freelancing Trainer & CEO of Torque 360 SMC Pvt'. At the bottom left, it says 'Live On MS Teams'. At the bottom right, it says 'Wednesday 19<sup>th</sup> May At 05:00 PM'. At the very bottom, there are social media icons and links: 'f ieeeuett | @ ieee\_uettaxila | web.uettaxila.edu.pk/ieee'.

Figure 15: Poster of the Webinar

## NATIONAL YOUTH CREATIVE EVENT

NATIONAL YOUTH CREATIVE EVENT'21 IEEE Student Branch UET Taxila announced collaboration with one of the most prominent yet competing societies of Pakistan, IEEE Student Branch MUET SZAB for their signature event “National Youth Creative Event NYCE’21”.

IEEE Student Branch MUET SZAB arranged an amazing event “National Youth Creative Event NYCE’21” . The event was organized for all of us for personal grooming and self learning through different Technical and Non-Technical sessions.



Figure 16: Poster of Collaboration with UET Taxila

## ALL PAKISTAN TECH AND ART FESTIVAL'21

IEEE Student Branch UET Taxila announced its partnership with one of the most eminent societies of Pakistan, GCU-ACM Student Chapter for their signature event “ALL PAKISTAN TECH AND ART FESTIVAL’21”.

It aimed to provide students a great exposure and a means to learn from experienced and accomplished professionals. All Pakistan Tech and Art Festival’21 was contribute efforts of bringing the technological community of Pakistan closer together, during the pandemic when technology has been more important then ever in keeping things running.

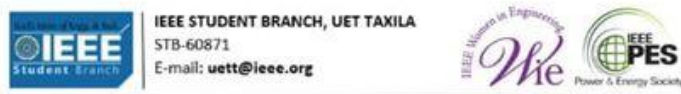


Figure 17: Collaboration Poster of APTA’21 and IEEE UET Taxila

## ANNUAL GENERAL ELECTIONS

Annual General elections were held to decide the future IEEE Student branch Cabinet.

Annual Elections were held between the nominees and the new chairperson was announced along with the future cabinet for the year 2021.



### NOTICE

IEEE Student Branch UET Taxila announces Office Bearers for the tenure 20201 - 22.

#### IEEE MENTOR

Designation	Name	Department
Mentor	Ahmar Ul Haq	17-Electrical

#### IEEE CABINET

Designation	Name	Department
Chairperson	Mohsin Javaid	18-Electrical
Vice-Chairperson	Sabahat Tabassum	18-Electrical
General Secretary	Hasnain Riaz	18-Electrical
Treasurer	M. Waqar	18-Electrical

#### WIE CABINET

Designation	Name	Department
Chairperson	Suman Zahoor	18-Electrical
Vice-Chairperson	Sabahat Gul	18-Electrical
General Secretary	Javeria Noor	18-Electrical
Treasurer	Nayab Ahmad	18-Electrical

#### PES CABINET

Designation	Name	Department
Chairperson	Moiz Ahmad	18-Electrical
Vice-Chairperson	M zain Ali	18-Electrical
General Secretary	Ahmad Asif	18-Electrical
Treasurer	Usman Arshad	18-Electrical

#### CES CABINET

Designation	Name	Department
Chairperson	Abdul Rafay Hameed Malik	18-Electronics
Vice-Chairperson	Zunaira	18-Electronics
General Secretary	Areeba Zainab	18-Electronics
Treasurer	Habib Ur rehman	18-Electronics
Joint Secretary	Zeeshan abbasi	18-Electronics
Academic Coordinator	Hamza Tanveer	18-Electronics

AHMAR UL HAQ  
Ex-Chair, IEEE UETT

UMAR KHAN  
Advisor, IEEE CES UETT

INTISAR ALI SAJJAD  
Advisor, IEEE PES UETT

GULISTAN RAJA  
Counsellor, IEEE UETT

Figure 18: Cabinet 2021-22

## WEBINAR ON ULTIMATE GUIDE TO FYP

A webinar was held on the topic How to FYP, basically for the final year graduates, how to ace that.

A non-technical and informative webinar on the topic of FYP was arranged by IEEE PES Chapter UET Taxila on 7th August 2021 at 04:00 pm (GMT+5) conducted by the Guest Speaker Mr. Ali Hassan Bhatti. Initially, the speaker described the basic components of a successful Final Year Project and explained them by showing various examples. He thoroughly guided all the participants regarding the hurdles students face during their final year projects.

Selection of topic, searching the content, advisor selections and many other topics were discussed elaborately. The speaker also shared some of the best tips and tricks for the successful execution of FYP.

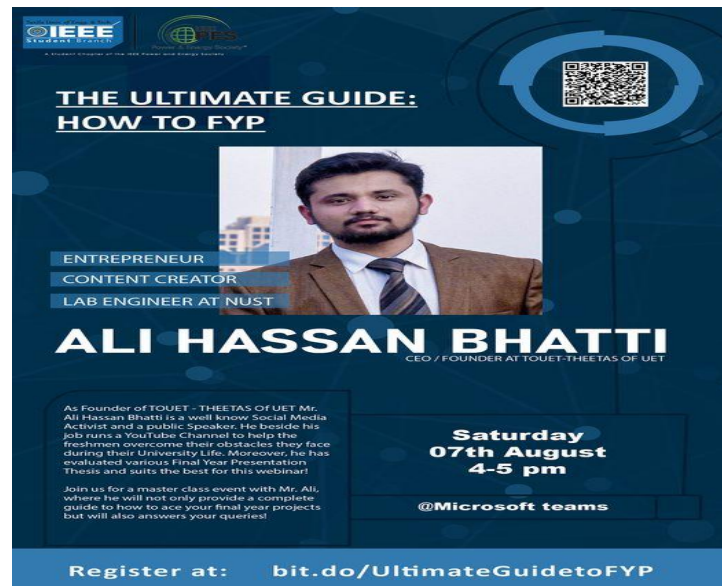


Figure 19: Poster of the Webinar

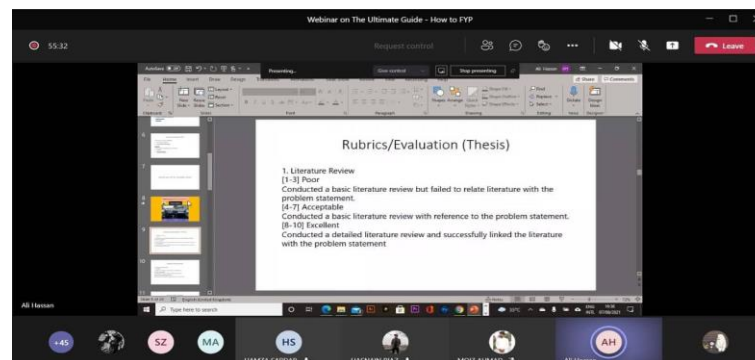


Figure 20: Speaker explaining the topic

## THE BASIC ART OF MACHINE LEARNING

A webinar was conducted to guide students about machine learning and its applications.

IEEE PES SBC UET Taxila in collaboration with TRAC, IEEE CES and IEEE WIE Affinity Group is bringing you an enlightening webinar on "The Basic Art of Machine Learning" by Ramsha Siddiqui.

Machine learning provides computers with the ability to learn without being explicitly programmed. It focuses on the development of computer programs that can change when exposed to new data.

The poster is for a webinar titled "The Basic Art of Machine Learning". It is presented by IEEE PES SBC UET TAXILA in collaboration with TRAC. The guest speaker is Ramsha Siddiqui, a Machine Learning Engineer from Boottown SF. The session description discusses how Artificial Intelligence covers most of the tech we see today, such as Google Search, Amazon Alexa, Facebook Ads, and Netflix recommendations, which are all examples of intelligent machines that learn from past user experiences to make new predictions. The session will talk about what it is and how these machines memorize data, infer feature correlations, and excel at their validation results in order to solve almost any problem that you can think of. The webinar is live on MS Teams on Sunday 22<sup>nd</sup> August from 04:00PM to 04:30PM. A QR code is provided for registration. The poster also includes logos for IEEE PES SBC UET TAXILA, TRAC, IEEE CES, and IEEE WIE Affinity Group.

IEEE PES SBC UET TAXILA  
in collaboration with  
**TRAC**  
Presents A Workshop On

*The Basic Art Of*  
**MACHINE LEARNING**

Guest Speaker  
**Ramsha Siddiqui**  
Machine Learning Engineer,  
Boottown SF

**Session Description**  
Ever wonder about how Artificial Intelligence covers the majority of tech we see today? Google Search, Amazon Alexa, Facebook Ads, Netflix recommendations - these are all examples of intelligent machines that learn from past user experiences to make new predictions - which is the essence of Machine Learning. In this session, we'll talk more about what it is and how these machines memorize data, infer feature correlations, and excel at their validation results in order to solve almost any problem that you can think of!

Get Register  
[QR Code]

Live On  
**MS Teams**  
Sunday 22<sup>nd</sup> August  
04:00PM - 04:30PM

f ineepes.uett | @ ineepes.uettaxila | i ineepes.uett@gmail.com

Figure 21: Poster of the webinar

## **CALL FOR DIRECTORS AND DEPUTY DIRECTORS**

Directors and deputy directors were inducted in different domains of IEEE SB UET Taxila.

IEEE SB UET Taxila is opened the Recruitment Drive for Directors and Deputy Directors for the academic year 2021-2022.

Every member was encouraged to take this opportunity and apply for it. General members from 2k20 can apply for Deputy Directors, whereas Co-Heads from 2k19 can apply for Directors.

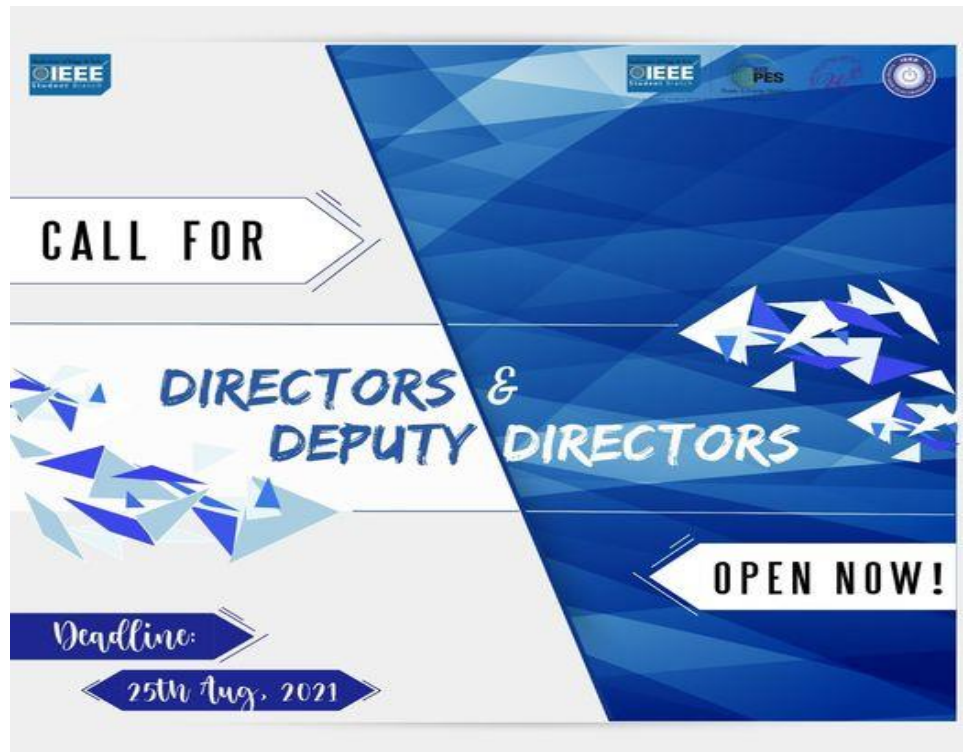


Figure 22: Poster Announcing the call for Directors and Deputy Directors



## STEM 1.0

A series of 10 webinars was conducted consisting of different and a variety of technical modules.

IEEE PES and IEEE WIE AG UET Taxila announced a series of events as "STEM 1.0" to foster young minds with STEM activities and ventures.

STEM is important because it penetrates every part of our lives. These activities provide hands-on and minds-on lessons for the students that encompass the whole range of experiences and skills.

STEM 1.0 is bringing you some of its signature events for the year as:

S - Solar Energy An Insight towards future

T - Technical & Non- Technical Sessions

1.Graphic Designing Workshop

2.Acing in Microsoft Excel

3.Demystifying Bitcoin

4.Achieve Your Full Potential

5.How to Create a Job-Winning Resume

E - Entrepreneurship Module (Idea Development & Startup Methodology)

M - Machine Learning Workshop



Figure 23: Posters of the STEM 1.0

## ACHIEVING YOUR FULL POTENTIAL

The STEM 1.0 series conducted its first webinar on 6<sup>th</sup> September 2021, to guide students on how they can achieve their full potential.

In this session, the speaker discussed the strategies, key personality attributes & qualities that will help students to attain their full potential

The poster is for a webinar titled "STEM 1.0" with the subtitle "ACHIEVE YOUR FULL POTENTIAL". It is a joint initiative by the IEEE PES Student Branch Chapter and the IEEE WIE Affinity Group. The event is scheduled for 6 September 2021 from 3pm to 4pm. The speaker is Talha Ilyas, CEO & Founder of Taghayyur. The poster includes a biography of the speaker and a registration deadline of 5th September. At the bottom, there are logos for IEEE Student Branch, IASEE, SIEP, STEP, WIE, ASME, TRAC, and New.

**IEEE Student Branch**  
A Student Chapter of The IEEE Power and Energy Society

**IEEE PES**

# STEM 1.0

A joint Initiative by IEEE PES Student Branch Chapter and IEEE WIE Affinity Group  
**IEEE PES x IEEE WIE**

**6** September 2021 (3pm-4pm)

## ACHIEVE YOUR FULL POTENTIAL

In this session, sheikh talha Ilyas will be discussing about the strategies, key personality attributes & qualities that will help students to attain their full potential.

**BIOGRAPHY OF SPEAKER:**

Sheikh Talha Ilyas is the Founder & CEO of Taghayyur (An online Soft Skills Training Company). He is an Entrepreneur, Certified Life Coach, Soft Skills Trainer, & Inspirational Speaker. He is a graduate Mechatronics & Control Engineer from UET & learned entrepreneurship from NIC, LUMS. He has been working as a Motivational Speaker & Soft Skills Trainer for the last 3 years along and now running 2 businesses. He has coached 300+ individuals & trained 2000+ students by conducting 150+ training sessions in 50+ Institutes of Punjab.

**Talha Ilyas**  
Taghayyur (CEO & Founder)

*\*Registration Deadline: 5th September*

**IEEE Student Branch** **IASEE** **SIEP** **STEP** **WIE** **ASME** **TRAC** **New**

Figure 24: Poster of the Event

## **INTRODUCTION TO ARDUINO**

The Last module of STEM 1.0 Series to introduce freshmen to basics of arduino.

The STEM 1.0 came to end with a module that illustrated basic knowledge of arduino, it's usage and applications.

**IEEE**  
STUDENT BRANCH

**PES**

# STEM 1.0

A Joint Initiative by IEEE PES Student Branch Chapter and IEEE WIE Affinity Group  
**IEEE PES x IEEE WIE**

**15** September 2021 (7:30pm-8:30pm)

## **Introduction to Arduino**

A brief introduction to Micro controller with it's Basic. Moving forward to Embedded systems and its types and then to Arduino. It's introduction, use and it's variants. Chips involved in Arduino, also different boards types and features followed by main discussion on UNO. Focusing on the 4 commands with examples and a little touch to Raspberry pi.

### **BIOGRAPHY OF SPEAKER:**

**Talha Tanveer**  
Trainee engineer at  
TURKPLAST

Engr. Talha Tanveer is an alumnus of UET Taxila and Ex-Chairperson of IEEE PES SBC UET Taxila. He is serving as a Trainee Engineer at Alif Industry SMC Pvt Ltd (TURKPLAST). Mr. Talha has done his BS in Electrical Engineering from University of Engineering and Technology Taxila and has been part of IEEE from last 6 years. He has served IEEE on various platforms as different posts of Ambassador. Currently, he is serving IEEE as a Young professional member. He has an expertise in Arduino and conducted various workshops on it previously along with other Electrical software's.

**\*Registration Deadline: 5th September**

**IEEE** STUDENT BRANCH  
**PES**  
**SIEP**  
**STEP**  
**WIE**  
**ASME** SETTING THE STANDARD  
**TRAC** Transforming People  
**New**

Figure 25: Poster of the module

## IEEE DAY AWARENESS WEBINAR

Leaders IEEE SB UET TAXILA in collaboration with IEEE UCET IUB Student Branch has arranged a webinar on IEEE DAY Awareness.

The webinar was held on September 12, 2021. This webinar had covered the introduction of IEEE and how we become its member. The webinar also had covered the benefits we can get after joining IEEE.

**Date:** September, 12th 2021.  
**Time:** 12:00 PM (GMT+5)  
**Virtually on Zoom.**  
**Get yourself register:**  
<https://forms.gle/VRukx7Zh1H6uXEpg9>

**Muhammad Farid Zamir**  
Muhammad Farid Zamir is a professional SQA Engineer/Analyst in Khwarizmi Institute of Computer Sciences (KICS) UET Lahore since 2020. Farid began IEEE career in 2016. He has served as Asst Section Student Representative of IEEE Lahore Section. In 2018 he assumed the charge of Chairperson IEEE UCET IUB Student Branch. He was first Subsection Student Representative (SSR) of IEEE Bahawalpur Subsection and founding chairperson of IEEE Signal Processing Society (SPS) IUB chapter. Mr. Farid was awarded with Best Student Volunteer Award at Golden Jubilee celebration of IEEE Lahore Section in 2019. During his tenure as chairperson, the student branch stood second best in Asia Pacific. He has led many mega events including BSSYW Congress. He has four international funding collaborations at his credit. In 2019 He got his research paper published in Springer

**IEEE DAY Awareness Seminar highlights**

- 01 Introduction to IEEE
- 02 Benefits of joining IEEE
- 03 How to become member of IEEE

[in](#) [ig](#) [fb](#) [yt](#) [tw](#) [@ieeucetiub](#)

Figure 26: Poster of the Webinar

## ARTIFICIAL INTELLIGENCE

This webinar was conducted in order to spotlight the importance of Machine Learning called as ARTIFICIAL INTELLIGENCE on September 23rd, 2021 at 7PM (GMT+5) by IEEE, Student Branch, UET TAXILA.

The main focus of this webinar it to through light upon the Machine Learning and different aspects followed by the difference of Traditional Programming and Machine Learning (AI). The speaker of the webinar elaborated the difference by explaining Machine Learning Process step by step by giving examples and through different web diagrams. The session was very informative covering every aspect of Machine Learning and the relation of Artificial Intelligence as well as the concept of Deep Learning. In addition, speaker also explained different types of Machine Learning that includes SUPERVISED, UNSUPERVISED, and REINFORCEMENT Learning. Furthermore, speaker of the webinar also added aspects and features of these types and also gave some applications that use the concept of Machine Learning.

**IEEE SB UET TAXILA**  
*Presents a webinar on*

# ARTIFICIAL INTELLIGENCE

## COMPUTER VISION

Artificial intelligence forms the basis for all computer learning and is the future of all complex decision making. Computer vision is one of subdomain of artificial intelligence (AI) that enables computers and systems to derive meaningful information from digital images, videos and other visual inputs.

**Asharib Ahmed**  
*Google Developer Lead*

**BIOGRAPHY OF SPEAKER:**

- Currently working as AWS community builder
- Former core team member at Google DSC
- Ambassador at deeplearning.ai.
- Recently worked with KMPG United States.
- AI developer

SEP 23rd, 2021  
7-8PM  
MS TEAMS

**Registration Link:**  
<https://tinyurl.com/52bmc2mc>

Figure 27: Poster of the Webinar

## FIRESIDE CHAT WITH SYED HUSNAIN

This webinar was conducted on **2<sup>nd</sup> October 2021** by IEEE Day 2021 Ambassadors. The webinar had Mr. Syed Husnain Tanweer Kazmi, founder of IEEE Student branch UET Taxila, The webinar aimed to have an informative talk by the speaker following the live questions from the audience and guiding them about the roadmap to a successful career.

IEEE Student Branch PRESENTS:

Fireside chat with  
**Syed Husnain**

**DESCRIPTION:**

Syed Husnain Tanweer Kazmi belongs to the Electrical Engineering batch of 2009 of UET Taxila. He later graduated with a masters degree in Electrical Power and Energy Engineering from Aalto University, Finland. He is an R&D professional with a demonstrated history of developing multidisciplinary systems from scratch in domains of electromagnetics and electrical engineering under top notch European infrastructures like the Horizon 2020. His core experience encompasses R&D of magnetic levitation systems, high speed motors and magnetic bearings. Amongst other professional endeavours, he currently leads a technology development project at Teraloop in Finland, from platform of SMARAGDI (Smart Magnets for Accelerator Research and Diagnostic Data Infrastructure), in the field of high temperature superconductors for building superconducting electrical machines and magnetic bearings. SMARAGDI is a public-private consortium which got funded by Business Finland for this project worth 2 Million Euro, with a grant of 1.2 Million Euro. The goal of this consortium is to develop new technology solutions for high-temperature superconducting magnet applications. Syed Husnain was also the founder of IEEE at UET Taxila after its demise more than 2 decades ago. He is a strong advocate of solving societal challenges through technology.

Date: 2 Oct 2021  
Timings: 5:30 pm  
Platform: Teams

Do Register for the Event.

Figure 28: Poster of the Webinar

## **IEEE DAY CAKE CUTTING CEREMONY**

The IEEE Day Ambassadors arranged cake cutting ceremony on behalf of IEEE Day 2021 on 5<sup>th</sup> October 2021.

The event focused on guiding about IEEE Day and the discount that has been offered permanently on its international membership. The event concluded by cutting the cake and distributing it among the audience.



Figure 29: Cake Cutting ceremony



Figure 30: IEEE DAY 2021 Ambassadors

## GENERAL BODY MEETING

A general body meeting was held to entertain the queries of juniors regarding webinars and events and to discuss the plans.

A GBM was conducted on **9th November 2021**. The meeting was held to discuss routine events and to introduce the newly inducted members to IEEE. The event also focused on elaborating the duties of selected directors and co-directors.

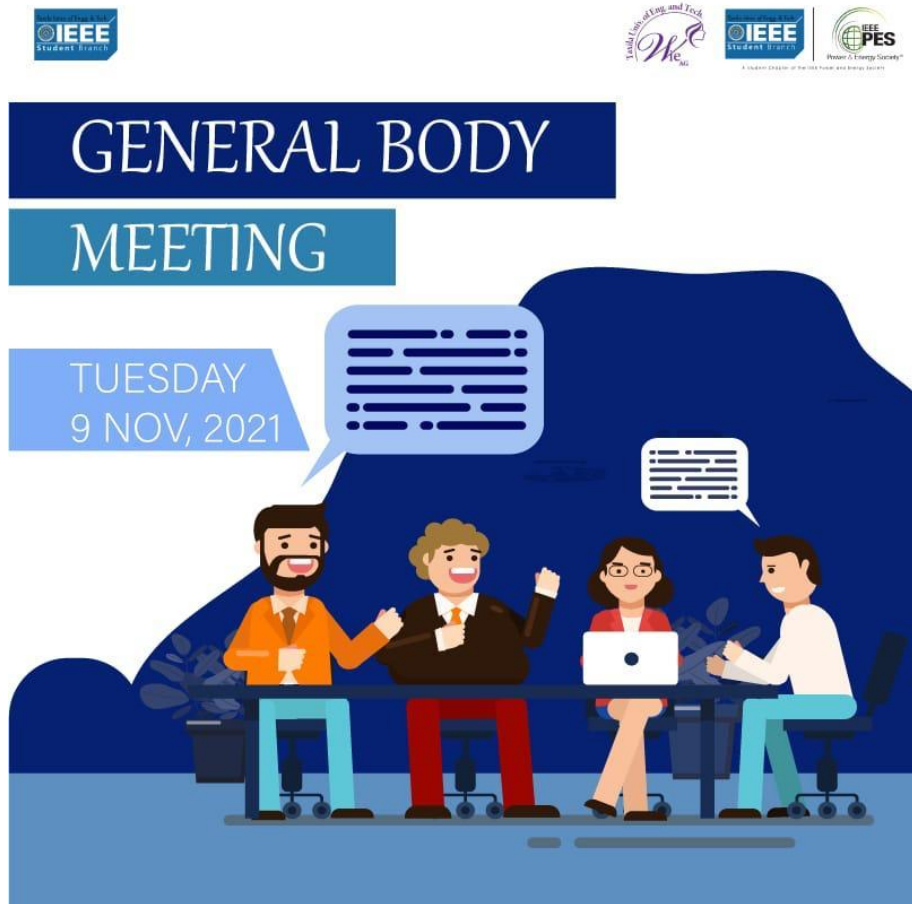


Figure 31: Poster of the GBM



## SPORTS FEST

This event was conducted on **24<sup>th</sup> November 2021** in regard to the Sports week announced at University. The event focused on extracurricular activities for students by offering a variety of games and competitions for students. The students were awarded wirttecurettese award ceremony later on.



Figure 32: Poster of the Sports Fest



# Contact Us

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