



# Professional Societies

## *Electrical Engineering Department, Harcourt Butler Technical University (HBTU) Kanpur*



*IEEE Student Branch (STB) HBTU Kanpur  
(STB11519)*

*IEEE Power Electronics Society Student Branch  
Chapter (PELS SBC) HBTU Kanpur (SBC11519)*

*IEEE Women In Engineering Student Branch  
Affinity (WIE SBA) HBTU Kanpur (SBA11519)*

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## *Preface*

This annual report serves as a comprehensive record of the activities, events, and initiatives undertaken by the IEEE Student Branch, IEEE Power Electronics Society (PELS) Student Branch Chapter and the IEEE Women In Engineering (WIE) Student Branch Affinity at Harcourt Butler Technical University (HBTU), Kanpur during the academic year 2025-2026. The purpose of this annual report is to provide a detailed overview of the various programs organized by the student branches, highlighting their objectives, execution, and outcomes.

The IEEE Student Branch, IEEE PELS Student Branch Chapter and IEEE WIE Student Branch Affinity have been instrumental in fostering a culture of innovation, collaboration, and professional development among students. Through a series of workshops, seminars, expert talks, and interactive sessions, these student branches have created numerous opportunities for students to enhance their technical skills, gain industry insights, and engage with professionals and alumni.

This annual report is structured to present a chronological account of the events, starting with the Annual General Meeting and followed by various executive committee meetings, orientation sessions, expert talks, placement talks, workshops, and alumni interactions. Each section provides a detailed description of the event, including the date, time, venue, mode of conduct, key highlights, and the impact on the participants.

The efforts of the office bearers, members, and volunteers have been pivotal in the successful execution of these events. Their dedication and commitment to the objectives of the IEEE Student Branch, the IEEE PELS Student Branch Chapter and the IEEE WIE Student Branch Affinity have significantly contributed to the overall growth and development of the student community at HBTU.

We hope this annual report serves as a valuable resource for future office bearers and members, providing them with insights and inspiration to continue the legacy of excellence and innovation. It also aims to acknowledge and celebrate the contributions of all those involved in making these initiatives a success.

We extend our heartfelt gratitude to the Counselor, faculty advisor, guest speakers, alumni, and all participants for their unwavering support and active involvement. Together, we strive to uphold the standards of the IEEE community and make meaningful contributions to the field of electrical engineering and power electronics.

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## **PART A : Student Branch and Chapter Summary**

### **A.1 Executive Summary**

The IEEE Student Branch (STB 11519) HBTU Kanpur, IEEE Power Electronics Society Student Branch Chapter (PELS SBC 11519) HBTU Kanpur and IEEE Women In Engineering Student Branch Affinity (WIE SBA 11519) at Harcourt Butler Technical University, Kanpur serves as a dynamic platform for students to explore advancements in Engineering, Technology, and Innovation. Our mission is to foster Technical Excellence, Professional Growth, and Networking Opportunities among students. Through a variety of activities—including **Technical Workshops, Expert Talks, Personality Development Session, Placement Talks, Alumni Interaction Sessions**, etc. We aim to bridge the gap between academia and industry. Our members gain hands-on experience, leadership skills, and exposure to cutting-edge technologies such as AI, IoT, cybersecurity, and robotics. By aligning with IEEE's global vision, we strive to empower students with the knowledge and skills necessary to contribute to technological advancements and societal progress. Our initiatives focus on **Knowledge-Sharing, Skill Development, and Community Engagement**, ensuring holistic growth for our members.



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## **Executive Committee Members, 2025**

### **1. IEEE Student Branch** **(Geo-Code STB11519)**



<b><u>S.NO.</u></b>	<b><u>POSITION TITLE</u></b>	<b><u>OFFICER</u></b>
<b>1.</b>	<b>Counselor</b>	<b>Dr. Sanjiv Kumar</b> (Professor, EED, HBTU, Kanpur)
<b>2.</b>	<b>Chair</b>	<b>Jasmeet Kaur</b> (EE, B.Tech. 4 <sup>th</sup> Year)
<b>3.</b>	<b>Vice-Chair</b>	<b>Kanika Pandey</b> (EE, B.Tech. 4 <sup>th</sup> Year)
<b>4.</b>	<b>Secretary</b>	<b>Anushesh Pandey</b> (EE, B.Tech. 4 <sup>th</sup> Year)
<b>5.</b>	<b>Treasurer</b>	<b>Pankaj Yadav</b> (EE, B.Tech. 3 <sup>rd</sup> Year)
<b>6.</b>	<b>Webmaster</b>	<b>Udit Gupta</b> (EE, B.Tech. 3 <sup>rd</sup> Year)

**2. IEEE Power Electronics Society**  
**Student Branch Chapter**  
**(Geo-Code SBC11519)**



<b><u>S.no.</u></b>	<b><u>POSITION TITLE</u></b>	<b><u>OFFICER</u></b>
<b>1.</b>	<b>Faculty Advisor</b>	<b>Dr. Sanjiv Kumar</b> (Professor, EED, HBTU, Kanpur)
<b>2.</b>	<b>Chair</b>	<b>Ashutosh Yadav</b> (EE, PhD)
<b>3.</b>	<b>Vice-Chair</b>	<b>Deependra Singh</b> (EE, B.Tech. 4 <sup>th</sup> Year)
<b>4.</b>	<b>Secretary</b>	<b>Kushagra Chaubey</b> (EE, B.Tech. 3 <sup>rd</sup> Year)
<b>5.</b>	<b>Treasurer</b>	<b>Unnati Anand</b> (EE, B.Tech. 4 <sup>th</sup> Year)
<b>6.</b>	<b>Webmaster</b>	<b>Vismay Katiyar</b> (EE, B.Tech. 2 <sup>nd</sup> Year)

3. **IEEE Women In Engineering**  
**Student Branch Affinity**  
**(Geo-Code SBA11519)**



<b><u>S.no.</u></b>	<b><u>POSITION TITLE</u></b>	<b><u>OFFICER</u></b>
1.	Faculty Advisor	<b>Dr. Sanjiv Kumar</b> (Professor, EED, HBTU, Kanpur)
2.	Chair	<b>Unnati Anand</b> (EE, B.Tech. 4 <sup>th</sup> Year)
3.	Vice-Chair	<b>Anwasha Singh</b> (EE, B.Tech. 3 <sup>rd</sup> Year)
4.	Secretary	<b>Sneha Arya</b> (EE, B.Tech. 3 <sup>rd</sup> Year)
5.	Treasurer	<b>Tanvi Sepolia</b> (EE, B.Tech. 3 <sup>rd</sup> Year)
6.	Webmaster	<b>Dhruvi Singh</b> (EE, B.Tech. 2 <sup>nd</sup> Year)

#### 4. IEEE Communication Society

##### Student Branch Chapter

(Geo-Code SBC11519A)

**(Newly established Student Branch Chapter)**



<u>S.no.</u>	<u>POSITION TITLE</u>	<u>OFFICER</u>
1.	Faculty Advisor	<b>Dr. Kumar Gaurav</b> (Assistant Professor, ETD, HBTU, Kanpur)
2.	Chair	<b>Ajeet Kumar</b> (ETD, PhD )
3.	Vice-Chair	<b>Shubh Malhotra</b> (ET, B.Tech. 3 <sup>rd</sup> Year)
4.	Secretary	<b>Atulya Shikhar</b> (ET, B.Tech. 3 <sup>rd</sup> Year)
5.	Treasurer	<b>Manav Singh</b> (ET, B.Tech. 2 <sup>nd</sup> Year)
6.	Webmaster	<b>Imaad Ansari</b> (ET, B.Tech. 2 <sup>nd</sup> Year)

**List of Executive Committee Meetings, 2025**

#	Meetings	Venue	Date
1	1st Executive Committee Meeting	Simulation Lab Electrical Engineering Department, HBTU	01/03/2025
2	2nd Executive Committee Meeting	Simulation Lab Electrical Engineering Department, HBTU	15/04/2025
3	3rd Executive Committee Meeting	Online/ Google-Meet	12/07/2025
4	4th Executive Committee Meeting	Regenta Central The Crystal	19/11/2025

**A.2 Section Highlights*****Member Statistics 2025:***

#	Grade	Number of Members
1	Senior Member	1
2	Member	1
3	Graduate Student Member	7
4	Student Member	69



### **Summary of Events Organized, 2025**

The academic year 2025-2026 has been a remarkable journey for the IEEE Student Branch, the IEEE Power Electronics Society (PELS) Student Branch Chapter and the IEEE Women In Engineering (WIE) Student Branch Affinity at Harcourt Butler Technical University (HBTU), Kanpur. Throughout the year, we have organized a diverse array of events that have significantly contributed to the professional and personal growth of our members.

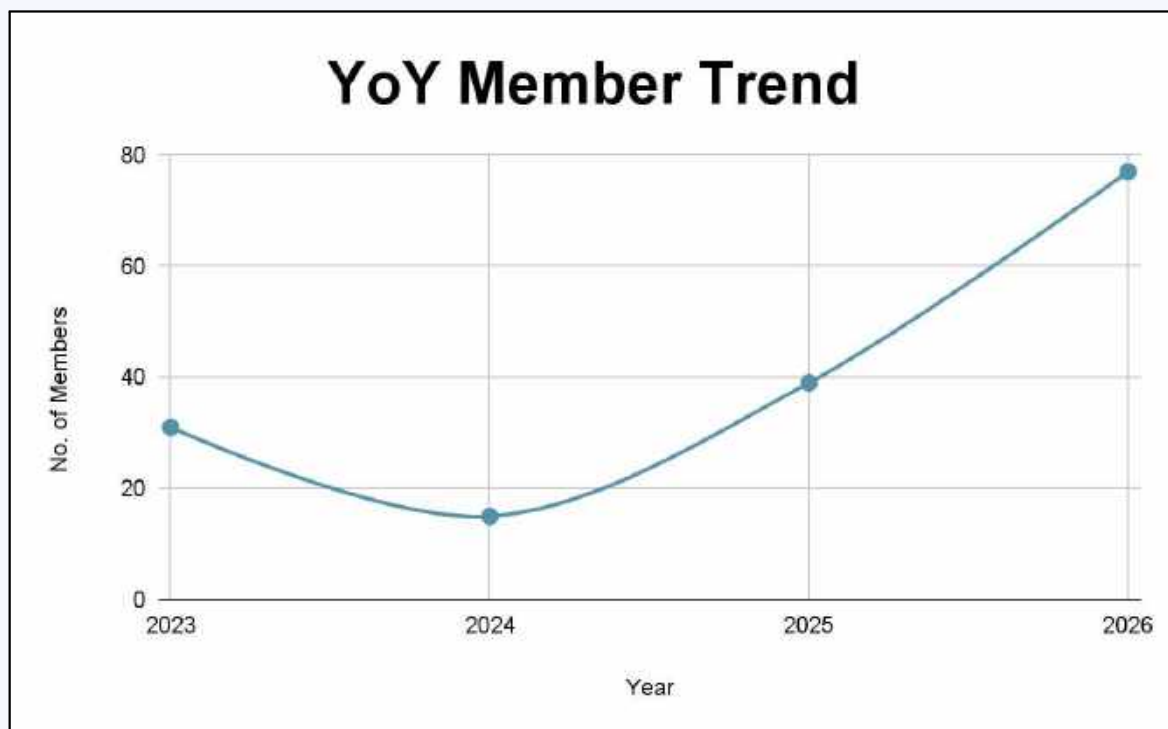
In total, we successfully conducted:

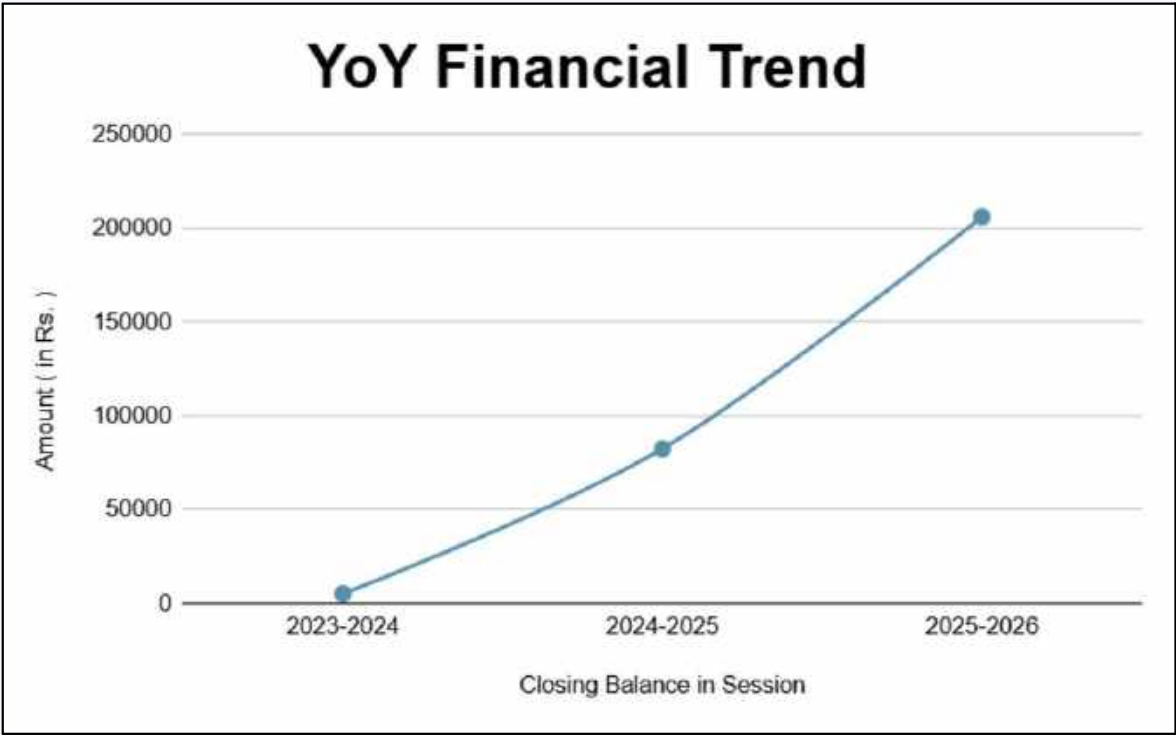
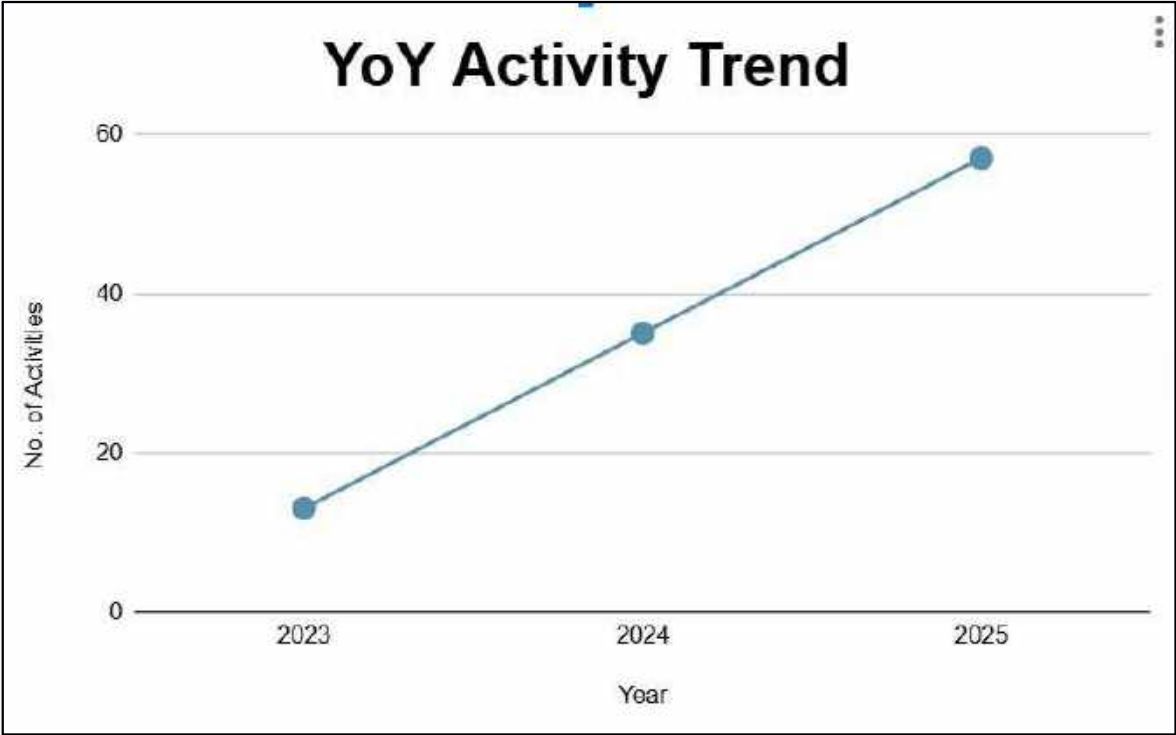
- **Four Executive Committee Meetings:** The four executive meetings covered strategic planning, financial performance, business alignment, innovation, and year-end review. Key topics included revenue growth, budgeting, technology advancements, market positioning, and future goals.
- **Four Quiz Competitions:** These events fostered a spirit of healthy competition and enhanced the technical knowledge of participants.
- **Two Placement Talks:** These sessions provided invaluable insights and guidance to students preparing for their careers, helping them navigate the complexities of the job market.
- **Four Alumni Interaction Sessions:** These interactions bridged the gap between current students and successful alumni, offering mentorship and real-world perspectives on various career paths.
- **Three Workshops:** Focused on essential skills such as resume building and professional email writing, these workshops equipped students with practical tools for their professional development.
- **Four Expert Talks:** Featuring distinguished speakers, these talks delved into advanced topics in electrical engineering and power electronics, broadening the horizons of our members.
- **One Logo Design Contest:** This competition encouraged creativity and engagement among students, celebrating the innovative spirit of the IEEE community.
- **One Tech Talk:** This event provided insights into current market software technologies and career pathways, aligning academic learning with industry standards.
- **Two-Days Robotics Workshop:** A comprehensive two-day event that offered hands-on experience and practical knowledge in robotics and IoT-based systems.
- **Webinar:** This provides valuable session on electric vehicles, battery management systems and deep insights into EV architecture, energy storage, safety, and smart battery control techniques.

- **Twenty One Days Yoga Workshop:** The virtual 21-day yoga sessions promoted fitness, mindfulness, and emotional balance through daily guided sessions on flexibility, breathing, and posture . It culminated in a special practice on International Yoga Day in 2025.

The dedication of our office bearers, members, and volunteers has been key to the success of our events. Their commitment to the IEEE STB HBTU-K, the IEEE PELS SBC HBTU-K and the IEEE WIE SBA HBTU-K has fostered a vibrant community for learning and professional growth. As we reflect on this year's achievements, we remain motivated to build on our strong foundation. We extend our gratitude to our faculty advisor, guest speakers, alumni, and all participants for their support. Together, we aim to uphold IEEE standards and contribute meaningfully to electrical engineering and power electronics. the IEEE community and make meaningful contributions to the field of electrical engineering and power electronics.

### **A.3 Year on Year (YoY) Performance**





## *Awards 2025:*

### **Outstanding Branch Chapter Advisor Award:**

We take immense pride in announcing that **Prof. (Dr.) Sanjiv Kumar**, Counselor of IEEE Student Branch HBTU-K and Faculty Advisor of IEEE PELS SBC HBTU-K & IEEE WIE SBA HBTU-K, has been honored with the prestigious **Outstanding Branch Chapter Advisor Award for 2024-2025**.

This esteemed recognition was conferred upon him on **January 12, 2025**, at **Courtyard by Marriott, Agra, Uttar Pradesh**, for his exceptional leadership, dedication, and contributions to the growth and success of the IEEE Student Branch at HBTU-K.

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## PART B : Organizational Activities

### B.1 Chapter Activities

#### *List of Events Organized, 2025*

##### **Annual General Meeting:**

**Date:** 10<sup>th</sup> January, 2025

**Time:** 04:00 PM to 05:00 PM

**Venue:** Simulation Lab Electrical Engineering Department, HBTU

**Mode:** In-Person

The Annual General Meeting (AGM) of the IEEE Student Branch HBTU-K and the IEEE Power Electronics Society Student Branch Chapter HBTU-k took place on January 10, 2025.



This gathering marked a significant milestone as it celebrated the successful conclusion of the 2024-25 session. During the meeting, a formal transition of responsibility occurred as the outgoing office bearers officially passed their roles to the newly elected members.

Dr. C.N. Singh, the Head of the Department of Electrical Engineering, and Dr. Sanjiv Kumar, who serves as the Counselor IEEE STB HBTU-K & Faculty Advisor IEEE PELS SBC HBTU-K, played a pivotal role in this event. They offered words of encouragement to the incoming office bearers, emphasizing the importance of

leadership and commitment within the organization.

Additionally, the meeting included a moment of recognition, where the contributions of the office bearers, members, and volunteers from the previous session were acknowledged and celebrated. This appreciation served not only to honor their efforts but also to motivate the new team to uphold the standards of excellence established in the past year. Overall, the AGM served as both a reflection on the achievements of the previous session and a platform for envisioning the future direction of the IEEE groups within the institution.



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### **Volunteer Training Program:**

**Date:** 25<sup>th</sup> January, 2025

**Time:** 04:00 PM to 05:00 PM

**Venue:** Simulation Lab Electrical Engineering Department, HBTU

**Mode:** In-Person

The training program for new IEEE members focuses on the essential technical tasks involved in membership. Participants will learn about various technical activities and the importance of their roles within the organization. Additionally, the program will provide comprehensive guidance on effectively using vTools and other IEEE websites. By the end of the training, members will feel equipped to engage with their technical responsibilities and navigate digital resources confidently, enhancing their overall experience as part of IEEE. The upcoming training program for new IEEE members is designed to equip participants with essential skills for their roles within the organization. It will cover various technical tasks that members are expected to undertake, emphasizing the significance of active participation in IEEE activities and initiatives. In addition to technical training, the program will provide hands-on instruction on how to efficiently navigate vTools and other IEEE websites. By familiarizing members with these digital resources, the program aims to enhance their engagement and effectiveness in both technical work and networking opportunities, ultimately contributing to their professional development within the IEEE community.



### **Workshop-1:**

**Date:** 15<sup>th</sup> February, 2025

**Time:** 11:00 AM Onwards

**Venue:** RadhaKrishnan Auditorium, HBTU Kanpur

**Mode:** In-Person

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The IEEE Student Branch HBTU-K in collaboration with HRD Cell HBTU-K organized a WORKSHOP on 'Right to Information Act-2005' on 25th February 2025 at R.K. Auditorium. The speaker for the event was Dr. Rahul Singh, Team Head, RTI Online State Resource Person Government of Uttar Pradesh. The registration tolls went up 236 for the workshop. It provided crucial insights into the act's provisions and its role in promoting transparency and accountability in governance. Dr. Rahul Singh effectively



clarified the process of filing RTI applications, empowering participants with the knowledge needed to exercise their rights as citizens. The presence of esteemed faculty like Pro Vice Chancellor Prof. Dr. Diptee Parmar and Deputy Registrar Prof. Dr. Vandana Dixit Kaushik added credibility to the session, inspiring students and participants to engage actively in civic matters. Overall, the workshop not only educated attendees about their rights but also encouraged them to utilize this vital tool for information access, fostering a more informed and responsible community.

### **Placement Talk 1:**

**Date:** 16<sup>th</sup> February, 2025

**Time:** 02:00 PM to 03:30 PM

**Mode:** Online

On February 16, 2025, the IEEE Power Electronics Society Student Branch Chapter HBTU-K (IEEE PELS SBC HBTUK), in collaboration with the IEEE Student Branch HBTU-K (IEEE STB HBTUK), hosted a Placement Talk via Google Meet. This event aimed to guide and inspire final-year students in the Electrical Engineering program regarding the placement process.

During the session, two accomplished students, Ms. Priyanshi and Mr. Utkarsh Srivastava, both final-year B.Tech students who had successfully secured positions at their desired companies, shared insights from their personal experiences. They discussed various aspects of their academic journeys, detailing how they navigated their education while preparing for job opportunities.

Priyanshi and Utkarsh elaborated on the challenges they faced throughout their preparation. They emphasized the importance of having a structured study plan and the need for consistency in their efforts. They also highlighted the various stages of the interview process, which included multiple rounds of interviews, group discussions (GDs), and different aptitude tests, each designed to assess specific skills and competencies.



The talk was particularly beneficial for the junior students, providing them with valuable knowledge about what to expect in future placements. The information shared by Mahak and Akshat served as a practical guide, helping to demystify the placement experience and motivating their peers to start preparing early. The session was well-received, and students left with a greater understanding of how to approach their upcoming placement opportunities successfully.

### **1<sup>st</sup> Executive Committee Meeting:**

**Date:** 01<sup>st</sup> March, 2025

**Time:** 04:00 PM to 05:00 PM

**Venue:** Simulation Lab Electrical Engineering Department, HBTU

**Mode:** In-Person

The journey of the chapter officially began with its first-ever Executive Committee Meeting held on March 01, 2025. This meeting brought together a group of passionate individuals who

are dedicated to the objectives of the society. Under the guidance of Dr. Sanjiv Kumar, who serves as the Counselor IEEE STB HBTU-K & Faculty Advisor IEEE PELS SBC HBTU-K, and Mr. Ashutosh Yadav, the Chair of the IEEE Power Electronics Society Student Branch Chapter at HBTI Kanpur, the meeting laid the groundwork for the society's vision and goals. During this initial gathering, the committee engaged in deep and meaningful discussions. These conversations were crucial for identifying key agendas that the student branch chapter would focus on. The committee members voiced their ideas and insights, contributing to a collaborative environment aimed at fostering growth and innovation within the society. Additionally, the Secretary of the IEEE Power Electronics Society Student Branch Chapter presented an annual calendar. This calendar outlined a series of proposed events scheduled for the coming months. These events aim to enhance learning opportunities, networking, and overall engagement among members. Overall, this inaugural meeting was a significant milestone that established a strong foundation for the society's future endeavors, aiming for comprehensive growth and success in its mission.

### Alumni Talk 1:

**Date:** 02<sup>nd</sup> March, 2025

**Time:** 03:00 PM to 04:30 PM

**Mode:** Online

On March 02, 2025, the IEEE PELS Student Branch Chapter HBTU-K organized an Alumni Talk via Google Meet. Mr. Devendra Chaudhary, 2018 batch Electrical Engineering who is currently serving as Assistant Commissioner, Income Tax. The session witnessed participation from all the years of electrical engg. department. A highlight of the event was the

interactive Q&A session, which allowed students to gain valuable insights into industry trends and career development. The meet also included virtual networking opportunities, enabling personalized interactions and





expanding professional connections.

### **Quiz On International Women's Day:**

**Date:** 08<sup>th</sup> March, 2025

**Time:** 02:00 PM to 03:00 PM

**Mode:** Online

In celebration of International Women's Day 2025, the IEEE Student Branch HBTU-K and IEEE Women in Engineering SBA HBTU-K organized an engaging Quiz Competition on March 8, 2025.



Themed around "Empowered Women, Empower the World," the event aimed to honor the strength, achievements, and contributions of women across the globe. The quiz featured insightful and interactive rounds designed to raise awareness and promote gender equality in STEM fields.

With enthusiastic participation from students and IEEE members, the event successfully combined learning with celebration, reflecting IEEE's ongoing commitment to diversity and inclusion in engineering and beyond

### **Logo Design Competition:**

**Date:** 08<sup>th</sup> March, 2025 to 10<sup>th</sup> March, 2025



**Mode:** Online

To commemorate International Women's Day 2025, the IEEE Student Branch HBTU-K, IEEE PELS Student Branch Chapter HBTU-K, and IEEE Women in Engineering SBA HBTU-K organized an exciting Logo Design Competition, inviting students to showcase their creativity and support for women empowerment.

Open to participants from all branches, the competition encouraged innovative logo designs aligned with the spirit of International Women's Day. The last date for submission was March 10, 2025, and the winner was awarded a special prize.



Participants joined a dedicated group to access competition guidelines and updates. The event witnessed a blend of talent and purpose, promoting the importance of visual storytelling in celebrating women in engineering and beyond.

**Technical Quiz-1:**

**Date:** 30<sup>th</sup> March, 2025

**Time:** 03:30 PM to 04:00 PM

**Mode:** Online

The IEEE PELS Student Branch Chapter HBTU-K "Technical Quiz - 1" on 30th March 2025. This intellectually stimulating quiz was designed specifically for first and second-year students, focusing on basic electrical concepts and general aptitude. The event served as a platform for budding engineers to test their foundational knowledge and quick-thinking abilities in a competitive yet supportive environment.



With active participation and enthusiastic engagement, the quiz not only tested technical understanding but also promoted peer learning and academic excellence.

## **2<sup>nd</sup> Executive Committee Meeting:**

**Date:** 15<sup>th</sup> April, 2025

**Time:** 01:20 PM to 02:20 PM

**Venue:** Simulation Lab Electrical Engineering Department, HBTU

**Mode:** In-Person

An Executive Meeting of IEEE Student Branch HBTU-Kanpur, IEEE Power Electronics Society Student Branch Chapter HBTU-Kanpur & IEEE Women In Engineering Student Branch Affinity HBTU-Kanpur was held on April 15, 2025.

The meeting was conducted under the guidance of Mr. Ashutosh Yadav, Chair, IEEE PELS SBC HBTU K, to deliberate on upcoming initiatives and strategic planning for IEEE Power Electronics Day celebrations. During the meeting, members discussed potential event ideas and student participations. A key proposal included organizing a two-day workshop on Electric Vehicles, focusing on emerging technologies and industry trends. The committee also



concluded that a quiz competition based on the workshop content would be conducted to reinforce learning outcomes and encourage active involvement.

### **Resonance'25 : Expert Talk 1:**

**Date:** 19<sup>th</sup> April, 2025

**Time:** 12:00 PM to 01:30 PM

**Venue:** RadhaKrishnan Auditorium, HBTU Kanpur

**Mode:** In-Person

On April 19, 2025, the IEEE Student Branch HBTU-Kanpur, IEEE Power Electronics Society Student Branch Chapter HBTU-Kanpur & IEEE Women In Engineering Student Branch Affinity HBTU-Kanpur under Resonance'25 organized a Expert Talk at RadhaKrishnan Auditorium. Mr. Nav Goel Batch (2007-2011) Electrical Engineering who is currently serving as Joint General Manager





(Finance), Dedicated Freight Corridor Corporation of India Limited. The enlightening session featured a distinguished alumnus who secured an All India Rank of 627 in the UPSC Civil Services Examination. The session aimed to broaden student's understanding of career opportunities beyond traditional engineering roles. The speaker shared his inspiring journey through the rigorous UPSC preparation process, offering valuable insights into time management, resource planning, handling setbacks, and maintaining long-term discipline.

### **Resonance'25 : BotStacle Race:**

**Date:** 19<sup>th</sup> April, 2025

**Time:** 02:30 PM Onwards

**Venue:** Department of Electrical Engineering, HBTU Kanpur

**Mode:** In-Person

As part of Resonance 2025, the IEEE Student Branch at HBTU-K organized the BotStackle Race on April 19, 2025, at the Department of Electrical Engineering. This exciting event brought together participants from various institutions to showcase their engineering prowess through custom-designed robots competing on a challenging track.

The track featured ramps, hurdles, and sharp turns, testing each robot's speed, precision, structural integrity, and control. This multifaceted competition emphasized the importance of innovation and practical problem-solving skills in robotics. Participants had to navigate their bots under pressure, adapting to the dynamic challenges presented throughout the race.



To incentivize excellence, a prize pool of ₹7,000 was awarded to the top-performing teams based on factors such as completion time, control, and consistency during their runs. The BotStackle Race created an engaging atmosphere that encouraged collaboration, creativity, teamwork among participants.

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### **Resonance'25 : BotSoccer Blitz:**

**Date:** 19<sup>th</sup> April, 2025

**Time:** 04:30 PM Onwards

**Venue:** Department of Electrical Engineering, HBTU Kanpur

**Mode:** In-Person

As part of Resonance 2025, The Bot Soccer Blitz organized by IEEE Student Branch HBTU-K was held on April 19, 2025. This competition is designed to showcase technological innovation, strategic thinking, and engineering excellence. The event took place in the Electrical Engineering Department, HBTU-Kanpur. The BotSoccer Blitz organized under Resonance '25 by IEEE Student Branch HBTU-K was held on April 19, 2025. This competition is designed to showcase technological innovation, strategic thinking, and engineering excellence. The event was structured around a dynamic, time bound soccer match format. Teams earned points by successfully directing their bots to score goals against the opposing side. Each match followed a standardized set of rules, with scoring based solely on goals achieved within the allotted time frame. A prize pool of ₹7,000 was allocated for the top-ranking teams, with awards conferred based on match victories and cumulative goal performance. The winning team received the official BotSoccer Blitz Trophy, honoring their excellence in designing, teamwork and strategic execution.



### **Resonance'25 : Expert Talk 2:**

**Date:** 20<sup>th</sup> April, 2025

**Time:** 10:30 AM to 12:30 PM

**Venue:** RadhaKrishnan Auditorium, HBTU Kanpur

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**Mode:** In-Person

On April 20, 2025, the IEEE Student Branch HBTU-K hosted an expert talk at the Radha Krishnan Auditorium as part of Resonance'25. Mr. Ankush Sharma, an Associate Professor in the Department of Electrical Engineering at IIT Kanpur, was the guest speaker.

His engaging session offered valuable insights into innovation, startup ecosystems, and leadership in today's technology-driven landscape. He emphasized the importance of creative thinking and the willingness to take calculated risks.



Mr. Sharma encouraged students to pursue entrepreneurship not just as a career path but as a means to effect social and technological change. His perspectives inspired attendees to think beyond conventional boundaries and to embrace the challenges and opportunities that come with entrepreneurship. This event aimed to equip students with the mindset and skills necessary to navigate the evolving tech world effectively.

**Resonance'25 : Simuthink:**

**Date:** 20<sup>th</sup> April, 2025

**Time:** 02:30 PM Onwards

**Venue:** Simulation Lab Electrical Engineering Department, HBTU

**Mode:** In-Person

SimuThink, a MATLAB-based circuit simulation competition, was held by the IEEE Student Branch HBTU-K as part of Resonance 2025. This event allowed students to apply theoretical concepts to practical circuit design challenges using MATLAB. Participants tackled on-the-spot design tasks, simulating accurate solutions in real time. The competition emphasized both speed and precision, with winners determined by their ability to solve the most circuit problems effectively within the given time frame. Participants showcased their problem-solving skills, working under pressure to find optimal solutions.



As a reward for their hard work and success, top performers received gift hampers to recognize and celebrate their achievements in the competition. Overall, SimuThink provided an enriching experience for students, bridging the gap between theory and practice in circuit design.

### **21 Days Yoga Challenge**

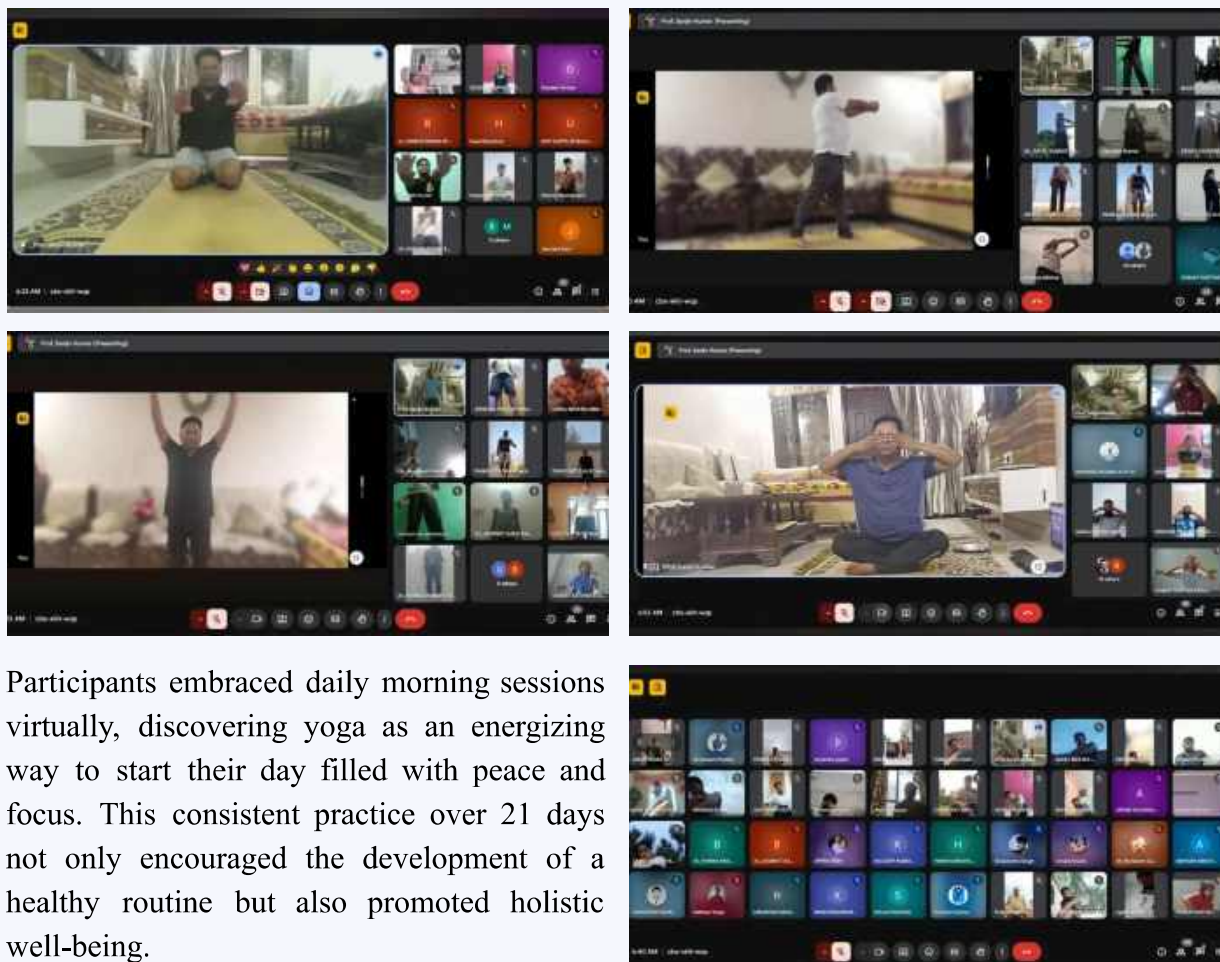
**Date:** 01<sup>st</sup> June, 2025 to 21<sup>st</sup> June, 2025

**Time:** 06:00 AM to 07:00 AM

**Mode:** Online

From June 1 to June 21, 2025, the IEEE Women in Engineering Student Branch Affinity at HBTU-Kanpur successfully organized an impactful "21 Days Yoga Challenge" conducted online. This initiative aimed to enhance physical wellness, boost mental clarity, and foster emotional balance among both students and faculty members. Each yoga session was

thoughtfully designed to address various aspects of the practice, including flexibility, core strength, mindfulness, posture alignment, and essential breathing techniques.



Participants embraced daily morning sessions virtually, discovering yoga as an energizing way to start their day filled with peace and focus. This consistent practice over 21 days not only encouraged the development of a healthy routine but also promoted holistic well-being.

The challenge culminated in a special session on International Yoga Day 2025, where participants celebrated the transformative power of yoga in everyday life.

This initiative served as a significant step towards integrating wellness practices into the student lifestyle, supported by the dedication of motivated mentors and volunteers. Ultimately, the "21 Days Yoga Challenge" successfully inspired a community committed to prioritizing well-being, making a positive impact on their overall health and mindset.

### **Alumni Talk 2**

**Date:** 16<sup>th</sup> June, 2025



**Time:** 11:00 AM to 12:30 AM

**Mode:** Online



On June 16th, 2025, the IEEE Student Branch HBTU-Kanpur, IEEE Power Electronics Society Student Branch Chapter HBTU-Kanpur & IEEE Women In Engineering Student Branch Affinity HBTU-Kanpur on the occasion of IEEE Power Electronics Day 2025 organized a Alumni Talk via Google Meet. Prof. Asheesh Kumar Singh,

Batch 1983-1987 Electrical Engineering who is currently serving at the Motilal Nehru National Institute of Technology, Allahabad. He also holds the position of Chair, IEEE Uttar Pradesh Section PELS Chapter.

The session provided a valuable opportunity for students to gain insights into academic leadership and experiences within the electrical engineering domain. He spoke about the role of professional organizations like IEEE in research opportunities, personal development and lifelong learning.



### **Alumni Talk 3**

**Date:** 17<sup>th</sup> June, 2025

**Time:** 11:00 AM to 12:30 AM

**Mode:** Online

On June 17th, 2025, the IEEE Student Branch HBTU-Kanpur, IEEE Power Electronics Society Student Branch Chapter HBTU-Kanpur & IEEE Women In Engineering Student Branch Affinity HBTU-Kanpur on the occasion of IEEE Power



Electronics Day 2025 organized a Alumni Talk via Google Meet. Mr. Brijesh Goswami, 2004 batch Electrical Engineering who is currently serving as Deputy General Manager Electrical Maintenance, NTPC Unchahar.



The session offered participants an in-depth understanding of career growth within the public sector, internships, industry expectations and preparation strategies for public sector undertakings. The meet explored the structured recruitment process in Public Sector Undertakings, emphasizing the importance of strong technical fundamentals and disciplined preparation required to succeed in competitive exams.

### **Placement Talk 2:**

**Date:** 18<sup>th</sup> June, 2025

**Time:** 03:00 PM to 04:30 PM

**Mode:** Online

On June 18th, 2025, the IEEE Student Branch HBTU-Kanpur, IEEE Power Electronics Society Student Branch Chapter HBTU-Kanpur & IEEE Women In Engineering Student Branch Affinity HBTU-Kanpur on the occasion of IEEE Power Electronics Day 2025 organized a Placement Talk via Google Meet. Ms. Radhika Verma and Mr. Yugal Kumar Jain, both final-year B.Tech students in Electrical Engineering who recently secured placements in

reputed companies, shared their experiences and practical insights into the placement preparation process. They guided on key aspects such as resume writing, assessment



strategies, test preparation and interview techniques. Emphasis was placed on the importance of consistent preparation, clarity of concepts, and communication skills. The talk proved to be highly motivating and informative, giving a realistic and structured perspective, equipping students with deep insights to approach the placement season with clarity and confidence.

### **Electric Vehicle Workshop Expert Talk-1:**

**Date:** 19<sup>th</sup> June, 2025

**Time:** 11:00 AM to 01:00 PM

**Mode:** Online

The IEEE Student Branch HBTU-Kanpur, IEEE Power Electronics Society Student Branch Chapter HBTU Kanpur & IEEE Women In Engineering Student Branch Affinity HBTU-Kanpur, on the occasion of IEEE Power Electronics Day 2025, organized an Electric Vehicles Workshop Expert Talk-1 under the mentorship of Prof. Sanjiv Kumar, Counsellor IEEE STB HBTU-K & Faculty Advisor IEEE PELS SBC HBTU-K. The technical session featured Mr. Ankit Bhatt Sir, Deputy Manager, Solar Energy Corporation of India Limited, who delivered a compelling expert talk on "Infrastructure of Electric Vehicle Charging Stations".



His presentation offered a deep dive into the evolving electric vehicle landscape in India, advancements in charging technologies, government policies such as FAME II, state-level EV adoption plans and future scalability prospects. The session further explored the integration of smart grid technologies and the emerging potential of Vehicle-to-Grid communication in building an efficient and responsive electric vehicle ecosystem. The event provided students with a valuable opportunity to broaden their understanding of the electric vehicle industry and emerging trends in the electric vehicle sector.

### **Quiz Based on Expert Talk 1:**

**Date:** 19<sup>th</sup> June, 2025

**Time:** 03:00 PM to 04:00 PM

**Mode:** Online

On the occasion of IEEE Power Electronics Day 2025, the IEEE Student Branch HBTU-Kanpur, IEEE Power Electronics Society Student Branch Chapter HBTU-Kanpur & IEEE Women In Engineering Student Branch Affinity to HBTU-Kanpu organized a Quiz Contest on Electric Vehicle Workshop Expert Talk-1 as a follow-up to the expert talk.

An interactive quiz was conducted to assess participant's understanding and the key concepts discussed during the session. The quiz was thoughtfully designed to cover a wide spectrum of topics related to electric vehicles, including charging infrastructure, government initiatives, smart grid integration and recent advancements in the EV ecosystem. Top performers were acknowledged, fostering a spirit of motivation among the attendees. The quiz engaged





participants in a stimulating and competitive environment encouraging them to reflect critically on the subject matter.

### **Webinar-”Electric Vehicles and its Battery Management System”:**

**Date:** 20<sup>th</sup> June, 2025

**Time:** 11:00 AM to 01:00 PM

**Mode:** Online

The IEEE Student Branch HBTU-Kanpur, IEEE Power Electronics Society Student Branch Chapter HBTU-Kanpur & IEEE Women In Engineering Student Branch Affinity HBTU-Kanpur on the occasion of IEEE Power Electronics Day 2025 organized a Webinar on

"Electric Vehicles and Its Battery Management System". The technical session was led by Prof. Sanjiv Kumar, Professor, Electrical Engineering Department, HBTU Kanpur. The webinar offered a deep dive





into the fundamental principles of electric vehicles, their architecture, and the critical role of Battery Management Systems in ensuring the safety, reliability, and efficiency of EV operations.

The insightful session highlighted the importance of energy storage technologies, thermal management,

state-of-charge and state-of-health estimation techniques, as well as the control strategies essential for optimal battery performance. Attendees had the opportunity to engage with the topic at both conceptual and application levels, gaining a comprehensive understanding of one of the most vital subdomains of the EV ecosystem. The session was not only academically fulfilling but also a testament to the unwavering dedication of Prof. (Dr.) Sanjiv Kumar, whose commitment to excellence, mentorship and knowledge dissemination continues to guide and inspire the IEEE student community at HBTU.

### **Quiz Based on Webinar:**

**Date:** 20<sup>th</sup> June, 2025

**Time:** 03:00 PM to 04:00 PM

**Mode:** Online

On the occasion of IEEE Power Electronics Day 2025, the IEEE Student Branch HBTU-Kanpur, IEEE Power Electronics Society Student Branch Chapter HBTU-Kanpur & IEEE Women In Engineering Student Branch Affinity HBTU-Kanpur organized a Quiz Contest on Webinar. To reinforce the concepts covered during the session, an interactive quiz was conducted, offering participants an engaging platform to assess their learning and analytical thinking.

The quiz was designed with a balanced mix of conceptual, application-based and analytical questions. It contains key areas such as battery architecture, the role and functioning of Battery Management System, SoC and



SoH estimation techniques and safety mechanisms used in electric vehicles. Top performers were acknowledged, fostering a spirit of motivation among the attendees. The quiz added an interactive dimension to the workshop and served as an effective method to consolidate the technical insights shared during the expert session

### **Surya Namaskar Yog Mudra Event:**

**Date:** 21<sup>st</sup> June, 2025

**Time:** 07:55 AM to 08:10 AM

**Mode:** Online

On June 21, 2025, the IEEE Women in Engineering Student Branch Affinity (WIE SBA) at HBTU Kanpur celebrated International Yoga Day with a special event focused on Surya Namaskar, or Sun Salutation. This sequence of yoga poses offers numerous physical and mental benefits, making it an ideal theme for our gathering.

Participants from diverse disciplines joined to explore Surya Namaskar, starting with a warm welcome and an introduction to its significance in energizing the body and mind. Skilled instructors led guided demonstrations, explaining each pose's physiological benefits and the importance of breath synchronization, creating a vibrant atmosphere of positivity.

The event also featured discussions on the spiritual significance of Surya Namaskar, encouraging attendees to reflect on the sun as a symbol of vitality. Many participants expressed feelings of rejuvenation and tranquility, fostering a strong sense of community. As we move forward, let's embrace the essence of Surya Namaskar in our daily lives for holistic well-being.



### **Expert Talk 2:**

**Date:** 25<sup>th</sup> June, 2025

**Time:** 02:00 PM to 03:00 PM

**Mode:** Online

On June 25, 2025, the IEEE Student Branch HBTU Kanpur hosted an insightful expert talk titled "How Technology is Influencing Business Processes," presented by Mr. Anurag Jain,



Head of Engineering SCM Core at Manufacturing Plant2Execute and Foundation India, SAP Lab India. With a strong academic foundation, including a B.Tech. from HBTU Kanpur (1995-1999) and an M.Tech. from IISc Bangalore (1999-2001), Mr. Jain shared his extensive knowledge and experience in the field.

The session began with a warm introduction, highlighting Mr. Jain's remarkable journey and achievements in the realm of engineering and technology. He delved into various ways technology has transformed business processes, emphasizing automation, data analytics, and artificial intelligence. His explanations were enriched with real-world examples from the manufacturing sector, illustrating how businesses have enhanced efficiency and productivity through innovative technological solutions.

Participants engaged in discussions about the challenges and opportunities presented by these advancements. Mr. Jain encouraged attendees to consider the impact of digital transformation on their own fields, sparking lively dialogues about adaptability and the future of work.



### **Third Executive Committee Meeting.:**

**Date:** 12<sup>th</sup> July, 2025

**Time:** 12:00 PM Onwards

**Venue:** Online Google Meet

**Mode:** Online

During the meeting, the office bearers presented a comprehensive overview of the various events that were organized in the last trimester.

They highlighted key metrics, such as attendance, participant engagement, and overall impact, while candidly discussing both the successes and



shortcomings of these events. In a constructive atmosphere, they gathered feedback from fellow members and volunteers, encouraging open dialogue to identify areas for improvement in future undertakings. Following this review, responsibilities for upcoming events were distributed among the office bearers. The team members engaged in strategic discussions to finalize the specific roles within different event committees, ensuring that all operational aspects were covered for an efficient execution.

The meeting concluded with the formal assignment of responsibilities for future events, alongside the formation of distinct teams tasked with each event's execution. This structured approach is designed to foster accountability, enhance teamwork, and ensure that all events meet the high standards expected by the IEEE community at HBTU.

### **IOCL Industrial Visit:**

**Date:** 06<sup>th</sup> August, 2025

**Time:** 10:00 PM to 05:00 PM

**Venue:** IOCL Plant, Kanpur

**Mode:** In-Person



An Industrial Visit to Indian Oil Corporation Limited (IOCL), Panki Refinery was organized by IEEE Student Branch HBTU-Kanpur on August 6, 2025.



The visit was coordinated under the guidance of Prof. Sanjiv Kumar Sir, Counselor, IEEE STB HBTU-K & Faculty Advisor, IEEE PELS SBC HBTU-K & IEEE WIE SBA HBTU-K, with the objective of providing students practical exposure to industrial processes and energy technologies. During the visit, participants explored refinery operations, automation systems, and electrical power distribution networks crucial for continuous plant functioning. A key highlight included interactive sessions with industry experts, who shared insights on petroleum refining, sustainability measures, and future energy trends. The visit proved valuable in bridging theoretical knowledge with real-world applications, fostering technical awareness and industrial learning among students.

### **Workshop on “Personality Development : Group Discussion & Interview**

#### **Guidance”:**

**Date:** 23<sup>rd</sup> August, 2025

**Time:** 02:00 PM to 05:00 PM

**Venue:** EE-1, Department of Electrical Engineering, HBTU Kanpur

**Mode:** In-Person

On August 23, 2025, the IEEE Women in Engineering Student Branch Affinity Group HBTU-Kanpur (IEEE WIE SBA HBTU-K) organized a Personality Development Workshop.

Dr. Kaumudi Singh Ma'am, Assistant Professor, School of Humanities & Social Sciences, HBTU Kanpur, delivered an insightful session on Personality Development and Interview Guidance. The session emphasized effective communication and key strategies to excel in interviews, helping students prepare for their professional journey. The workshop also featured engaging Group Discussion activities, where final-year students of the Electrical Engineering Department actively participated, enhancing their teamwork and communication skills. Dr. C.N. Singh Sir, Head of the Electrical Engineering Department, graced the workshop with his presence and inspiring words, adding immense value to the event. The



session was coordinated by Ms. Anwesha Singh, Vice-Chair, IEEE WIE SBA HBTU-K, under the constant guidance of Prof. (Dr.) Sanjiv Kumar Sir, Counselor IEEE Student Branch HBTU-K and Faculty Advisor IEEE PELS SBC HBTU-K & IEEE WIE SBA HBTU-K, ensuring the smooth conduct of the workshop.

### **Talk on "Benefits of IEEE in Engineering Education":**

**Date:** 27<sup>th</sup> August, 2025

**Time:** 11:00 AM to 12:00 PM

**Venue:** Shatabdi Bhawan, HBTU Kanpur

**Mode:** In-Person

On August 27, 2025, during the Induction Program of first-year students at HBTU Kanpur, the IEEE Student Branch HBTU-Kanpur, IEEE Power Electronics Society Student Branch

Chapter HBTU-Kanpur & IEEE Women in Engineering Student Branch Affinity HBTU-Kanpur organized a Talk on "Benefits of IEEE in Engineering Education."

The session was delivered by Prof. Sanjiv Kumar Sir, Counselor IEEE Student Branch,



Faculty Advisor - IEEE PELS SBC, and Faculty Advisor IEEE WIE SBA HBTU-Kanpur. Prof. Sanjiv Kumar Sir shared valuable insights on how IEEE acts as a global platform for students to strengthen technical knowledge, develop leadership skills, and connect with professionals worldwide. His talk highlighted the role of IEEE in preparing engineers to become future-ready professionals. The interactive session witnessed enthusiastic participation from first-year students, who gained awareness of the diverse opportunities and resources offered by IEEE.

### **Tech Talk on “Connecting to Digital Twins”:**

**Date:** 30<sup>th</sup> August, 2025

**Time:** 01:20 PM to 05:00 PM

**Venue:** EE1, Department of Electrical Engineering, HBTU Kanpur

**Mode:** In-Person

On August 30, 2025, the IEEE Student Branch HBTU-Kanpur, IEEE Power Electronics Society Student Branch Chapter HBTU-Kanpur & IEEE Women in Engineering Student Branch Affinity HBTU-Kanpur organized a Tech Talk on "Connecting to Digital Twins" at the Electrical Engineering Department, HBTU Kanpur.



The event featured both individual presentations and group presentations comprising 2-3 members, where participants delivered insightful talks on topics related to Digital Twins. A



total of seven teams presented their ideas, showcasing technical understanding and innovative perspectives. We were honored by the presence of Prof. C.N. Singh Sir, Head of the Electrical Engineering Department, whose motivating words added immense value and inspired all the participants. The session was coordinated by Mr. Mohammad Ajaj (IEEE Member), Mr. Kuldeep Kumar (IEEE Member), Ms. Tanvi Sepolia (Treasurer, IEEE WIE SBA HBTU-K), Mr. Pankaj Yadav (Treasurer, IEEE STB HBTU-K), and Ms. Sneha Arya (Secretary, IEEE WIE SBA HBTU-K), under the constant guidance of Prof. (Dr.) Sanjiv Kumar Sir, Counselor IEEE Student Branch HBTU-Kanpur and Faculty Advisor IEEE PELS SBC & IEEE WIE SBA HBTU-Kanpur, ensured the smooth and successful execution of the event.

### **Alumni Talk 4:**

**Date:** 03<sup>rd</sup> September, 2025

**Time:** 07:00 PM to 08:30 PM

**Venue:** Google Meet

**Mode:** Online

On September 3, 2025, the IEEE Student Branch HBTU-Kanpur, in collaboration with IEEE Power Electronics Society Student Branch Chapter HBTU-Kanpur & IEEE Women in Engineering Student Branch Affinity HBTU-Kanpur, organized Alumni Talk-4 of the

"Alumni Interaction Series 2025" under the guidance of Prof. Sanjiv Kumar Sir, Counselor IEEE STB HBTU-K, and Faculty Advisor IEEE PELS SBC & IEEE WIE SBA HBTU-K.



The event provided students the opportunity to interact with an esteemed alumnus from the Electrical Engineering Department (Batch 1999-2003), Mr. Shitiz Agarwal Sir, Vice President, Power Systems, Schneider Electric, Canada, and Advisory Board Member, Centre of Urban Energy at Toronto Metropolitan University. He shared his remarkable professional journey, global industrial experiences, and offered invaluable guidance on building a strong career in energy management. His insights into leadership roles and international opportunities served as an inspiration for all students. The session was further enriched by the gracious presence of Prof. Samsheer Sir, Vice Chancellor, HBTU Kanpur, as the Chief Guest, who shared motivating words and encouraged the students. We also extend our sincere thanks to Dr. C.N. Singh Sir, Head of the Electrical Engineering Department, for his valuable guidance. The session was successfully conducted under the constant support and guidance of Prof. (Dr.) Sanjiv Kumar Sir, whose commitment continues to inspire and guide students.

## IEEE Orientation 2025:

**Date:** 09<sup>th</sup> September, 2025

**Time:** 05:00 PM to 07:00 PM

**Venue:** RadhaKrishnan Auditorium, HBTU Kanpur

**Mode:** In-Person



On September 9, 2025, the IEEE Student Branch HBTU-Kanpur, in association with IEEE Power Electronics Society SBC HBTU-K and IEEE Women in Engineering SBA HBTU-K, organized the IEEE HBTU-K R.K. Orientation Program 2025 at Auditorium, HBTU Kanpur. The session was designed to acquaint students with the vibrant IEEE culture at HBTU, providing valuable insights into the objectives and initiatives of IEEE Student Branch HBTU-Kanpur, IEEE PELS SBC HBTU-K, and IEEE WIE SBA HBTU-K. Students learned about the benefits of IEEE membership, upcoming technical and non-technical activities, and various opportunities to actively engage in IEEE events to enrich their professional journey. A special attraction of the program was the Robo Soccer Demonstration, where student



volunteers experienced the excitement of the Robosoccer Game live on stage. Prof. Sanjiv Kumar Sir, Counselor IEEE Student Branch HBTU-Kanpur and Faculty Advisor IEEE PELS SBC & IEEE WIE SBA HBTU-K, officially opened the registrations for the upcoming Robotics Workshop. The session also featured exciting announcements: Dr. Kumar Gaurav Sir was introduced as the Faculty Advisor of the soon-to-be-established IEEE Communication Society, HBTU-K, and Dr. B.B. Sagar Sir as the Faculty Advisor of the soon-to-be-established Computational Intelligence Society, HBTU-K. These new societies will soon be launched in the Electronics Engineering and Computer Science & Engineering Departments, further expanding the IEEE ecosystem on campus. The event was successfully conducted under the mentorship and guidance of Prof. Sanjiv Kumar Sir, whose constant support played a pivotal role in making the program a grand success.

### **2 Day Robotics Workshop**

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- **Day-1 :**

**Date:** 11<sup>th</sup> October, 2025

**Time:** 10:00 AM Onwards

**Mode:** Online

The Robotics Workshop organised by the IEEE Power Electronics Society Student Branch Chapter, in association with the IEEE Student Branch and the IEEE Women in Engineering Student Branch Affinity Group, HBTU-Kanpur,



successfully conducted the workshop. The workshop began with the Inaugural Session, where Prof. (Dr.) Sanjiv Kumar Sir, Counselor IEEE STB HBTU-K and Faculty Advisor IEEE PELS SBC HBTU-K, and Workshop Convener gave an insightful speech and briefed all the participants about the workshop, followed by an inspiring speech by Prof. (Dr.) C. N. Singh Sir, Head of the Electrical Engineering Department, HBTU-Kanpur. After the Inaugural Session, the workshop commenced with the first lecture by Prof. (Dr.) Sanjiv Kumar Sir on the topic “Applications of



Microprocessors and Microcontrollers in Robotics”. Following this interesting and insightful session, the next session was conducted by Mr. Himanshu Maurya on the topic “Hands-on with ESP32 CAM: Programming,

Libraries, and Real-Time Video Control”. The participants were delighted to be a part of this workshop, where they learned various concepts, gained practical insights, and got their doubts clarified.

- **Day-2 :**

**Date:** 12<sup>th</sup> October, 2025

**Time:** 10:00 AM Onwards

**Venue:** Shatabdi Bhawan West Campus, HBTU

**Mode:** In-Person

The Robotics Workshop organised on the occasion of IEEE Day by IEEE PELS SBC, in association with the IEEE STB and IEEE WIE SBA HBTU-Kanpur began with a welcome session graced by eminent dignitaries. The session commenced with a warm welcome to Professor Dr. C. N. Singh Sir, Head of the Electrical Engineering Department, Professor Dr. Sanjiv Kumar Sir, Counselor – IEEE Student Branch, Faculty Advisor – IEEE PELS SBC and IEEE WIE SBA HBTU Kanpur, Dr. Bharat Bhushan Sagar Sir, Associate Professor, Department of Computer Science and Engineering and Dr. Kumar Gaurav Sir, Assistant Professor, Department of Electronics Engineering, HBTU-Kanpur. The event proceeded with an inspiring



address by Professor Dr. Sanjiv Kumar Sir, who highlighted the growing importance of robotics and innovation in shaping the engineers of tomorrow. This was followed by a thoughtful and encouraging speech by Professor Dr. C. N. Singh Sir who motivated participants



with his insightful words of wisdom. The technical session of the day was conducted by Mr. Ashutosh Yadav, Doctoral Researcher at HBTU-Kanpur and Chair of the IEEE PELS SBC HBTU-Kanpur, who guided the participants about 'Interfacing of ESP32-CAM with L298N Motor Driver'. The Assembly of Bot session led by Mr. Himanshu Maurya allowed participants to successfully assemble and test their bots using the kits and knowledge acquired from previous sessions. The workshop



concluded with the Valedictory Function, where Professor Dr. Sanjiv Kumar Sir presented the certificates to the participants and the organizers acknowledging their dedication throughout the workshop.

### **The IEEE Day Celebration :**

**Date:** 12<sup>th</sup> October, 2025

**Time:** 04:00 PM Onwards

**Venue:** Shatabdi Bhawan West Campus, HBTU Kanpur

**Mode:** In-Person

The IEEE Day Celebration, organized on 12th October, 2025 by IEEE PELS SBC in association with IEEE STB and IEEE WIE SBA, HBTU-Kanpur, was a momentous occasion filled with learning, collaboration, and celebration. The event was graced by the presence of Professor Dr. Sanjiv Kumar Sir, Counselor , IEEE Student Branch, Faculty Advisor , IEEE Power Electronics Society Student Branch Chapter and IEEE Women in Engineering Student Branch Affinity Group, HBTU-Kanpur, along with all the IEEE members, who came together to commemorate IEEE Day a special occasion dedicated to celebrating the global spirit of IEEE and its mission of advancing technology for humanity.



### **IEEE Membership Drive Awareness Session :**

**Date:** 14<sup>th</sup> October, 2025

**Time:** 03:30 PM Onwards

**Venue:** Electrical Engineering Department, HBTU Kanpur

**Mode:** In-Person

The IEEE Membership Drive Awareness Session organised by IEEE STB HBTU-K on 14th October, 2025 by IEEE PELS SBC, in association with IEEE STB and IEEE WIE SBA, HBTU-Kanpur The event aimed to enlighten students from various departments about the



benefits of IEEE membership, including access to exclusive technical resources, global networking opportunities, and professional development platforms.

Participants were also guided through the step-by-step process of obtaining IEEE membership, encouraging them to become a part of a global community of innovators and engineers.



#### **4<sup>th</sup> Executive Committee Meeting:**

**Date:** 19<sup>th</sup> November, 2025

**Time:** 05:00 PM Onwards

**Venue:** Regenta Central The Crystal, Kanpur

**Mode:** In-Person

The Executive Committee Members of IEEE HBTU-Kanpur had the opportunity to convene for the Fourth Executive Committee Meeting, held under the esteemed guidance of Prof. (Dr.) Sanjiv Kumar Sir, Counselor IEEE Student Branch HBTU-K, Faculty Advisor IEEE Power Electronics Society Student Branch Chapter



HBTU-K, and IEEE Women in Engineering Student Branch Affinity Group, HBTU-K. The meeting brought together the Office Bearers of IEEE STB, IEEE PELS SBC, and IEEE WIE SBA HBTU-K to collectively review the progress of recent activities and discuss strategic plans for the upcoming trimester. It served as an insightful platform for members to exchange



perspectives, reflect on ongoing initiatives, and outline new directions for impactful engagement. Major agenda points included the selection of new office bearers, a comprehensive review of events conducted from July to September, and planning of technical and professional activities for the current cycle.



### Part C : Financial Reporting

Account Statement of IEEE PELS SBC HBTU Kanpur for the Year 2025				
A.	Opening Balance as on 01/01/2025			
	i.	Opening Balance	82466.8	₹ 82466.8
B.	Fund Received from 01/01/2025 to 31/12/2025			
	i.	IEEE UP Section grant for PELS Day	103021	₹ 103021
		Total	₹ 103021	
C.	Interest Credited From 01/01/2025 to 31/12/2025			
	i.	INT on SB dt. 22/02/2025	566	₹ 3049
	ii.	INT on SB dt. 24/05/2025	491	
	iii.	INT on SB dt. 24/08/2025	539	
	iv.	INT on SB dt. 23/11/2025	1453	
		Total	₹ 3049	
D.	Income From Events			
	i.	Robotics Workshop 2025	120109	₹ 120109
		Total	₹ 120109	
E.	Total Fund Amount (A+B+C+D)			
	A	Opening Balance	82466.8	₹ 308645.8

Events Report

	B	Fund Received	103021.0	
	C	Interest on SB	3049.0	
	D	Income From Event	120109.0	
		Total	<b>₹ 308645.8</b>	
F.	Expenditure as on 01/01/2025 to 31/12/2025			
	i.	Expenditure for AGM 2024	1610	<b>₹ 102554</b>
	ii.	Membership Reimbursement (Year 24-25)	11028	
	iii.	Membership Reimbursement (Year 25-26)	16314	
	iv.	Expenditure of Robotics Workshop	66892	
	v.	Expenditure of ExCom-4	6710	
		Total	<b>₹ 102554</b>	
G.	Total Balance (A+B+C+D)-(F)			
	i.	A+B+C+D	308645.8	<b>₹ 206091.8</b>
	ii.	F	102554.0	
		Balance	<b>₹ 206091.8</b>	
H.	Closing Balance as on 31/12/2025			<b>₹ 2,06,091.80</b>

\*All Amount are in Rupees

## **Part D : Goals and Future Plans**

As we move forward, the IEEE Student Branch (STB), the IEEE Power Electronics Society Student Branch Chapter (PELS SBC), the IEEE Women In Engineering Student Branch Affinity (WIE SBA), the IEEE Communication Society Student Branch Chapter and the IEEE Computational Intelligence Society Student Branch Chapter at HBTU Kanpur aim to build upon our successes and expand our initiatives. Our primary goal is to foster a dynamic learning environment that bridges the gap between theoretical knowledge and real-world applications.

### **1. Expanding Technical and Professional Development:**

We plan to introduce more hands-on workshops, technical sessions, and industry-driven projects to provide students with practical exposure. Additionally, we aim to enhance soft skills through resume-building workshops, professional networking sessions, and mentorship programs with industry experts and alumni.

### **2. Strengthening Industry-Academia Collaboration:**

To provide better career opportunities for students, we will organize more industrial visits, internship opportunities, and collaborative research projects with leading companies and institutions. We also plan to invite distinguished speakers to share insights into emerging technologies and career pathways.

### **3. Increasing Student Engagement and Membership:**

We aim to expand our student membership by conducting awareness campaigns highlighting the benefits of IEEE affiliation. Special incentives and interactive activities, such as hackathons and coding challenges, will be introduced to engage a broader audience.

### **4. Promoting Research and Innovation:**

Encouraging students to participate in IEEE conferences, research competitions, and project-based learning will be a key focus. We also plan to create a dedicated research group within the chapter to foster innovative thinking in power electronics and related fields.

### **5. Community Outreach and Social Impact:**

We believe in giving back to society. Initiatives such as school outreach programs, STEM education camps, and sustainability projects will be implemented to spread knowledge and technical awareness beyond the university campus.

With these strategic goals in place, we are committed to ensuring the IEEE STB, IEEE PELS SBC and IEEE WIE SBA at HBTU Kanpur continue to be a hub for knowledge, growth, and professional excellence.

## Conclusion

The IEEE Student Branch, IEEE Power Electronics Society Student Branch Chapter and IEEE Women In Engineering Student Branch Affinity at HBTU Kanpur have successfully executed a diverse range of activities throughout the year 2025. With over **50+ events**, including **technical workshops, expert talks, alumni interactions, placement talks, quiz competitions, and robotics workshops**, we have provided students with unparalleled opportunities for hands-on learning and professional networking to grow professionally and personally.

The dedication of our office bearers, volunteers, and faculty advisors has been instrumental in our achievements. Their relentless efforts have ensured the seamless execution of our programs, creating an environment where students can thrive.

Looking ahead, we recognize that the landscape of technology and engineering is ever-evolving. To stay ahead, we must continue adapting, learning, and innovating. Our future initiatives, as outlined in our goals, will strengthen our mission to bridge academia with industry, foster research and innovation, and contribute to the professional development of our members.

As we conclude this year, we extend our heartfelt gratitude to all those who have supported our journey—our faculty advisors, guest speakers, alumni, volunteers, and every student who has been a part of this vibrant community. Together, we aim to make a lasting impact on the field of electrical engineering and power electronics, carrying forward the spirit of IEEE excellence.

The future is bright, and we are ready to take on new challenges with enthusiasm and determination.