

























BASAVESHWARA ENGINEERING COLLEGE BAGALKOTE-587102 **IEEE STUDENT BRANCH (35261)**







BEC-IEEE

YEARBOOK 2024

Volunteering is not a job it's our passion!









Mission of IEEE

IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity.

Vision of IEEE

IEEE will be essential to the global technical community and to technical professionals everywhere, and be universally recognized for the contribution of technology and of technical professionals in improving global condition.



About IEEE

The Institute of Electrical and Electronics Engineers (IEEE) stands as the world's largest technical professional organization, committed to advancing technology for the betterment of humanity. Founded on the principles of innovation and collaboration, IEEE's mission is to foster the development, application, and dissemination of electrotechnology and allied sciences to address global challenges, elevate the engineering profession, and improve the quality of life for its members and society at large.

As a multidisciplinary organization, IEEE serves a diverse community of professionals involved in various domains, including electrical engineering, electronics, computing, and related fields of science and technology. These areas form the backbone of modern civilization, driving advancements in industries such as telecommunications, energy, aerospace, healthcare, and automation. IEEE's influence extends beyond traditional engineering disciplines, embracing emerging technologies like artificial intelligence, quantum computing, renewable energy, and the Internet of Things.

The organization's global impact is amplified through its highly regarded technical publications, which rank among the most cited in their respective fields, and its prestigious conferences, which provide a platform for thought leaders, researchers, and practitioners to exchange ideas and collaborate on cutting-edge solutions. IEEE also plays a critical role in establishing industry standards that ensure compatibility, reliability, and safety across a broad spectrum of technological applications, shaping the way people interact with technology daily.

Beyond its technical contributions, IEEE is deeply invested in the professional and personal growth of its members. Through various educational programs, mentorship initiatives, networking opportunities, and career development resources, IEEE empowers engineers and technologists to excel in their fields. The organization also promotes lifelong learning, ethics, and leadership, recognizing the importance of fostering well-rounded professionals who can address the complex challenges of the future.

IEEE's vision extends beyond engineering itself, aiming to inspire a global community of innovators who are united by a shared goal: advancing technology to create a better and more sustainable world. By connecting professionals across disciplines and geographic boundaries, IEEE serves as a catalyst for innovation, collaboration, and positive change, reinforcing its status as a driving force in shaping the future of technology and society.



About BEC-IEEE

The IEEE Student Branch at Basaveshwar Engineering College (BEC), Bagalkot, was established in 1994 under the leadership of Dr. S.H. Jangamshetti with the support of the institutional head and management. Starting with just 16 student members, it has grown to over 350 student members and 40 professional members, achieving milestones in developing students into technical and professional leaders. Celebrating 30 years of excellence, BEC-IEEE has been a cornerstone of innovation, organizing diverse technical, non-technical, humanitarian, and professional activities to foster technological advancement for the benefit of humanity. Under the guidance of Branch Counselor Dr. Vijayalakshmi Jigajinni and with the encouragement of Principal Dr. B.R. Hiremath, the branch continues to thrive as part of the newly formed IEEE North Karnataka Subsection affiliated with IEEE Bangalore Section, inspiring and empowering future leaders in engineering and technology.





Editor's message

This edition serves as a comprehensive chronicle of the activities and accomplishments of BEC-IEEE. It begins with an insightful introduction to IEEE and BEC-IEEE, shedding light on their mission, vision, and core values. It also highlights the various initiatives undertaken by BEC-IEEE, including those led by its affinity groups and society chapters, all of which play a pivotal role in fostering a vibrant and dynamic community.

Among the many highlights, this edition features an in-depth look at the activities a platform for sharing cutting-edge insights from industry experts and thought leaders. It also showcases the workshops that have empowered participants with hands-on experience and practical skills. Furthermore, the interactive sessions emphasized collaborative learning and provided opportunities for members to network and exchange ideas.

We hope this special edition stands as a testament to our shared dedication, serving as both a celebration of past achievements and a source of motivation for the future.



Preface

Every journey has its milestones, and this newsletter marks a moment of reflection, celebration, and anticipation for what lies ahead. It's more than just a collection of events and achievements—it's a story of passion, innovation, and the unyielding spirit of our community.

In these pages, you'll discover highlights of our year—events that sparked creativity, collaborations that fueled growth, and ideas that shaped our future. It's a testament to the dedication of our students, faculty, and volunteers who have worked tirelessly to turn visions into reality.

Our deepest gratitude goes to the visionaries Dr.R.N.Herkal (DTE BVV Sangha), Dr.B.R.Hiremath (Principal BEC), Dr. Vijayalakshmi Jigajinni (Branch counselor BEC-IEEE), Faculty advisors, Professional members, Staff and volunteers.

This isn't just a newsletter; it's a reminder of what we can achieve together, a celebration of our shared journey, and a beacon for the endless possibilities yet to come. Welcome to the story of us.



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Message's



DR.B.R HIREMATH PRINCIPAL, BEC, BAGALKOTE

It gives me immense pleasure to acknowledge the exceptional efforts and accomplishments of the IEEE Student Branch of BEC Bagalkot over the past year under Branch Counselor Dr. Vijaylakshmi Jigajinni. The branch has consistently exemplified innovation, collaboration, and leadership, setting benchmarks in technical and professional development activities.

The IEEE Student Branch has successfully organized Conference NKCon-2024, numerous workshops, seminars, and hackathons, fostering a culture of technological curiosity and learning among students. Their initiatives activities, events and technical competitions, have significantly contributed to enhancing technical skills and industry readiness.

Additionally, the branch's commitment to addressing societal challenges through technology is commendable. I also applaud the student members and faculty advisors for their relentless pursuit of excellence and teamwork, which have brought laurels to the institution. The collaboration with industry and alumni further highlights their focus on bridging the gap between academia and the real world.

I extend my heartfelt congratulations to the IEEE Student Branch for their accomplishments. I am confident that their passion and efforts will continue to inspire and elevate the standards of our institution.

Wishing them all the very best for their future endeavors!





T.SRINIVAS
CHAIR- IEEE BANGALORE
SECTION

I am happy to know that Basaveshwar Engineering College, Bagalkot, is conducting the AGM of their IEEE Student Branch on December 24,2024. I wish the AGM and the student Branch a great success. I wish that the student branch newsletter will also be informative and useful to all. I hope you will excel in IEEE activities and conduct more directed programs for the benefit of students and your faculty. All the best.

T SRINIVAS





CHAIR IEEE-NKSS

The IEEE Student Branch at BEC, Bagalkot, is a vibrant community led by enthusiastic learners, innovators, and collaborators. Dedicated to fostering technological excellence and IEEE professional growth, the branch is committed to contributing toward a better society.

Our student volunteers, with the unwavering support of professional members, have demonstrated remarkable strength by organizing impactful events, including our flagship conference, NKCon-2024. This milestone event has further solidified our branch's reputation as one of the most promising in the region.

The presence and active participation of this student branch have played a pivotal role in making the subsection more dynamic and vibrant. We look forward to continuing this journey of innovation, collaboration, and excellence.





DR.VIJAYLAKSHMI JIGAJINNI

BEC - IEEE BRANCH COUNSELOR

It is with immense pride and joy that we pen this message for the release of the BEC-IEEE Newsletter. This publication is not just a compilation of activities and achievements; it is a celebration of the creativity, dedication, and collaborative spirit of the IEEE Student Branch of BEC Bagalkot. Over the past year, the branch has excelled in its mission to foster technological innovation, professional growth, and a spirit of service among its members.

The IEEE Student Branch has organized a variety of impactful events, such as technical workshops, expert talks, hackathons, and community outreach programs, which have enriched the academic environment and inspired students to excel. The highlight of the year, NKCON, brought together eminent speakers, industry experts, and enthusiastic participants, creating a platform for learning, networking, and innovation. This flagship event stands as a testament to the branch's ability to organize high-caliber technical events with precision and excellence.

The contributions of the Women in Engineering (WIE) affinity group deserve special mention. Their unwavering commitment to promoting diversity, equity, and inclusion in the STEM fields has been remarkable. By encouraging participation and leadership from women in technology, WIE continues to empower future trailblazers.

Equally commendable is the work of the Robotics and Automation Society (RAS), which has been at the forefront of cutting-edge advancements. The society's initiatives have provided students with hands-on exposure to emerging technologies, equipping them with the skills and confidence to tackle real-world challenges.

The combined efforts of the branch members, faculty advisors, and coordinators have laid the foundation for excellence, not only in academics but also in instilling values of teamwork, creativity, and perseverance. Each initiative undertaken reflects the ethos of the IEEE: advancing technology for the betterment of humanity.

As counselors, advisors, and mentors, we feel immense pride in witnessing the growth and accomplishments of the IEEE Student Branch. We encourage all members to continue pushing boundaries, embracing challenges, and striving for innovation in everything they do.

The release of this newsletter is a milestone that underscores the hard work and dedication of everyone involved. It is also an invitation for all readers to join us in celebrating the achievements of the past year and to look forward to the opportunities that lie ahead.

Congratulations to the editorial team for crafting this newsletter, and best wishes to the IEEE Student Branch for a future filled with even greater success.



The IEEE Power and Energy Society (PES) Student Branch Chapter (35261A) of Electrical and Electronics at Basaveshwar Engineering College, Bagalkote, was established in 2016. It serves as a professional society for students within the Department, aiming to organize social, professional, and technical activities. These activities strengthen and enrich the departmental community while publicizing ongoing research efforts. The chapter hosts social events, guest speaker talks, webinars by experts and students, and fosters communication between the Department and its students.



DR.SANGAMESH Y. GOUDAPPANAVAR
PES FACULTY ADVISOR

As the Advisor of the IEEE Reliability Society Student Chapter at Basaveshwar Engineering College, I commend our members for their outstanding contributions. The chapter's activities have enhanced technical skills, leadership, and teamwork, fostering a vibrant community. I appreciate the dedication of all volunteers and encourage everyone to continue striving for excellence in the future. Your efforts have significantly impacted our chapter's success and inspired future leaders.



DR.B.F.RONAD
RELIABILITY SOCIETY FACULTY ADVISOR

The IEEE Robotics and Automation Society (RAS) proudly commends the IEEE Student Branch of BEC Bagalkot for fostering innovation in robotics and automation. Your efforts in IoT, robotics workshops, showcase remarkable dedication to skill

development and problem-solving. Keep shaping the future through technology. Best wishes for continued success!



DR.VIJAYLAKSHMI JIGAJINNI RAS FACULTY ADVISOR WIE CO-ORDINATOR



As the Chapter Advisor of IEEE Communication Society (SBC35261F) at BEC I am proud of our community's progress and collaboration. ComSoc fuels our passion for communication technologies, while BEC IEEE offers a platform for innovation and leadership. Together we are advancing a smarter, more connected future." Continuous learning is the minimum requirement for any success in any field".



DR.JAYASHREE D MALLAPUR

"As the Chapter Adviosr of AESS BEC IEEE, I take pride in witnessing the growth and innovation fostered within our community. IEEE inspires us to push the boundaries of knowledge, while BEC IEEE serves as a beacon of excellence, empowering students to lead with technology and vision. Together, we are shaping a brighter future."



DR.JAYASHREE GHANTIMATH
AESS FACULTY ADVISOR

The Institute of Electrical and Electronics Engineers (IEEE) is the world's leading technical professional organization, dedicated to driving innovation and advancing technology for the betterment of humanity. It acts as a center for knowledge sharing, professional growth, and research. The BEC-IEEE Student Branch at Basaveshwar Engineering College promotes innovation, technical proficiency, and leadership by hosting impactful workshops, competitions, and events, linking students to a global professional community. It provides an active platform for students to innovate, lead, and achieve excellence.



DR.SADHANA BANGARSHETTI
CIS FACULTY ADVISOR



I'm delighted to see the IEEE Vehicular Technology Society becoming a hub for learning and innovation. This chapter helps students explore new technologies in vehicles, communication, and automation, connecting classroom knowledge to real-world applications. I encourage all students to engage in our activities and projects for valuable skills and experiences. Let's work together for a bright technological future!



DR. S.M.JIGAJINNI
VTS FACULTY ADVISOR





VARSHA METI IV year ,CSE Chairperson

Dear IEEE Student Branch Members,

As we approach the conclusion of another remarkable year, I am filled with immense pride and gratitude as I reflect on all that we have accomplished together. This year has been nothing short of extraordinary, marked by milestones that showcase our collective dedication, resilience, and commitment to growth. It gives me great pleasure to acknowledge and appreciate every member of our community. Your enthusiasm, innovation, and unyielding efforts have been the cornerstone of our success. From organizing hackathons and ideathons to hosting thought-provoking workshops on cutting-edge topics like satellites and AI tools, every event has been a testament to your passion for learning and excellence.

The highlight of this year has undoubtedly been hosting NKCON 2024. This monumental achievement has not only elevated our branch to recognition but also set a benchmark for excellence. Such an event requires unwavering dedication, and I am proud to say that our team rose to the occasion brilliantly. From meticulous planning to flawless execution, your hard work has truly paid off, leaving an indelible mark in the IEEE community. As Peter Drucker once said, "The best way to predict the future is to create it." Every effort we have made together this year reflects our shared commitment to shaping a brighter future. Whether it is acquiring new skills, stepping into leadership roles, or collaborating with peers across disciplines, I am thrilled to see how each of you is growing professionally. These experiences and friendships will serve as the foundation for a lifetime of success. As we look ahead to the future, let us continue to embrace this spirit of innovation and creation. Together, we will drive change, set new benchmarks, and carry forward the legacy of excellence that defines the BEC IEEE Student Branch.





MAHESH BALLOLLI
DATA ENGINEER,
TATA CONSULTANCY SERVICES
CHAIR 2021

I am Mahesh Ballolli, and I had the privilege of serving as the Chairman in 2021 and the Secretary in 2020 for the BEC-IEEE Student Branch. This journey has been a cornerstone in shaping my future, providing me opportunities to grow as a leader and a team player.

I sincerely thank Dr. S. H. Jangamshetti Sir for trusting me with these responsibilities and for being a constant source of support, guidance and being the backbone of BEC-IEEE. His encouragement has shaped my career and that of many others.

I am also deeply grateful to all my faculties, seniors, batchmates, and friends for their mentorship and support throughout our tenure, making it a memorable journey for everyone involved.

For me, IEEE is not just about technical learning—it's a platform to develop essential skills, build valuable networks, and create a positive impact. To all current members, keep hosting impactful events and seeking opportunities for growth. Your dedication will continue to drive the branch's success.

Wishing the BEC-IEEE Student Branch continued growth and innovation in the future. May you keep inspiring students and achieving new milestones, making BEC-IEEE a hallmark of excellence and learning.





Hey everyone. I am Srushti,

Being a part of BEC-IEEE, an incredible community has truly been the highlight of my time at BEC. Serving as the chairperson of IEEE was more than just a role—it was an experience that shaped me in ways I never imagined. It taught me the essence of leadership, the power of teamwork, and the importance of learning something new every single day.

I'm deeply grateful to each one of you for contributing to this journey. Together, we built not just events and projects but also memories that will stay with us forever. IEEE at BEC became more than just a student branch—it became a family, a place where ideas were born, challenges were overcome, and friendships flourished.

IEEE is a bridge between the classroom and the real world. It helps you grow, not just as an engineer but as a leader, a problem-solver, and a team player. The projects, the conferences, and the sheer energy of working together—these are experiences that set you apart. So, dive into every activity with all your heart. Trust me, it's worth it.

A future filled with joy, success, and endless learning. May you find the courage to chase your dreams, the strength to overcome challenges, and the humility to always keep growing. BEC-IEEE has given us wings—now it's your turn to fly higher than ever.





SHRIVATSA V GUDI
PURSUING MASTERS
AT VIT VELLORE
CHAIR 2023

"My Journey with IEEE Student Branch"

Joining the IEEE Student Branch during my engineering days was a turning point in my academic and personal development. As the Chairman, I had the honor of leading a talented and enthusiastic team. Together, we organized numerous technical workshops, guest lectures, and hackathons that fostered innovation and inspired fellow students to explore emerging technologies. I focused on creating an inclusive and collaborative environment where ideas could thrive, and members could develop both technical and leadership skills.

As the Webmaster, I was responsible for designing and managing the branch's digital platforms, ensuring effective communication and outreach. This role taught me the importance of creating engaging content and maintaining a robust online presence to connect with a broader audience.

Balancing these roles was challenging but immensely rewarding. It allowed me to hone my organizational, technical, and interpersonal skills. Above all, my time with IEEE gave me lifelong friendships, a deeper understanding of teamwork, and a passion for contributing to the tech community. These experiences have shaped me into the professional I am today, and I carry the lessons learned with great pride and gratitude.





VARSHA M IV year ,CSE Chairperson



SANJANA D IV year ,CSE Vice Chairperson



UDAY M IV year, CSE Treasurer



ARSLAN D IV year,CSE Webmaster



SIDDU D IV year ,CSE Webmaster



HARSHITA N IV year ,BT SAC Chairperson



VARSHITA J IV year ,E&C SAC Chairperson



VAIBHAV B III year ,E&C Project Lead



SAMBHAV O III year ,CSE Secretary



SHREYA J III year ,E&C Joint Secretary



VISHWAS H III year ,CSE Joint Treasurer



SHRAVANI U III year ,CSE Joint Web Master



VARUN S III year ,CSE Joint Web Master



AISHWARYA III year ,ISE Joint SAC



WIE TEAM



PREMA A IV year ,CSE Chairperson



RAKSHITA C III year ,CSE Secretary



PRERANA U III year ,AIML Joint Secretary

SAC TEAM



SNEHAL B IV year ,CSE SAC Coordinator



RAKSHITA G IV year ,E&C SAC Coordinator

SIGHT TEAM



ANUP M IV year ,CSE Chairperson



SATVIK P IV year ,CSE Vice Chairperson



ANIRUDH K III year ,ISE Secretary



SHRUSTI G III year ,CSE Joint Secretary



DESIGN AND CONTENT TEAM



RAHUL H IV year ,CSE Design Head



CHANNABASAVA B III year ,CSE Design Lead



SAHITYA P III year ,AIML News Letter head

MEMBERSHIP DEVELOPMENT TEAM



SPOORTI J IV year ,CSE Chairperson



ANIKET H IV year ,ISE Vice Chairperson

OPERATING COMMITTEE



ABHISHEK A IV year ,E&C Chairperson



ABHINAV K IV year ,ISE Vice Chairperson



OM S III year ,AIML Meeting Coordinator



EXECOM 2023-24 RAS TEAM



VISHAL N IV year ,AIML Chairperson



POOJA P IV year ,EEE Vice Chairperson

COMSOC TEAM



SUHAS HATTI

IV year ,E&C Chairperson



SUHAS KULKARNI

III year ,E&C secretary



ASHWINI IV year ,CSE Vice Chairperson



PRATIK JOSHI

IV year ,E&C Treasurer



COMPUTER SOCIETY TEAM



IV year ,CSE Chairperson



IV year ,CSE Vice Chairperson

AESS SOCIETY TEAM



KIRAN K IV year ,BT Chairperson



ALUR PRAVEEN
III year ,ISE
Secretary



III year ,ISE Joint Secretary



VIJAYKUMAR IV year ,EEE Chairperson



BHAGYA H IV year ,EEE Vice Chairperson



KEERTI B IV year ,EEE Vice Chairperson



RELIABILITY SOCIETY TEAM



VARUN N III year ,CSE Chairperson



II year ,EEE Secretary

COMPUTATIONAL INTELLIGENCE SOCIETY TEAM



III year ,ISE Chairperson



ARUN H III year ,ISE Vice Chairperson

VEHICULAR TECHNOLOGY SOCIET YTEAM



IV year ,E&C Chairperson



III year ,CSE Vice Chairperson



NOVUS-2023

Novus, a technical event organized by BEC-IEEE SB, was held on December 15-16, 2023, at BEC Bagalkot, with participation from students across various colleges. The event included five key activities: the Multidisciplinary Student Summit, where students explored diverse technical fields; Idea Presentation, showcasing innovative concepts; Pratibimbh, a photography contest focusing on technology; Mind Your Code, a coding competition; and Robo Maze Runner, a robotics challenge, a cultural night with some performances. The Industry Technology Conclave featured a panel discussion with industry experts Mr. Yeshwanth L.M, Mr. Shyamsudar Sedamkar, and Dr. Vijayalaxmi Jigajinni who shared insights on industry trends. Novus successfully combined technical challenges, knowledge sharing, and cultural experiences.







ANNUAL GENERAL MEETING-2023

The Annual General Meeting (AGM) organized by BEC-IEEE SB was held on December 27, 2024. The chief guest was Dr. Dhanu Pattanshetti, and Dr. D.S Jangamshetti(Principal), Dr. B.F. Ronad(Branch Counselor 2023), Dr. Vijayalakshmi Jigajinni(Faculty advisor RAS), and Mr. Shrivatsa Vaman Gudi(Chair 2023) on the dais. The event commenced with the charge being handed over to the new Branch Counselor, followed by the announcement of positions for the Executive Committee (Execom) for 2023–24, with the BEC-IEEE volunteers assuming their roles. Mr. Sarvesh, the Treasurer for 2022–23, presented the financial report for the year, and Mr. Shrivatsa Vaman Gudi shared the annual report for 2023. Branch Counselor Dr. Vijayalakshmi Jigajinni shared her plans for the upcoming year, while the new Chair of BEC-IEEE, Ms. Varsha Meti, outlined the action plan for 2024. Mr. Sambhav Oswal, Secretary of BEC-IEEE, delivered the vote of thanks. The evening concluded with a dinner arranged for all attendees.





NKCON-2024

NKCON-2024, the flagship conference organized by the IEEE North Karnataka Subsection and hosted by Basaveshwara Engineering College, Bagalkote, with technical co-sponsorship from IEEE Bangalore Section, was a three-day event packed with insightful activities and sessions. The pre-conference events on September 20, 2024, featured the official banner drop, inauguration, an entrepreneurship workshop, ice-breaking sessions, the Entrepreneur Challenge, and a Knowledge Transfer Protocol for participants from various colleges. Day 1 of the conference, September 21, 2024, commenced with the formal inauguration, followed by keynote sessions by Dr. Puneethkumar Mishra, Senior Scientist at TCS Research Bangalore, and Dr. Anant R. Koppar, CEO & Managing Director of Kushagramati Analytics Pvt. Ltd., Bangalore. The day included a panel discussion titled "Driving Digital Innovation: The IEEE Perspective" and another by the IEEE Women in Engineering (WIE) on "Women in Tech". There were paper presentations held in both online and offline modes, followed by a Banquet Talk by Mary Allen Randall, the 2025 IEEE President-Select. The day concluded with a gala night featuring cultural performances and a gala dinner. On September 22, 2024, Day 2 began with more paper presentations (online and offline) and keynote sessions by Dr. Aminesh Kumar Sahoo from IIT Dharwad and the Founder & CEO of Freshboxx Services Pvt. Ltd., Hubli. The conference concluded with a valedictory ceremony, marking the successful completion of this enriching and vibrant event.



NKCON-2024





F.A.I.L 2024

F.A.I.L 2024 was organized by BEC-IEEE (STB35261) on 19th and 20th October, was a professional development initiative exclusively designed for first-year students, bringing together over 380 participants and 70 volunteers. The event featured interactive sessions in five key areas: Canva, LinkedIn, GitHub, Discord, and AI tools for engineers. The Canva workshop focused on crafting visually compelling presentations, while the LinkedIn session provided strategies for creating impactful professional profiles. Participants gained hands-on experience with GitHub, learning essential version control and collaboration skills. A session on Discord explored its versatility for digital communication and team management, and the AI tools segment introduced cutting-edge technologies revolutionizing engineering workflows. With group activities, engaging mentors, and a strong emphasis on senior-student interaction, the event successfully empowered students with essential skills, enhanced professional networking, and prepared them to excel in their careers.

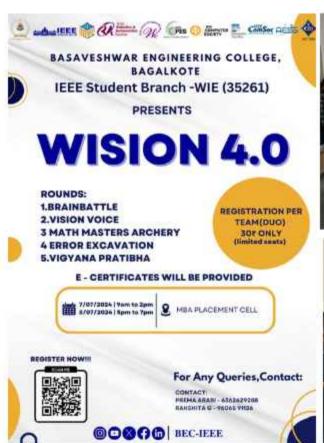






WISION 4.0

The WIE Affinity Group of BEC-IEEE Student Branch is organized an event on 7th & 8th July 2024. Wision 4.O in celebration of International Women in Engineering Day. This event simulates the recruitment and placement process and consists of five engaging rounds: Brain Battle, Vision Voice, Vigyana Pratibha, Math Masters Archery, and Error Excavation. Each round is designed to test different skills, helping participants assess their current level of preparation for placements. The event not only offers students the opportunity to challenge themselves but also provides valuable insights into areas for improvement, enabling them to refine the skills necessary for successful interviews. Wision 4.O aims to foster growth, enhance employability, and empower students to face their future placements with confidence.



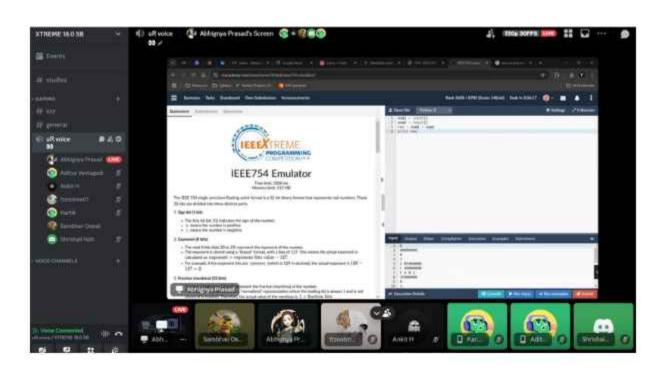






IEEE-XTREME 18.0

On October 26, 2024, the BEC IEEE Student Branch hosted the IEEE Xtreme 18.0 coding competition, a global 24-hour programming challenge that brought all the coding enthusiasts together. It was held online and more than 150 plus participants participated .This intense marathon tested participants' technical expertise and problem-solving abilities through a variety of complex and thought-provoking challenges. Held simultaneously across multiple time zones, the event attracted diverse teams eager to showcase their skills, emphasizing technical excellence while fostering a spirit of collaboration and healthy competition. The competition featured a thoughtfully designed set of problems to test various aspects of programming, creating a dynamic environment where participants competed while also learning and collaborating. Teams showcased remarkable teamwork and resilience, tackling challenges under pressure and fostering camaraderie. The 24-hour format added intensity and excitement, with participants demonstrating unwavering focus and dedication as they brainstormed and refined their solutions throughout the night. The event's atmosphere was both inspiring and electrifying, reflecting the passion and commitment of all involved, while highlighting BEC IEEE's dedication to promoting a thriving coding culture and providing students with a platform to excel.





SPARK

SPARK was an exclusive event designed for first-year students of all branches on 13th & 14th of June 2024. To provide the insights into placement activities while testing their aptitude, technological knowledge, and creativity. Participants competed in teams of two across four rounds. The first round, Intellect Quest, evaluated their aptitude and understanding of current technology trends. The second round, Design Different, required participants to create a visually appealing webpage on a given theme using Google Sites. In the third round, Resume the Role, teams prepared professional resumes tailored to a chosen career in their domain. Finally, the HR Interview round simulated real-world interview scenarios, conducted by MBA HR students, offering participants a realistic placement experience. The event aimed to equip students with essential skills and knowledge for their future professional journeys.



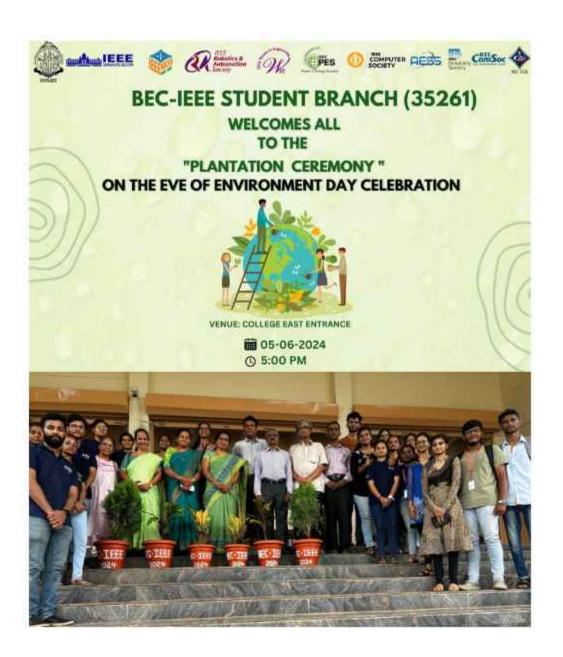






ENVIRONMENT DAY

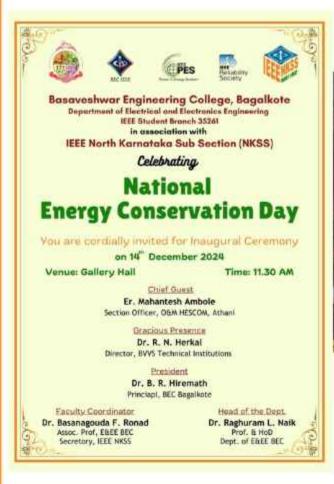
On 5th June 2024, Basaveshwar Engineering College celebrated Environment Day with a meaningful Plantation Ceremony, where saplings of various plants were planted across the college campus. The event was graced by the presence of our Principal ma'am Dr. Veena Soraganvi, and our Branch Counselor Dr. Vijaylakshmi.Jigajinni, along with Deans, Faculty Advisors of various societies, and volunteers from BEC-IEEE. This initiative reflected the collective commitment to sustainability and environmental conservation, fostering a greener and healthier campus for future generations.





NATIONAL ENERGY CONSERVATION DAY

The Department of Electrical and Electronics Engineering (E&EE) at Basaveshwar Engineering College, in collaboration with the IEEE North Karnataka Subsection, celebrated National Energy Conservation Day on December 14, 2024, to promote awareness of energy efficiency and sustainability. The event featured Mr. Mahantesh Ambole, Section Officer, HESCOM, O&M Division, Athani, as the chief guest, along with Principal Dr. B. R. Hiremath, Head of the Department Dr. R. L. Naik, IEEE Student Branch Counsellor Dr. Vijayalakshmi Jigajinni, and event coordinator Dr. Basanagouda Ronad. The program highlighted ongoing energy conservation initiatives and featured inspiring speeches by the chief guest and faculty, emphasizing practical energy conservation, innovative projects, and environmental protection. The event successfully motivated students to engage in energy-focused projects and reinforced the importance of sustainability.







Visit to Gurukul

On January 14, 2024, we visited a Gurukul in Kamkeri near Lokapur, Karnataka, a serene and blissful place exuding peace and tranquility. Its natural and open surroundings provide an ideal environment for a child's holistic growth, rooted deeply in Bharatiya Sanskriti. Students experience a unique and enriching education, making learning both enjoyable and meaningful. They engage in a diverse range of disciplines, including pottery, Mandala art, Kalakshetra, culinary arts, drawing and painting, physics, chemistry, biology, Sanskrit, mathematics, social sciences, yoga, meditation, Vedic astrology, and agricultural science. Emphasizing traditional practices, the Gurukul focuses on the protection of indigenous breeds of cows, animals, bees, and birds, while its food is prepared using naturally grown produce, fostering a close connection to nature and supporting farmers. The innovative use of cow products, such as cow urine and dung, extends to making medicines, soap, tooth powder, incense sticks, and dhoop, blending ancient wisdom with sustainable living. This harmonious integration of modern education and traditional practices makes the Gurukul a sanctuary for nurturing the body, mind, and soul.





IEEE DAY CELEBRATION

The IEEE Student Branch of Basaveshwar Engineering College (BEC-IEEE, STB35261) enthusiastically celebrated IEEE Day on October 1, 2024. The celebration began with a warm welcome and an introduction of the esteemed guest Dr. K. Chandrashekar, CoE Basaveshwar Engineering College, Bagalkote. Dr. Vijaylakshmi. S. Jigajinni, Branch Counselor, BEC-IEEE, delivered an inspiring speech emphasizing the pivotal role of IEEE in shaping students' academic and professional journeys while encouraging active participation in IEEE initiatives. Following this, a cake-cutting ceremony symbolized the unity and shared vision of the IEEE community. IEEE Day 2024 Ambassadors Omkar Sanjeev and Vishwas Hittalamani, shared their insights on the global significance of IEEE Day, commemorating the first gathering of engineers in 1884 to exchange technical ideas. They conducted an informative session highlighting the event's purpose and its ongoing recognition of IEEE members' contributions to advancing technology for humanity. The celebrations concluded on an inspiring note, leaving participants more motivated and deeply connected to IEEE's vision and mission.









INAGURATION OF BEC-IEEE VTS, Reliability and CIS.

On the occasion of IEEE Day, the IEEE Student Branch of Basaveshwar Engineering College (BEC-IEEE, STB35261) achieved a significant milestone by inaugurating three specialized IEEE societies: Vehicular Technology Society (VTS), Reliability Society, and Computational Intelligence Society (CIS). The event commenced with a warm welcome and an introduction of the esteemed guest, Dr. K. Chandrashekar, CoE of Basaveshwar Engineering College, Bagalkote, who emphasized the importance of establishing these new societies. Dr. Vijayalakshmi Jigajinni, the Branch Counselor, addressed the gathering, highlighting IEEE's vital role in fostering innovation and collaboration while commending the students for their enthusiasm and initiative in broadening the branch's scope. The event also saw the announcement of newly appointed chairs and vice chairs for the Reliability Society, VTS, and CIS, marking the beginning of a new chapter for the branch.





WEB-OLUTION

The BEC-IEEE Student Branch (35261) organized a two-day workshop, "WEB-OLUTION," at Basaveshwar Engineering College to help students from all branches create professional portfolios and websites using no-code and open-source tools. The workshop focused on enabling participants to design visually appealing online portfolios without programming knowledge. On Day 1 (October 7, 2024), participants learned to use WixStudio through demonstrations, hands-on practice, and a competition to redesign a website template with a sports theme. Day 2 (October 8, 2024) introduced Webflow, featuring demonstrations, hands-on replication of a sample website, and insights into fonts and color theory. The event made website building accessible to all, especially non-IT students.







EVOLVE-X

The EvolveX event, organized by the second-year members of BEC IEEE, aimed to foster innovative thinking and enhance problem-solving skills among participants. Spanning two days, the event commenced on December 12, 2024, with an Aptitude Test Round that assessed analytical, logical, and problemsolving abilities, followed by a discussion session offering valuable strategies to tackle challenges. On December 15, the event resumed with a formal inauguration at 9:30 AM, welcoming panellists, faculty, and participants. The second round featured an Idea Presentation segment, where participants proposed creative solutions to real-world problems, evaluated for their innovation, feasibility, impact, and presentation skills, with panellists providing constructive feedback. Fun activities were interspersed to foster camaraderie and relaxation. The final round, the Buzzing Round, a dynamic quiz held at 2:30 PM, tested participants' quick thinking and accuracy, infusing the event with energy and excitement. Concluding with a vote of thanks, the organizers recognized the faculty's guidance, the volunteers' dedication, and the participants' efforts, as certificates were distributed to winners and participants.





VISIT TO SUBREGIONAL SCIENCE CENTRE

On October 10th, 2024, student volunteers from BEC IEEE visited the Sub-Regional Science Centre in Bagalkote for an enriching and engaging experience. The visit aimed to deepen understanding of scientific concepts through hands-on exhibits, observe real-world applications of science and technology, and inspire creativity and innovation through exposure to groundbreaking advancements. The interactive exhibits and live demonstrations reinforced previously learned concepts, fostered curiosity, and encouraged inquisitiveness, ultimately enhancing appreciation for the critical role of science and technology in solving real-world challenges.





INAGURATION OF COMSOC SOCIETY

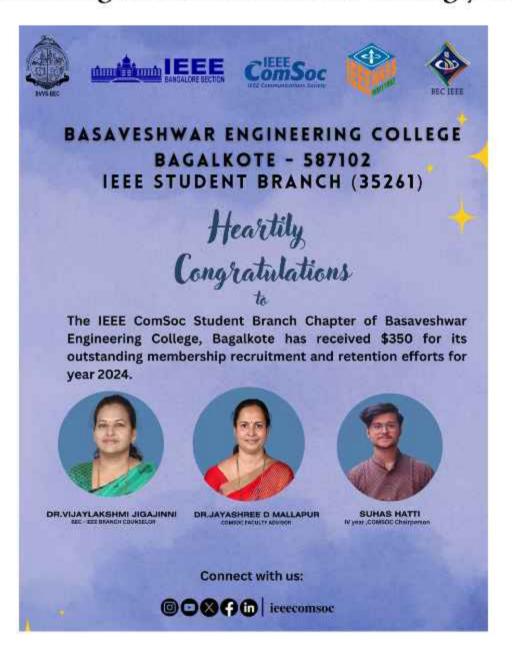
The inaugural ceremony of the Communication Society at BEC IEEE marked a significant milestone in the journey of technological advancement and academic excellence. The event brought together esteemed dignitaries, faculty members, students, and enthusiasts from the realm of communication technology. As the society embarks on its journey, it is poised to become a hub of knowledge dissemination, research excellence, and technological innovation, contributing significantly to the advancement of communication technology and its myriad applications in the digital age.





COMSOC SOCIETY

We are excited to share that BEC-IEEE COMSOC has received a \$350 award for outstanding membership recruitment and retention efforts in 2024! This recognition reflects our team's dedication to growing and engaging our community. We look forward to building on this success in the coming year!





WORKSHOP ON TINKERCAD

BEC-IEEE Communication Society had conducted a workshop called "Unleashing Creativity with Tinkercad" which was held at the EC Department, attracting 150 participants from different braches. The workshop aimed to introduce participants to the fundamentals of 3D design using Tinkercad, guiding them through creating their initial models and exploring advanced features. Volunteers played a pivotal role in teaching various Tinkercad tools, challenging participants to design models and circuits, fostering an engaging and interactive learning environment. After completing their designs, prizes were awarded to the top performers. Participant feedback was overwhelmingly positive, particularly regarding the clarity of instruction and engaging content. The workshop not only helped participants develop a solid foundation in 3D modeling but also encouraged creativity.







PAPER PRESENTATION

A Technical Paper Presentation event hosted by BEC-IEEE Communication Society, in collaboration with BEC-IEEE Vehicular Technology Society and BEC-IEEE Computer Society. This event is a formal platform where individuals or teams present research, technical findings, or innovations to an audience, typically in academic or professional settings. Participants submit papers for review, and accepted ones are presented in 10–20 minute sessions, covering an abstract, problem statement, methodology, results, and conclusion. Visual aids support the presentation, followed by a Q&A session for interaction. This event fosters networking, feedback, and skill development, particularly in public speaking and technical writing. In competitive settings, presentations are evaluated for originality, clarity, and technical depth. Exceptional work may be recognized with awards or publication, contributing to professional growth and knowledge dissemination.







SDP- IOT for Agriculture and Domestic Applications

From January 23-27, 2024, a series of enriching sessions unfolded, starting with Mr. Hariharan's insightful teachings on sensors, the Arduino IDE, and Tinker Card, emphasizing their practical applications in electronics and programming. Participants gained hands-on experience writing Arduino code to control a DC motor with IR sensors, enhancing their skills in embedded systems. A farewell event on Day 4 highlighted the learners' gratitude and camaraderie. On the final day, Suhas R Hatti delivered an engaging session on communication protocols like Modbus, RS232, and RS485, followed by a dynamic group discussion on the Indian Political System and Geopolitics. The program skillfully blended technical knowledge with global awareness, leaving a lasting impact.





2-Days Workshop on Cybersecurity & Ethical Hacking

The Robotics and Automation Society, in collaboration with the Computer Society, organized a two-day workshop on Cybersecurity and Ethical Hacking for first-year students on December 23 and 24, 2024. The workshop aimed to introduce students to the fundamentals of cybersecurity and ethical hacking, with practical sessions led by expert resource persons, Mr. Vinith K and Mr. Sujaykumar Adoor. The workshop provided participants with valuable insights into cybersecurity principles, ethical hacking techniques, and real-world applications, sparking interest and enthusiasm among students. This initiative successfully equipped students with essential skills in the growing field of cybersecurity, offering a strong foundation for their future academic and professional pursuits.









SPARKING CHARGE

A dynamic quiz competition was organized as part of the Sparking Charge event, inviting enthusiastic participation from first-year students in the Electrical and Electronics department on 24th April 2024. Centered on the theme "Empowering Electric Mobility Innovation," the competition featured two engaging rounds that tested participants' knowledge and problem-solving skills. The first round, hosted on Menti.com, challenged contestants with thought-provoking multiple-choice questions, while the second round—a 20-mark written test—featured diverse formats, including multiple-choice, fill-in-the-blanks, and problem-solving tasks, encouraging analytical and theoretical prowess. Outstanding participants were honored with e-certificates and badges, celebrating their achievements and fostering a spirit of academic excellence within the community.









IEEE PES DAY CELEBRATION

On 24th April 2024 BEC-IEEE PES celebrated IEEE PES Day. The theme was "Empowering Electric Mobility Innovation" with a vibrant event highlighting advancements in Power and Energy. The inauguration ceremony, led by Incharge HOD Prof. R.S. Allurkar and IEEE PES Faculty Advisor Dr. Sangamesh Goudappanavar, underscored the importance of IEEE PES Day. Distinguished guest Dr. Vijaylakshmi Jigajinni, IEEE SBC Branch Counselor, graced the event, which was skillfully anchored by Miss Meghana B. S. and Miss Harsha V. Kulkarni. The ceremony featured a warm welcome speech by Mr. Bharatesh B., an overview of IEEE PES Day by Dr. Sangamesh Goudappanavar, and an enlightening talk on IEEE membership benefits by Dr. Vijaylakshmi Jigajinni. A celebratory cake-cutting marked the unity and collaboration within the IEEE community, followed by presidential remarks by Prof. R.S. Allurkar, emphasizing IEEE's pivotal role in shaping the future of engineering and technology. The event concluded with a heartfelt vote of thanks delivered by Miss A. Nandita, expressing gratitude to all attendees, organizers, and sponsors.







AeroTech X AI Nexus

On October 26, 2024 BEC-IEEE(STB-35261) hosted a series of insightful knowledge-sharing sessions organized by AESS and CIS. The day began with a morning session under AESS, where Dr. Mahesh Lohit delivered an engaging presentation on space science, covering topics such as satellites, stars, planets, constellations, and the vastness of the universe. He also demonstrated software tools like Celestia, Stellarium, and GMAT, which allow users to visualize and explore celestial bodies and events. His presentation not only deepened attendees' understanding of space but also sparked curiosity and inspiration. At the afternoon CIS organized an interactive session on Artificial Intelligence, led by Shreyas Rathod and Varun S. Naik. Their 'Student Talk' introduced a variety of AI tools and explored their diverse applications, offering valuable insights into the rapidly evolving field of AI. The event which lasted for eight hours and saw 96 participants successfully combined knowledge on space science and AI technologies, leaving participants with a deeper appreciation for both the wonders of the cosmos and the vast potential of AI.

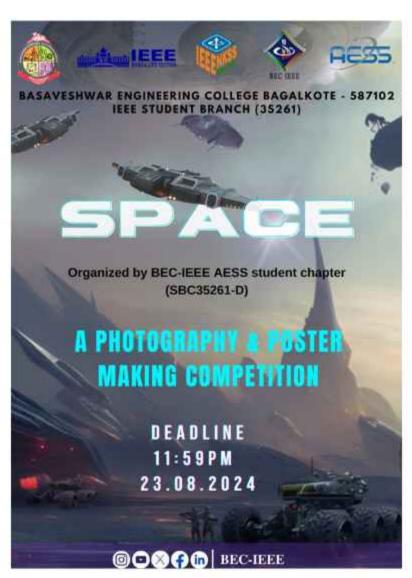






SPACE: A PHOTOGRAPHY AND POSTER CONTEST

The Poster Making and Photography Competitions was organized by BEC-IEEE AESS society in online mode and centered around the captivating theme of "SPACE," was successfully concluded. These events provided a platform for participants to channel the creativity and imagination, encouraging the participants to explore the vast mysteries and wonders of space through visual art and photography. Taking place from 8:00 PM on August 21, 2024, to 11:59 PM on August 23, 2024 the competitions saw an enthusiastic response, with participants showcasing their talent and passion for the cosmos in innovative and inspiring ways. The aim was not only to engage participants in artistic expression but also to deepen their appreciation for space and its limitless possibilities.





CODE FOR GREEN

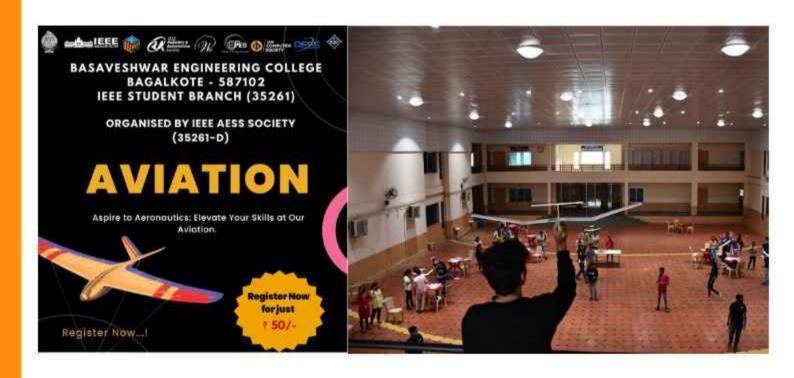
The "Code for Green" a 8 hour hackathon was organized by the BEC-IEEE AESS at Basaveshwar Engineering College Bagalkot on 9th June 2024. It successfully brought together passionate coders and innovators to develop technology-driven solutions for environmental sustainability. The event aimed to foster innovation in the field of environmental challenges, encourage interdisciplinary collaboration, and raise awareness about the critical role of technology in addressing these issues. Participants from various disciplines and institutions collaborated to create impactful projects that addressed pressing environmental concerns. The hackathon provided a platform for students to showcase their coding skills and innovative ideas, while also highlighting the potential of technology to drive positive change. The event was a resounding success, not only emphasizing the importance of sustainable solutions but also fostering a spirit of collaboration and creativity among young innovators. BEC IEEE is committed to continuing such initiatives that inspire and empower students to contribute toward a greener, more sustainable future.





AVIATION

BEC-IEEE AESS organized a workshop Aviation on 21st January 2024. It was a glider workshop which had covered essential topics such as the history and significance of gliders, basic aerodynamics, the structure of gliders, and practical insights into glider maintenance. Participants had the opportunity to engage in hands on activities, including building simplified glider models and experiencing virtual glider flights through simulations. The Glider Workshop was designed to be inclusive, welcoming participants with varying levels of expertise in aviation. By combining theoretical knowledge with practical experiences, the aim of event was to create an enriching learning environment that has fosters a deeper understanding of gliders and the joy of soaring flight.





IDEA-IGNITE

The "Idea Ignite" event was organised by BEC-IEEE VTS on 28th and 29th October 2024. The theme was Green Drive Ahead: Pioneering Electric Mobility and Hybrid Innovation, was organized by the BEC-IEEE Reliability Society Chapter at Basaveshwar Engineering College, Bagalkot. The event explored sustainable innovations in electric and hybrid mobility, featuring a debate competition where participants analyzed topics like EVs, hybrid technology, and green transportation. Participants delivered well-researched arguments, enhancing critical thinking, public speaking, and technical knowledge. Discussions emphasized EVs' potential to reduce carbon footprints, hybrid innovation bridging traditional and electric vehicles, and advancements in energy storage, renewable integration, and sustainable materials. The event fostered collaboration and inspired innovative solutions for sustainable mobility.





TECH TALKS

Dr. Jayshree D. Mallapur HOD & Faculty advisor COMSOC, shared her expertise on "Mobile Communication," covering various forms of interaction such as voice calls, text messaging (SMS), multimedia messaging (MMS), email, video calls, and internet browsing. highlighted how mobile communication enables individuals to stay connected, share information, and access services while on the move. Additionally, she delved into the evolution of communication technologies across generations, explaining their functions and applications. Dr. Mallapur also imparted valuable knowledge on the "Design and Development of Fuzzy-Based Algorithms for Resource Allocation and Routing in Wireless Networks," offering insights into innovative approaches for optimizing wireless communication systems.





Dr. V.C. Kagawade delivered an engaging session showcasing how AI techniques can simplify complex problems and enhance decision-making across various fields. Key topics included Fuzzy Systems, highlighting fuzzy logic for managing uncertainty and its applications in control and expert systems; Neural Networks, offering insights into deep applications learning with in pattern recognition, prediction, and decisionmaking, Evolutionary algorithms, emphasizing optimization inspired by natural selection and their practical use in engineering and adaptive systems; and Genetic Algorithms (GA), focusing on evolutionary optimization for problemsolving, robotics, and AI-driven decisionmaking. The session provided a comprehensive understanding of these advanced techniques and their real-world relevance.



Student Scholarship 2024



BASAVESHWAR ENGINEERING COLLEGE BAGALKOTE - 587102 IEEE STUDENT BRANCH (35261)



CONGRATULATIONS

KAVITA KULKARNI FIRST YEAR MECH. ENG

For Receiving
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VIJAYKUMAR S PURUTAGERI FINAL YEAR E&E ENG

For Receiving
IEEE BANGALORE SECTION
STUDENT SCHOLARSHIP 2024



SB-MEETINGS





PHOTO GALLERY









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