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AURORA

AN EXCLUSIVE MAGAZINE BY IE(I) ELECTRICAL CHAPTER NSSCE

"WHERE EVERY EVENT FIND ITS GLOW"

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IE(I) ELECTRICAL CHAPTER NSSCE 2023-24

Presents

AURORA

"Where every event find its glow"

"In the heart of every story lies the essence of teamwork"

About NSS College of Engineering

N S S College of Engineering, Palakkad is one of the most reputed, premier engineering educational institution in Kerala affiliated to APJ Abdul Kalam Technological University. It was established in 1960 by Nair Service Society under the leadership of late Bharatha Kesari Mannathu Padmanabhan. The college has an enviable heritage and legacy of grooming brilliant engineering professionals who later made their mark in industrial and other sectors of the country and abroad. At present, the institution offers B.Tech degree courses in six branches and M.Tech degree courses in Communication Engineering, Power Electronics, Computer Science & Engineering, Structural Engineering, Computer Integrated Manufacturing, and Biomedical Engineering. The College is an approved research place of APJ Abdul Kalam Technological University.

Department of Electrical & Electronics Engineering

Department of Electrical & Electronics Engineering is started in the year 1960. The department has established itself as one of the best and prestigious departments of NSS College of Engineering. The department has well experienced and committed faculty having specialization in different areas in Electrical and Electronics Engineering. The department is accredited by National Board of Accreditation AICTE. The department of EEE is offering B.Tech and M.Tech (Power Electronics) programmes. It has number of well equipped laboratories and provides excellent facilities for learning, research and development and consultancy works. Department periodically organises seminars, conferences, workshops, industrial visits and guest lectures are for the benefit of both the students and the faculty.

The Institution of Engineers (India)

The Institution of Engineers (India), or IE(I), is a professional engineering organization in India. It was established in 1920 and is headquartered in Kolkata. IE(I) promotes and advances the engineering profession in India, offering various programs, events, and publications. IE(I) has served the engineering fraternity for over a century, boasting a national and international presence through 125 centers, 6 overseas chapters, 7 fora, and the Engineering Staff College of India. It acts as a platform for engineers to exchange knowledge, network, and contribute to the development of the engineering community in the country.

About the Chapter

The Institution of Engineers (India) (IE(I)), Electrical Chapter NSSCE Palakkad started in 1990's, inspired from the largest multi-disciplinary professional body of engineers at its national level , is committed towards dissemination of ideas, information and knowledge in the frontier areas of science, engineering and technology through hosting of various technical activities at its various centers.

Beyond hands-on workshops and seminars, the society organizes industrial visits to prominent sites also. Moreover, the society actively engages in community fostering initiatives, exemplified by heartfelt visits to institutions such as schools for mentally challenged and many more. The spectrum of activities reflects the society's unwavering dedication to both academic and compassionate pursuits.

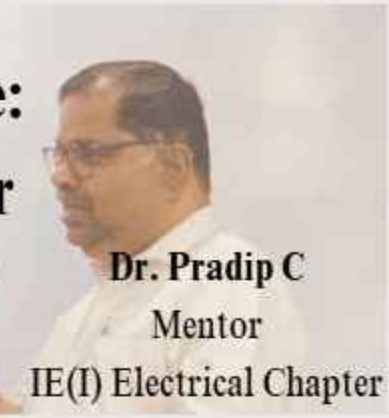
It is my pleasure to reach out and extend my strongest support to the IE(I) Electrical Chapter of NSSCE. The chapter plays a vital role in fostering a culture of learning, collaboration, and professional development among students. The consistent string of successful events organized by the chapter is truly commendable.

It is truly inspiring to witness your dedication in creating a gateway to such enriching opportunities, empowering students to become well-rounded professionals in the field of electrical engineering. Hoping that the official magazine of the chapter – AURORA 2024, shall indeed be an eye-opener to all the students. I extend my heartfelt congratulations on your past achievements and wish the IE(I) Electrical Chapter continued success and prosperity in all your future endeavors.

It is with great pleasure that I bring to your attention the thriving" Institute of Engineers (India) Electrical Chapter at our esteemed college. This esteemed organization has consistently garnered recognition as one of the leading platforms for fostering professional development and collaborative skills among its members. I strongly encourage you to explore the diverse resources offered by the chapter, actively participate in their events and workshops, and connect with other passionate students

Wishing the best for the annual magazine - AURORA 2024 & also for all the future endeavors of the chapter.

Celebrating a Journey of Excellence: A Souvenir of the Electrical Chapter



Dr. Pradip C
Mentor
IE(I) Electrical Chapter

As we gather to commemorate the vibrant history of the Electrical Chapter, it is with great pride and nostalgia that we reflect on the remarkable journey that began in 1990. It was in 2000 that I took over as the advisor, witnessing a dynamic and eager group of students who joined the society with a fervent enthusiasm to organize impactful programs.

The Electrical Chapter has been a beacon of innovation and enthusiasm, exemplified by the diverse range of programs organized. These included the prestigious "National Conference Electrozyne 2K1", where budding engineers showcased their research and insights. Alongside, the chapter organized engaging events such as debates, quizzes, extemporaneous speeches, and mock interviews, nurturing the students' skills in communication and critical thinking.Recognizing the importance of practical knowledge, the society organized workshops and seminars, providing a platform for students to learn from industry experts and academic stalwarts. These sessions not only broadened their horizons but also equipped them with the latest trends and technologies in engineering.The Electrical Chapter of NSS College of Engineering has always stood firm in its commitment to social causes. Activities such as collectorate cleaning, spending time at old age centres, and organizing a free eye camp in association with Aravind Eye Hospital showcased the society's dedication to giving back to the community.At its core, the Electrical Chapter has always aimed to prepare students for the challenges beyond academia. Learning, sharing, and disseminating knowledge have been the guiding principles, ensuring that every member leaves with not just technical expertise but also a sense of responsibility and empathy.

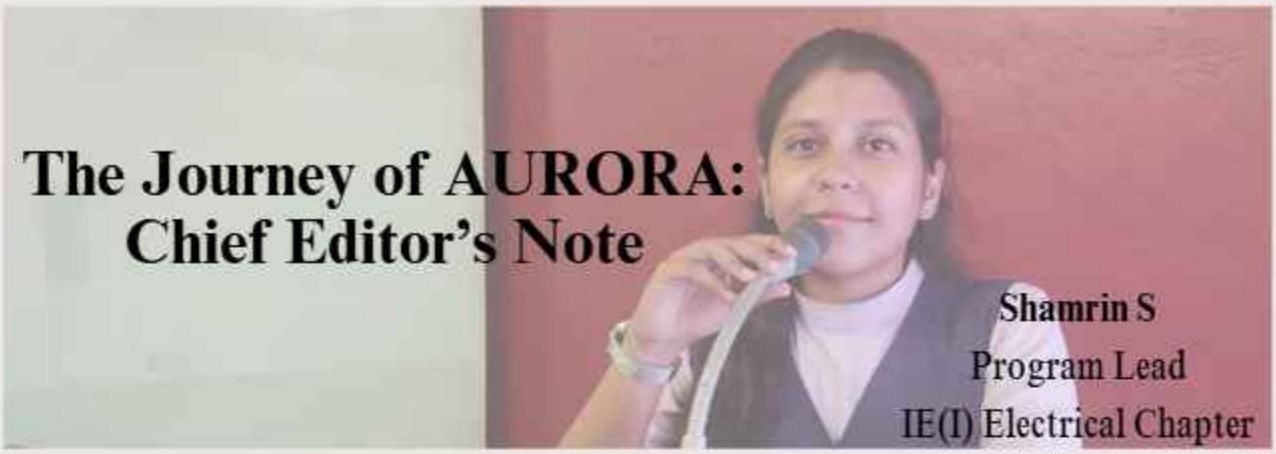
As time progressed, I passed on the baton to capable successors who continued the legacy of excellence. Presently under the able leadership of Dr. Leena as its advisor and Mr. Sajesh and his vibrant team as dedicated office bearers, the society continues to shine brightly. Today, the Electrical Chapter of NSS College of Engineering stands as a glittering example of cooperation, coordination, and organizational skills.As we turn the pages of this magazine
I wholeheartedly wish the Electrical Chapter continued success and growth. In conclusion, let us celebrate the journey of the Electrical Chapter, a journey marked by dedication, passion, and a relentless pursuit of excellence. Here's to many more years of success, innovation, and impactful initiatives.

I have a great pleasure and pride in expressing my thoughts as the Staff Advisor of this vibrant community of students who have continually showcased their passion and commitment by organising a myriad of activities. From engaging webinars to enlightening industrial visits and immersive workshops, your active participation has been instrumental in fostering a culture of learning and growth.

Many of you might have initially joined the chapter with the hope of enhancing your career prospects and expanding your professional network. However, I am confident that it is the transformative experiences and meaningful engagements that have truly captured your hearts and kept you invested as valued members. The impact of your contributions goes far beyond mere career goals; it resonates deeply within each individual, catalyzing personal growth and development.

In this edition of the magazine, we reflect on the remarkable growth and pivotal changes witnessed in the chapter throughout the year 2023-24. As we embark on another academic year filled with promise and opportunities, let us continue to uphold the spirit of collaboration, innovation, and camaraderie that defines our professional society. Together, we have the power to inspire, to empower, and to shape the future.

Once again, congratulations to each one of you, and I look forward to witnessing our continued success in the days ahead.



The Journey of AURORA: Chief Editor's Note

Shamrin S
Program Lead
IE(I) Electrical Chapter

It is with great pleasure that we present, the inaugural edition of our magazine, 'AURORA 2024'.Within these pages lies a mosaic of exhilarating events that have filled our calendars, along with insightful write-ups and captivating artworks that adorn our pages and depict the true essence of our vibrant community.

Embarking the journey as the Chief Magazine Editor, I'm deeply grateful for the entire team for their tireless efforts in creating this extravaganza. The year 2023–24 is one of the landmark years of IE(I) Electrical Chapter NSSCE, which has created exceptional growth and participation from all over the campus. Glancing around the pages of AURORA, where every event finds its own glow, clearly reflects the widespread enthusiasm and unwavering dedication to both its academic and compassionate pursuits. On this dawn of an academic year, there is no perfect moment than this, to reveal the magazine, which is the fruit of unwavering support, hard work, and unity among the team. Although it's challenging to capture the excitement of every event and fully depict the effort behind each program on a single page, this magazine endeavors to showcase the heart of our society's activities.

I invite you to embark on this voyage with us, to relive the moments, and to immerse yourself in the stories, and marvel at the creativity that flourishes within our midst.

Thank you everyone for being a part of our journey and letting the glow of AURORA reach miles...

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ASTHRA'23

WHAT'S INSIDE

EVENTS

2023-24

Unveiling the Future of Transportation: A Glimpse into Autonomous Driving

Curious about self-driving cars which offer a glimpse into the future of safer and more efficient transportation? In the recent webinar hosted by IE(I) Electrical Chapter NSSCE, students were treated to an insightful session by the esteemed alumnus, Mr.Sreekuttan, a senior engineer from the Research and Development department of Mercedes-Benz India. His remarkable journey from securing a National Rank of 91 to serving as an officer cadet in the Indian Air Force showcased the caliber of individuals emerging from our college.

The event delved into the realm of Advanced Driver Assistance Systems (ADAS), shedding light on their pivotal role in enhancing road safety. Attendees gained valuable insights into cutting-edge technologies such as automatic emergency braking and the evolution from traditional car architectures to innovative zonal architectures.One of the key takeaways revolved around the concept of "multi-sensor fusion," a crucial aspect of autonomous driving.Mr.Sreekuttan expertly guided students through the integration of information from cameras, radars, and LiDAR to create a comprehensive understanding of the environment—a fundamental element in the development of autonomous vehicles.

As the webinar concluded, students left with a profound understanding of autonomous driving technology and the potential it holds for the future of transportation.

Mr. Sreekuttan's story left an indelible mark, motivating attendees to pursue their dreams in the ever-evolving landscape of autonomous technology. For those eager to delve deeper into the world of innovation, the chapter promises more enlightening webinars and events in the future. Who knows? The next visionary in autonomous driving technology might just be among us.

Patriotic particles: Atoms illuminating the service spectrum

The experience of discovering the marvels hidden within atoms took center stage at the two-day extravaganza, "ATOMS IN THE SERVICE OF THE NATION (ANU Awareness Programme), held on August 9 th and 10th , 2023. Hosted by the Indira Gandhi Centre for Atomic Research (IGCAR) in collaboration with the IE(I) Students Chapter, NSSCE, the event was a captivating blend of education and entertainment.

The event kicked off with an enlightening introductory session by Shri K. R. Sethuraman, Chief Administrative Officer of IGCAR. His presentation, "Atoms in the Service of Nation", delved into how atomic science impacts various facets of our lives. Shri R. Nandakumar, Assistant Administrative Officer, followed suit, shedding light on the "Career Prospects in the Department of Atomic Energy & quot; outlining diverse job opportunities stemming from the study of atoms.

They also learned about IGCAR's noteworthy contributions to space - related endeavors, from satellite communication to smart city planning.The event was a resounding success, igniting a passion for science among the attendees. By showcasing the incredible potential of atoms across various career paths, the ANU Awareness Programme not only unveiled exciting opportunities but also underscored the cool and powerful nature of science.

The ANU Awareness Programme wasn't just about passive learning, it encouraged active participation, through activities like drawing, quizzes, speeches, and slogan writing. The interactive approach not only reinforced understanding but also fostered creativity, making the exploration of atoms a fun experience.

Bright Ideas Sparks at NSSCE
Sustantia - Idea Pitching Contest

Imagine a world where clean air fills your lungs, where oceans teem with life, and where future generations inherit a thriving planet. This is the future we can create together. Putting this idea forward, IE(I) Electrical Chapter NSSCE conducted the event 'Sustantia' on 22nd September 2023. This event saw 21 teams brimming with innovative ideas vying for the top spot.

After a rigorous selection process, four teams emerged as finalists: "Eco Warriors," "Cypher," "Eco Innovators," and "Spark Wit." Each team presented their sustainable solutions to a panel of esteemed judges, including Dr. Pradip C., the Honourable Secretary of IE(I) Palghat Local Centre, and Dr. Leena N,Staff advisor, IE(I) Electrical Chapter NSSCE.

The judges meticulously evaluated each presentation based on factors like practicality, impact, creativity, and clarity. The competition was fierce, but ultimately, "Eco Warriors" emerged victorious, followed closely by "Eco Innovators" in second place.The event provided a platform for budding engineers to showcase their creativity and problem-solving skills, leaving them empowered and equipped to make a positive impact on the world. Beyond the competition, the day offered valuable insights. Dr. Pradip and Dr. Leena shared their expertise on sustainable living, inspiring the students and encouraging them to continue developing innovative solutions for a greener future. They emphasized the importance of student engagement and expressed their hope for even more brilliant ideas in future contests.

“From bridges to bytes”, standards build a better world

The IE(I) Electrical Chapter, NSSCE, took a unique approach to celebrate World Standards Day this year, by hosting a digital poster-making competition titled “Standardize the Future”. Held over a span of 10 days , the competition attracted several talented minds who showcased their creativity and design skills.

“Standardize the Future”; challenged participants to envision a world where everything, from products to education, adheres to a set of rules for consistency and quality. Students were invited to capture this concept through their posters, thus exploring all possible aspects of such a standardized future.

The competition saw a diverse range of submissions, each brimming with originality and artisti expression. Amruthavarshan P. H., a student from third year Electrical Department, emerged victorious, taking home the top prize with his exceptional work, which exhibited his creativity, originality, visual impact, and ability to stay true to the competition theme.

The standout achievement of the event was that it was more than just a competition; it provided a platform for students to explore a complex topic, share their perspectives, and engage in creative expression.The success of the competition leaves us wondering: What other themes and challenges can we explore through art and design? Perhaps future events will inspire even more students to unleash their creativity and spark meaningful conversations about the future they want to build.

Placement Canvas: Painting the pathways for juniors

In a dazzling showcase of placement prowess, NSSCE Palakkad witnessed an electrifying event, "Talk to Triumph," orchestrated by students of IE(I) Electrical Chapter NSSCE.

Under the spotlight, the respected Head of the EEE Department, Dr. Saju, inaugurated the event with a powerful speech, setting the tone for a whole event full of insights and empowerment. The chief guest, Dr. Pradip C, Secretary of IE(I) Palghat Local Centre, left an indelible mark with his wisdom, highlighting the enduring impact of our actions. Dr. Leena N, the placement coordinator of NSSCE Palakkad, graced the event, adding a touch of professionalism and expertise.

Guiding the informative session, were Sajesh J, Shamrin S, and Praful S. Nath, the shining stars who are placed at Alstom and Schneider Electric. Their interactive session covered the gamut of pre-placement essentials for pre-final year students, shedding light on experiences, insights, and the art of self-training for success.

The event delved into the intricacies of aptitude cracking, mastering group discussions, crafting standout CVs, and acing interviews. From self-presentation skills to tackling general interview questions, the speakers unraveled the secrets to triumph in the competitive professional area.As the curtains fell on this event in the Electrical Department, "Talk to Triumph" witnessed an overwhelming response. Students flocked, eager to glean valuable skills and insights, turning the event into a resounding success.

EKATVA: The Induction Odyssey

On the vibrant evening of October 13, 2023, the EKATVA orientation program unfolded, welcoming the newest members of the IE(I) family at NSSCE. The prestigious gathering featured distinguished guests, including Dr. Pradip C, Hon. Secretary of IE(I), Palakkad Local Chapter, and Dr. Leena N, alongside the insightful presence of ex-student convenor Gayathre Vijayaraghavan.

This captivating event delved into the rich tapestry of the IE(I) Electrical Chapter's history, its current endeavors, and the exciting roadmap ahead. A significant emphasis was placed on the transformative power of dynamic presentations, underscoring the importance of conveying ideas through engaging powerpoints.

The speakers passionately advocated for active participation in extracurricular activities throughout the four-year journey, fostering a proactive and vigilant mindset among the students.Adding a touch of uniqueness to the event, the introduction of the IE(I) T-shirt for all members became a highlight, with the design unveiled by Dr. Leena N. Nair The momentum persisted with an interactive LinkedIn workshop, adeptly led by SHAMRIN S, Program Lead of the IE(I) Electrical Chapter at NSSCE. Participants were guided through the process of crafting their own profiles on the platform, discovering innovative techniques to enhance their professional presence. Undoubtedly, the event achieved its goal of creating a profound sense of belonging among the new members, setting the stage for an exciting and collaborative journey within the IE(I) community at NSSCE.

ASTHRA

ENRICH YOUR ARMOURY

ASTHRA - The biggest technical event hosted by IE(I) ELECTRICAL CHAPTER , NSSCE

ASTHRA, the array of workshops, conducted for both technical growth and potential building of students, with primary focus on quality learning and gaining resourceful experiences. The series of technical workshops conducted every weekend for two months, enabled students to elevate their technical skills to the next level. Apart from getting hands-on experience, participants were able to secure exciting awards and prizes.

"SKILL UP
STAND OUT
SUCCEED"

PCB DESIGN WORKSHOP

Do you know what sets engineers apart from normal people? It is the technical skills that they possess that help them solve problems on a minor to a larger scale. And one of the basic technical skills that any electrical or electronics engineer needs to possess is PCB design and building. From a simple remote circuit to a complex mobile phone circuit, every single electronic gadget that we use today is based on PCBs.

The PCB designing workshop was the first installment conducted by the chapter as a part of ASTHRA. The primary aim of the workshop was to give the students an idea of how printed circuit boards function and how to design and build a working PCB.

The enlightening workshop, handled by Renjith and Viswajith M of the third-year Electrical and Electronics Department and supported by volunteers from the chapter, was a resounding success. At the end of the workshop, a project was provided on which the participants could work and improve their knowledge. Overall, the workshop was a huge success, with the organizers receiving positive feedback from the attendees. The workshop was held in two sessions, with the first part focusing on a software called Proteus that is used to design the PCB. The attendees were made into pairs, and each team was assigned a system and given instructions on how to utilize the software to design a PCB.

The second session focused on giving the attendees hands-on experience on how to print and generate the PCB on a copper plate so as to make it functional. The students were made into a team of four and provided with the necessary equipment to print their own boards,in which they were guided at each step by the coordinators and volunteers.

ARDUINO WORKSHOP

In the second installment of the Asthra series, the IE(I) Electrical Chapter NSSCE hosted a dynamic two-day workshop dedicated to Arduino and its versatile applications. Taking place on October 14 and 15, 2023, under the expert guidance of Suresh.P, an esteemed member of the IETE Palakkad Center and associate professor at Al-Ameen Engineering College, the event proved to be a resounding success.

With over seventy enthusiastic participants from various departments, the workshop immersed attendees in the world of Arduino and the transformative potential of Node-MCU, an open-source development board boasting an extensive library of supporting modules. Suresh.P mentored the diverse group, fostering a collaborative and engaging environment throughout the sessions.

Breaking into smaller groups of four, each equipped with a specially curated kit featuring a temperature and humidity sensor, LED strip, and Node MCU development board along with necessary cables, the participants embarked on a journey of exploration. The inaugural day, starting at 9 a.m. on October 14th, delved into hands-on projects and introduced the Tinker Cad emulation of an Arduino board for basic LED control. The subsequent day shifted the focus towards the realm of the Internet of Things and its myriad applications. Participants gained valuable insights into sensor utilization and data extraction, culminating in the ability to integrate IoT through a smartphone app to manage LEDs connected to the Node MCU board.

Receiving glowing feedback from the students, the workshop the attendees mastered the basics of Arduino, left inspired to explore the myriad possibilities this platform offers for future innovations

ASTHRA - III

AUTOCAD WORKSHOP

With the advent of the AUTOCAD workshop, the participants were able to unlock the gateway to creativity and design. It was the third installment conducted as a part of ASTHRA, hosted by IE(I) Electrical Chapter, NSSCE.

This event provided participants with an introduction to AutoCAD software with a focus on enhancing participants's understanding of graphical tools, 2D design creation, and accurate modeling techniques, along with fundamental skills for effective software utilization.It was conducted in a hands-on format, with each participant being provided with an individual workstation equipped with AutoCAD software.

This setup ensured practical learning experiences as participants were actively engaged with the software. The workshop covered a range of topics, including Basic Yup Commands, Working with Dimensions, and Text. Facilitated by instructors, the workshop received positive feedback for the structured approach.

One ground-breaking highlight of the workshop was the integration of virtual reality (VR) technology with specialized AutoCAD software, which allowed participants to interact with 3D models in a virtual environment, providing a unique and immersive learning experience. In addition to theoretical concepts, participants were assigned a project to apply their skills to. This hands-on approach enabled them to gain expertise in AutoCAD and practical experience.

In a nutshell, The Basics of AutoCAD Workshop proved to be a valuable foundation for participants, equipping them with essential skills and knowledge to effectively utilize AutoCAD software in their future endeavours.

LTSPICE WORKSHOP

Ever wondered how circuits are designed and simulated? Well, IE(I) Electrical Chapter, NSSCE, held the LT Spice workshop to help students explore the marvelous world of LT Spice, a powerful software tool used for circuit designing and simulating!

The enthusiastic participants gathered for the workshop, which was led by P.V. Aryangana, a bright student from the 3rd year ECE department.The workshop was a great blend of theory and practice.

It started by introducing the basics of LTspice, making sure everyone was comfortable with the software. Then, things got interesting as she delved into various circuit concepts like clipping and clamping circuits, operational amplifier circuits, integrators and differentiators, RC-coupled amplifiers, and even oscillators!
But the learning didn't stop there.

To truly solidify their understanding, the participants were encouraged to put their newfound knowledge to the test by working on a mini-project at the end of the workshop.Not only did the participants gain valuable knowledge about LTspice, but they also had the opportunity to interact with each other and ask questions.

By the end of the day, everyone walked away with a better understanding of this essential circuit simulation tool.So, if you're ever curious about how circuits come to life, remember, there's always a workshop waiting to spark your curiosity and ignite your passion for learning!

EMBEDDED SYSTEM WORKSHOP

Imagine a tiny computer embedded within everyday objects, controlling their functions with invisible intelligence. That was the magic of embedded systems revealed to students of NSSCE as a part of ASTHRA'23.

The two-day workshop, held in November, served as an immersive journey into the PIC microcontroller, a popular choice for embedded system design. The expert instructors not only had technical lectures in store for the participants but also practical ones where they started off with the basics, providing a clear understanding of the microcontroller's components, control signals, and functionalities.

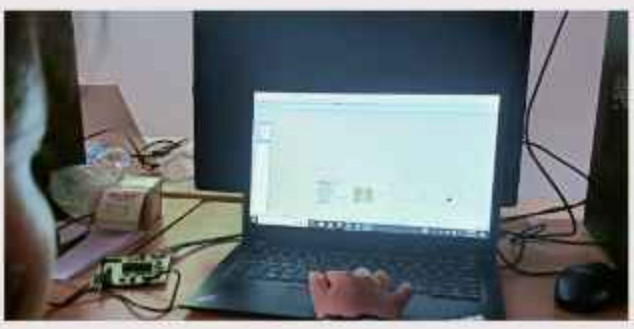
Day 1: Demystifying the Microcontroller

The microcontroller bootcamp: Participants were introduced to the PIC's architecture, getting a grip on TRIACs, SET & RESET controls, and the magic behind control signals. Using the MPLAB IDE and Proteus software, they explored the inner workings of this tiny computer

Day 2: Putting Knowledge into Practice

The hands-on experience: The instructors guided participants through building their own circuits using the PIC microcontroller, simulated the circuits using Proteus software, ensuring a smooth transition from theory to practice.

Finally, using MPLAB software, the participants programmed the microcontrollers, bringing their circuits to life and witnessing the power of embedded systems firsthand.So, if you're curious about the technology behind everyday devices or dream of building your own intelligent systems, remember the lessons learned. The world of embedded systems is waiting to be explored, and who knows, you might be the next big innovator in this exciting field!



BASIC WIRING WORKSHOP

"Spark up your knowledge, wire by wire, and watch your ideas light up higher."Aspiring Engineers Get Hooked at NSSCE's Electrifying workshop! IE(I) ELECTRICAL CHAPTER, NSSCE was successful in drawing students' interests with their recent "Basic Wiring workshop" held on November 25, 2023, which marked the 6th event in their popular "Asthra'23" series.

Guided by experienced lab instructor Mr. Suresh P, many first-year students eagerly delved into the fascinating world of electrical connections. For three engaging hours, they grasped the fundamental principles and then put their knowledge to the test by building two circuits from scratch.

The highlight was constructing and wiring a basic light circuit using two-way switches. Watching their creation illuminate with their own skillful hands was a true triumph, transforming the workshop space into a glowing testament to their newfound abilities.

This hands-on learning experience proved to be much more than just wires and switches. It ignited the passion for understanding the very essence of electricity, empowering these budding engineers with valuable practical skills. As they move forward in their academic journey, the spark from this workshop is sure to illuminate their path towards future successes!

A VISIT TO
BHARAT EARTH MOVERS LIMITED (BEML)

Imagine stepping into a real-life factory where giant machines hum and whirr, creating the marvels of modern engineering! That's exactly what was experienced by students from the NSS College of Engineering (NSSCE) when they embarked on an Industrial Visit to BEML Kanjikode, organized by the IE(I) Electrical Chapter.

The visit began with a presentation that opened the students' eyes to BEML's incredible contributions to the field of electrical engineering. This insightful introduction sets the stage for the exciting part—the facility tour!

As they walked through the vast complex, the students witnessed the magic of theory coming to life. They saw firsthand how the concepts they learned in textbooks were applied in real-world scenarios.

They watched electrical components being produced and tested for use in heavy machinery, gaining a whole new appreciation for the practical applications of their studies. The visit was a chance for the students to network and build connections with professionals in the field. They were able to ask questions, seek guidance, and potentially lay the groundwork for future collaborations.

The students also had the opportunity to interact with BEML's experienced engineers and experts. These interactions were invaluable, providing them with insights into the latest advancements in electrical engineering and bridging the gap between academic knowledge and industry applications.

Spreading Joy During Diwali: IE(I) ELECTRICAL CHAPTER's Visit to Kiran Jyothi School

On the sparkling eve of Diwali, the members of the IE(I) ELECTRICAL CHAPTER, NSSCE, embarked on a heartwarming mission: bringing festive cheer to the students and staffs of Kiran Jyothi School for the Mentally Challenged in Kollengode,Palakkad.

The visit began with a warm welcome brimming with enthusiasm. The members, who were greeted with open arms, knew this was the start of a special day. The members also organized an array of engaging and inclusive games, for everyone, thus fostering a sense of togetherness.

The funds raised from the various events were utilized to offer the students of Kiran Jyothi delightful sweets, gifts, and a nourishing lunch. Each student expressed their gratitude in their own distinctive manner, which genuinely warmed the heart.

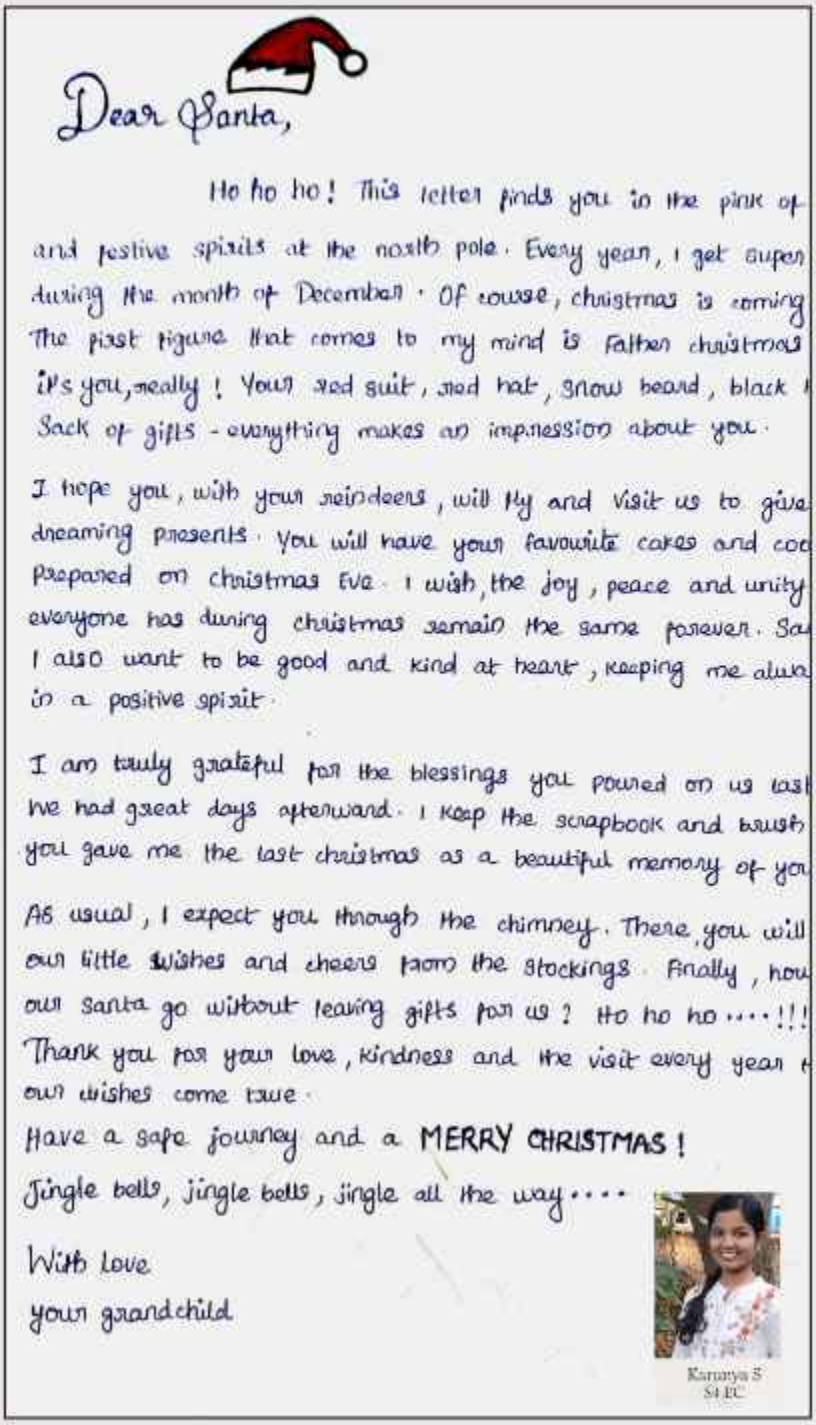
The students of the school actively showcased their own cultural talents through singing and dancing, creating an enriching and enjoyable experience for all. Spending time with the children, offered a gentle reminder of the significance of having a pure heart, devoid of hatred, and the beauty of cherishing the present moment.

Capturing the Christmas spirit: A Letter-Writing Extravaganza at NSSCE

What comes to your mind when you hear the word "Christmas"? Ofcourse, it is the festive world of twinkling lights, cozy nights by the fire, and the joy of giving. It's a sparkling season filled with love and kindness whose magic lies in the generosity of hearts and the warmth that envelops us.In the festive air of December 2023, IE(I) Electrical Chapter NSSCE hosted a unique and heartwarming event that left an indelible mark on the season.

The chapter organized a "Letter to Santa" competition, inviting participants to explore the true essence of Christmas and articulate their deepest wishes beyond material desires. Among the outstanding submissions, one letter stood out, capturing the very spirit of Christmas. Authored by Karunya S. from the Electronics and Communication Department (S3), the letter went beyond conventional wishes for material gifts. Instead, it expressed a profound longing for intangible joys and the spread of unconditional love throughout the world.

Karunya's letter not only embodied the true essence of Christmas but also resonated with the sentiments of many. It concluded with heartfelt gratitude for Santa, acknowledging the role of this mythical figure in fostering a sense of love and giving during the festive season.



Dear Santa,

Ho ho ho! This letter finds you in the pink of and festive spirits at the north pole. Every year, I get super during the month of December. Of course, christmas is coming The first figure that comes to my mind is Father christmas it's you, really! Your red suit, red hat, snow beard, black Sack of gifts - everything makes an impression about you.

I hope you, with your reindeers, will fly and visit us to give dreaming presents. You will have your favourite cakes and coo prepared on christmas Eve. I wish, the joy, peace and unity everyone has during christmas remain the same forever. So I also want to be good and kind at heart, keeping me alive in a positive spirit.

I am truly grateful for the blessings you poured on us last We had great days afterward. I keep the scrapbook and brush you gave me the last christmas as a beautiful memory of yo

As usual, I expect you through the chimney. There, you will our little wishes and cheers from the stockings. Finally, how our Santa go without leaving gifts for us? Ho ho ho....!!! Thank you for your love, kindness and the visit every year our wishes come true.

Have a safe journey and a MERRY CHRISTMAS!

Jingle bells, jingle bells, jingle all the way....

With love
your grandchild

Karunya S
S4 EC

IE(I) Electrical Chapter NSSCE goes digital with a grand 'Website Launch'!

The IE(I) Electrical Chapter NSSCE, celebrated a significant milestone on February 9, 2024, with the official launch of its website. The event was held in the EEE seminar hall, graced by the presence of esteemed dignitaries, including faculty members.

Following a warm welcome address by a core member, Dr. Saju N., Head of the Electrical Department, spoke about the chapter's purpose and contributions. Dr. Rajesh Menon, the Honourable Secretary of the IE(I) Palghat Local Chapter, commended the team's collaborative efforts and dedication in bringing the website to life. Dr. Leena N., the Staff Advisor of the IE(I) Electrical Chapter, expressed her pride and highlighted the significance of the IE(I) in fostering student growth.

The launch ceremony commenced with the Head of the Electrical Department initiating the website activation. Mr. Nidhish, the Tech and Media Lead, then provided a detailed explanation of the website's features.

The website's development is a testament to the collaborative efforts and dedication of several students: Navajyoth Satheesh C. (S4 EEE), Vishwajith K. (S2 EEE), Sajesh J. (S8 EEE), Nidhish S. P. (S8 EEE), and Praful S. Nath (S8 EEE). The platform offers a whole lot of information about the chapter, including details about events, publications, and resources for its members.

The launch event was a resounding success, with the chapter receiving widespread appreciation and compliments from the attendees.

For more details:
https://www.ieielectricalnssce.org/

Inspire, Empower, Lead: A Women's Day Trilogy

A Gallery of Inspiration: Online Photography Contest

The program commenced with an online photography contest, inviting participants to submit their interpretations of the theme "Women Around You" through the lens of their cameras. The response was overwhelming, with a diverse collection of entries showcasing creativity, powerful messages, and unique perspectives. The winning photograph, captured by Pranith R, IC Department,NSSCE embodied the spirit of the theme.

Testing Knowledge and Sparking Curiosity Quiz Competition

Following the artistic exploration, an engaging quiz competition challenged participants to demonstrate their knowledge of prominent women throughout history, their groundbreaking achievements, and ongoing struggles for equality. The competition fostered a spirit of teamwork and intellectual curiosity, with each team demonstrating impressive knowledge and collaborative spirit. Congratulations to the winning team - SPARKLE, for their outstanding performance!

A Token of Appreciation: Distributing Women's Day Cards to Educators

To acknowledge the invaluable contributions of our esteemed female educators, the program culminated in the distribution of specially designed Women's Day cards. These cards served as a token of our deepest gratitude for their unwavering dedication, fostering a nurturing learning environment, and shaping the minds of future generations.

A Successful Collaboration Boosts Technical Education and Innovation

The IE(I) Electrical Chapter NSSCE and the Innovation and Entrepreneurship Development Cell (EDC) NSSCE recently joined their forces to host a highly successful MATLAB workshop on February 28th, 2024. The event, held during Skill Development Week, aimed to advance technical education and foster innovation within the engineering community.

MATLAB is a powerful programming language specifically designed for technical computing. It empowers engineers and scientists to compute and analyze data, design and simulate systems and visualize complex concepts. Beyond its core functionality, it seamlessly integrates with various applications and languages like C, Java, and Microsoft Excel, providing flexibility and efficiency for developers.

The workshop was led by Mr. Abhijith S of the S8 Electrical and Electronics Department. The workshop offered fundamentals of MATLAB programming, introduction to Simulink, a visual programming environment.

Participants gained valuable knowledge of MATLAB's capabilities and applications. The interactive nature of the workshop fostered a dynamic learning environment, allowing participants to actively engage with experts and collaborate with peers. This successful workshop highlights the importance of continuous learning and skill development for engineers.

By embracing innovative tools like MATLAB, engineers can enhance their skill set, unlock new possibilities, and contribute significantly to the field of engineering and innovation.


N.S.S COLLEGE OF ENGINEERING

GALLERY


ASTHRA'23
PCB DESIGNING WORKSHOP


NSS COLLEGE OF ENGINEERING


ASTHRA'23


PEN &
PALETTE

Rays of Change: India's Solar revolution towards economic growth

Shamrin S
S8EEEB

As India is on its mission to reach the 3rd largest economy, the power sector is of high importance for the economy to grow. India's power sector has indeed been undergoing a significant transition from coal-based power generation to renewable energy sources, particularly solar power. With the addition of over 175 GW of generation capacity in the past nine years, India has transitioned from a power deficit to a 'power surplus' nation. The availability of power in both rural and urban areas has significantly increased, with rural areas experiencing a rise from about 12 hours per day in 2014 to 22.5 hours per day currently, and urban areas enjoying nearly 24 hours of power availability.

India's announcement that it aims to reach net zero emissions by 2070 and to meet fifty percent of its electricity requirements from renewable energy sources by 2030 is a hugely significant moment for the global fight against climate change. It is noteworthy that India is the only G20 country that is on pace to meet the Paris Agreement's goals and the third-largest producer and consumer of electricity worldwide.

While India's electricity needs, according to the Central Electricity Authority (CEA), are expected to increase and reach 817 GW by 2030, the Ministry of Power is actively working towards replacing coal-based energy generation with renewable sources.

Just a few years ago, someone who wanted to install a rooftop solar connection in India faced getting multiple approvals, have to find a reliable company to install the panels, and spend heavily before seeing the first surge of clean energy. But that's changing. In the recent Sunshine initiative, where 1 crore households obtain 300 units of free electricity every month through rooftop solarization, each household is expected to save Rs. 15000 to Rs. 18000 annually. While only 12 gigawatts (GW) out of an intended 40 GW of rooftop solar panels have been installed so far, the government is set to provide a substantial subsidy, increasing from the current 40% to 60% of the system's cost. Thus, the time has come for us to contribute to the renewable energy sector and help India reach its milestone mission!

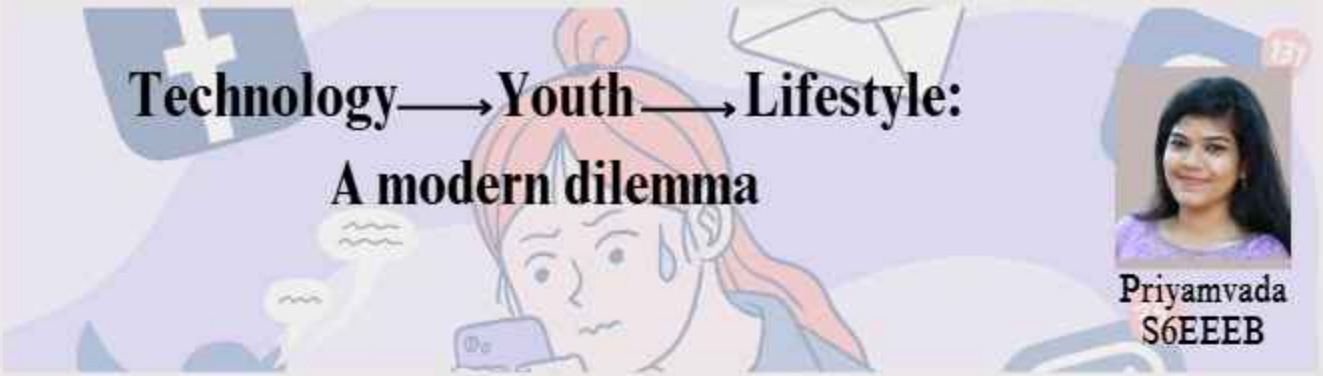
Dollars and Sense:
Unleashing the Financial Wizardry

Nidhish S P
S8EEEB

In the whirlwind of adolescence and early adulthood, financial independence is a crucial skill that often takes a back seat amongst our academic pursuits and social engagements. However, mastering the art of self-financing is essential for teenagers and college students alike, setting the stage for a secure and empowered future.

Firstly, cultivating a sense of financial awareness is paramount. Creating a budget and tracking expenses can help individuals understand where their money is going and identify areas for potential savings. Many apps are available to simplify this process, making it accessible even to those new to financial management. The gig economy offers a plethora of opportunities for teenagers and college students to leverage their skills and time for financial gain. Freelancing in areas such as writing, graphic design, or programming provides a flexible means of income. Platforms like Upwork, Fiverr, and TaskRabbit connect freelancers with potential clients, enabling students to explore their passions while earning extra cash. Additionally, entrepreneurship is a viable avenue for self-financing. Students can channel their creativity and innovation to develop small businesses, whether it be selling handmade crafts, providing tutoring services, or launching an online store. While the concept may seem daunting, even small amounts can make a significant impact over time. Exploring low-risk investment options, such as index funds or robo-advisors, allows students to dip their toes into the world of investing without the stress of navigating complex markets. Lastly, seeking financial guidance from mentors or utilizing online resources can provide valuable insights. Learning from the experiences of others and staying informed about personal finance strategies can empower teenagers and college students to make informed decisions about their money.

In conclusion, the art of self-financing is a skill that, when honed early on, lays the groundwork for a financially stable future. By embracing budgeting, adopting a frugal mindset, exploring gig opportunities, venturing into entrepreneurship, making informed investments, and seeking guidance, teenagers and college students can navigate the complex world of finances with confidence.



Priyamvada
S6EEEB

In recent years, the lifestyle of youth has undergone a rapid transformation, primarily due to the influence of modern technology. This has messed up their daily routines, leading to unconventional sleeping patterns, irregular meal times, and a host of associated health problems. These drastic changes in the lifestyle of youth concern people about the well-being and future of young people. The change in lifestyle among youth can be attributed to several factors, technology playing a significant role. The influence of social media prompts youth to prioritize online interaction over real-world connections, FOMO (Fear Of Missing Out) on the latest trends and events, changing social norms as traditional notions of work, leisure, and socialization. It has evolved in response of technology advancements, which contributes to irregular sleeping patterns and meal times. Cultural and generational shifts also plays a important role as each generation is shaped by its own cultural value and technological advancements. With today's digital-native youth, who are born and raised in the age of technology, approaches life with a different mindset than previous generations. It is essential to comprehend the underlying causes to address the challenges and support the overall well-being of the younger generation.

According to a study by the National Sleep Foundation, over 70% of adolescents report insufficient sleep, with technology being the primary contributing factor. Nowadays, it's common for young people to stay up late using their phones, skipping up their normal sleep times, making their daily schedules even more messed up. Lack of proper sleep and irregular eating patterns can lead to severe health problems that last for a long time, including heart disease. The World Health Organization (WHO) says that the number of overweight or obese teenagers has grown three times since 1975, with more than 340 million people between the ages of 5 and 19 in this category.Despite the connectivity and information access provided by technology, its rapid growth has led to a crisis in youth lifestyles.

In a nutshell, today's youth face major changes brought on by technology, which offers both chances for growth and risks to their well-being. Fostering balanced tech use and prioritizing wellness empowers them to thrive in an interconnected society.

Equipping engineering aspirants to meet present-day recruiters requirement

Dr. Pradip C

In the rapidly evolving landscape of engineering, the demands placed on engineering aspirants to meet the requirements of modern-day recruiters are continually changing. To navigate this dynamic terrain successfully, aspirants must cultivate a diverse skill set, imbibe essential qualities, and adapt to the evolving needs of the industry. From desire to soft skills, from knowledge to time management, the journey of an engineering aspirant is multifaceted and demanding. This comprehensive guide, explores the essential elements that engineering aspirants need to equip themselves with to thrive in today's competitive job market.

Desire:

The journey of becoming an engineer begins with a burning desire to innovate, create, and solve complex problems. This desire serves as the foundation upon which the entire educational and professional journey rests. Aspirants must cultivate and nurture this desire, allowing it to fuel their pursuit of excellence and drive them towards their goals.

Dedication and Devotion:

Engineering is not merely a profession; it is a calling that demands unwavering dedication and devotion. Aspirants must be willing to put in the hard work, sacrifice, and effort required to excel in their chosen field. This dedication entails a commitment to continuous learning, improvement, and growth, even in the face of challenges and setbacks.

Discipline:

Discipline forms the bedrock of success for engineering aspirants. It encompasses the ability to adhere to deadlines, follow schedules, and maintain focus amidst distractions. Discipline extends beyond academic pursuits to encompass all aspects of life, including health, relationships, and personal development.

Character:

Integrity, honesty, and ethical conduct are non-negotiable traits for aspiring engineers. Recruiters value individuals with strong moral character and integrity, as they are seen as trustworthy and reliable team members. Building a reputation for ethical conduct and upholding principles of honesty and integrity is essential for long-term success in the engineering profession.

Confidence:

Confidence is the cornerstone of effective communication, problem-solving, and leadership. Confidence empowers individuals to take risks, and overcome obstacles with resilience and determination.

Caliber:

Excellence is the hallmark of engineering aspirants who possess exceptional calibre. Caliber encompasses a combination of technical proficiency, critical thinking skills, and creative problem-solving abilities.

Courage:

Courage is the willingness to step outside one's comfort zone, embrace challenges, and confront adversity head-on. Engineering aspirants must cultivate courage to pursue ambitious goals, explore new frontiers, and embrace failure as a learning opportunity.

In essence, the alignment of the 4D's and 4C's serves as a blueprint for individuals to cultivate the essential attributes and capabilities needed to thrive in today's dynamic and competitive world. By harnessing the power of desire, dedication, devotion, discipline, character, confidence, courage, and calibre, individuals can unlock their full potential and embark on a journey of continuous learning, growth, and self-discovery.

Through the cultivation of the 4D's - Desire, Dedication, Devotion, Discipline - individuals lay the groundwork for acquiring the essential components of KASH:

Knowledge:

Knowledge forms the foundation of engineering education and professional practice. Aspirants must acquire a strong theoretical understanding of core engineering principles, coupled with practical hands-on experience.

Attitude:

A positive attitude is a powerful asset that engineering aspirants must cultivate to succeed in their careers. A can-do attitude, resilience, and adaptability are invaluable qualities that enable individuals to thrive in dynamic and challenging environments. Maintaining a positive outlook fosters collaboration, innovation, and continuous improvement.

Skills:

Technical proficiency alone is no longer sufficient for engineering aspirants to meet the demands of modern-day recruiters. Employers seek candidates with a diverse skill set that encompasses communication, teamwork, leadership, and problem-solving abilities.

Aspirants must develop a repertoire of skills that complement their technical expertise, enabling them to excel in multidisciplinary roles and dynamic work environments.

In conclusion, equipping engineering aspirants to meet the present-day recruiter requirements entails a holistic approach that encompasses desire, dedication, discipline, character, confidence, calibre, courage, knowledge, attitude, skills, habits, continuous learning, additional inputs, projects, soft skills, and time management. By embracing these essential elements and committing to lifelong learning and personal development, engineering aspirants can position themselves for success in the dynamic and ever-evolving field of engineering.

DARK

-Diyu Ahmmed
S6EEEA

Thrive the way you see the block
Eyes Open, brain open you look back
Above or below or up or down
Sparkle the luminous, at the dawn.

Alas! there's the roar from north Turn back, look forward there's a cloth.
You are the warrior, shouts my mind
Rolled the way with eyes blind

Over 'n' over my lips twist
Topsy turvy; I was in the mist
Beeps the alarm, the red alert Rendezvous feet with helical divert

I was a fastened bate.....
weighed less, post this fate.
Dark is the sky, the darkest ever Wanna realize to get out never.

My mind was null, the hollow wound Farther I move, deeper the bound
"come to me" roars the evil
Shan't I do, traps the devil.

Over 'n' over my lips twist
Topsy turvy; I was in the mist
This darkness is the ultimate power
Sparkle me before she cover.

THE SIGHT OF THE STARS

The sight of stars Makes me go wild
To search for dreams
Tiny peals sewed in the beauty of vastness
Stars make me wonder, about my very own existence
I wish I could just stare at them
Forever until the grave
As they are the key,

To understand the mysteries of the universe!

-Sneha RS
S2 EEEB

IT WAS A LANDSLIDE

She was having trouble keeping her roots in the soil. Half of her roots were broken.
The rocks that struck her body caused injuries to her body..
Everything around her was taken by the landslide..

The kids who came over to play with her, the moms who gave her water, the dads who pulled out any parasitic plants that were close by...

When the valley became enraged, everything was lost in the space of one minute. It was like a bolt from the blue. She was startled awake by an abrupt noise, and all she saw was mud and rocks together, coming down to destroy every living being present there.

Still something was left behind - HOPE.

-Madhumitha Haridas
S4 EEE B

PALETTE

Mufeedha S2EB

Mufeedha S2EB

Anusha V S2EA

Archana P Nair S6EA

Devika S6EA

Archana P Nair S6EA

Arya S6EA

Devika S6EA

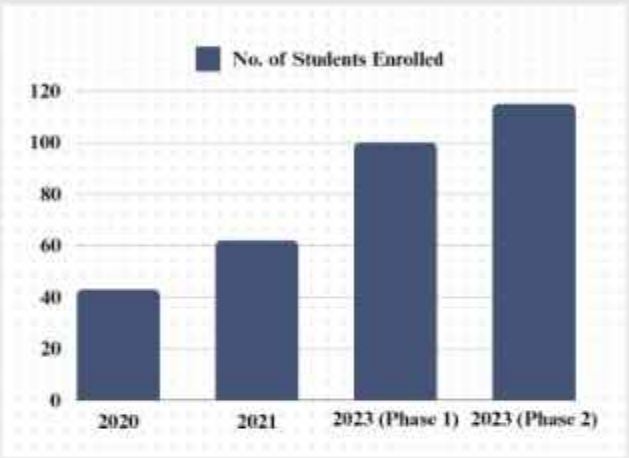
Sneha RS S2EB

CRAFTING CONNECTIONS

Nandana Sivadasan
MDC

In the past year, IE(I) ELECTRICAL CHAPTER NSSCE has experienced a truly remarkable period of growth and achievements. The remarkable growth of our society is evident in the leap from 105 members in 2023 to 320 members in 2024, serving as a clear testament to our organization's progress.

Reflecting on my year as the Membership Coordinator for the IE(I) ELECTRICAL CHAPTER NSSCE, I am filled with a profound sense of pride. Coordinating the addition of over 155 new members was no small task, presenting challenges that fueled my determination to make a lasting impact. This experience has strengthened my leadership skills and reinforced my commitment to driving positive change in the engineering community.



The organization has not only expanded its membership but also hosted a multitude of events, fostering a sense of community among its participants.It's truly inspiring to be part of a community where each member contributes significantly to our shared success.I take great pride in being a member of the IE(I) Electrical Chapter NSSCE.

Currently, the IE(I) Electrical Chapter boasts approximately 320 members. Notably, from 2023 to 2024, there has been a remarkable 200% surge in membership, underlining substantial growth within the organization over the past year.

Future Events

Workshops

1. Exploring Electronic Automotive Systems for the Future of Automobiles
2. Navigating the World of WEBPRENEURSHIP: From Idea to Launch
3. Hands-On Nanotechnology: Building the Future with Nanofabrication From Concept to Code: App Development and Website Design"
4. Mastering Electrical System Design and Circuit Designing Techniques
5. Unlocking the Potential of VLSI Design with Verilog Programming
6. Crafting User-Centric Experiences: UI/UX and Graphic Design Essentials
7. Connecting the World: Exploring the Internet of Things (IoT) Technologies

Competitions

1. Test Your Technical Acumen: Engage in a Thrilling Technical Quiz
2. Navigate the Maze: Maze Solving Challenge
3. Ideas for Tomorrow: Ideathon based on Real-World Problems

Webinar Series

1. Harnessing the Power of AI Tools for Future Innovations
2. Fast-Tracking Engineering Solutions with Prompt Engineering Strategies
3. Automation Revolution: Insights into Industrial Automation
4. Mastering Project Management: From Idea to Execution
5. Digital Marketing Strategies for Tomorrow's Businesses
6. Exploring the Future of Transportation: EV Technology and Carbon Neutral Car Solution
7. Riding the Wave: Insights into Hydrogen Trains


Adithya S - 2nd
Excellent work, guys Proud of you all!! ❤
vix_sh_nu__ 20h
This workshop was one of the best workshop I ever attended. The mentor give as lot of valuable knowledge that was so helpfull in current semester.The session was very interesting. We are so grateful to the coordinators and IE(I) Electrical Chapters NSSCE for conducting the workshop.
Reply
madhumitha__haridas 3h
I would like to thank IE(I) Electrical Chapter NSSCE for conducting this quiz.Each levels were entirely different and covered every areas of knowledge.It was a great experience!
Reply
Sneha R S
This workshop conducted by IE(I) ELECTRICAL CHAPTER NSSCE has been very useful as it helped to understand the very basic concepts of wiring
Nima R
LT spice - workshop was a good experience. The mentor was so amazing and she handled the session in a nice and smooth way. We thank our coordinators and IEI electrical chapter nssce for arranging the workshop and providing valuable knowledge
UTHARA R
It was an amazing experience participating in the quiz competition! I learned so much and had a great time. Thank you for organizing such a wonderful event.
JESHMA JAYADEVAN
It's a great honour to receive this special award as an executive member of IE(I) ELECTRICAL CHAPTER NSSCE. I would like to thank all, who believed in me and joined me on this unforgettable journey!
Rohith A
I am proud to have been a part of IE(I) ELECTRICAL CHAPTER NSSCE during the best four years of my student life. In my student life, I gained the most confidence and energy to speak in public after becoming a member of IEI. It help me to evolve into a responsible team player also.
A Malavika - 1st
GET at Alstom
It was an immense honour to be a part of the IE(I) ELECTRICAL CHAPTER NSSCE. The past four years of being in the IEI family have given me wonderful experiences. IEI has genuinely played a major role in shaping my career.
Nima K M - 2nd
Thank you IE(I) ELECTRICAL CHAPTER NSSCE for organizing such an insightful hands-on workshop on AutoCAD! It was a fantastic opportunity to enhance our skills. Looking forward to more enriching events in the future!
Anamika K - 2nd
Thank you IE(I) ELECTRICAL CHAPTER for organizing such a insightful event. It was indeed a memorable experience. We were able to gain new knowledge. The quiz was conducted in a well organized manner. So I would like to express my sincere gratitude to all the volunteers and team of IE(I).
Vishnupriya K
It's been a quite good experience after becoming an IE(I) member. The Orientation program which has been conducted by our seniors was quite good and effective. The experiences shared by the passed out member of IE(I) and the IE(I) team members was helpful and so on. I'm believed to be an IE(I) member and as well as an executive member in the team.
EH Akshay
I am thrilled to have had the opportunity to serve as the coordinator for Akshar'23 - Arduino workshop. It has been an immensely rewarding experience to work alongside our dedicated team and contribute to the success of this program.
As a coordinator, I focused on ensuring smooth communication and collaboration among team members, managing logistics, and overseeing the implementation of our program's objectives. Through effective ... see more
Meenakshma R - 2nd
I want to express my heartfelt thanks to IE(I) Electrical chapter for giving me the chance to coordinate the Queens Quotation. It was truly a pleasure to be a part of such a meaningful event. Congratulations to everyone involved in making it a success!

Follow us on

iei_electrical _chapter_nssce_

IE(I) ELECTRICAL CHAPTER NSSCE

Write to us on - nssce.iei@gmail.com

For more details, log on to www.ieielectricalnssce.org