



**NEHRU COLLEGE OF ENGINEERING AND RESEARCH
CENTRE**

(AN AUTONOMOUS INSTITUTION)

(NAAC 'A' Accredited, NBA Accredited (CSE & MTR)

(Approved by AICTE, Affiliated to KTU, Kerala)



Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities. Institution facilitates student participation in academic administration. Student representatives are identified from each class as members of course and class committee. The progress of the class, the quality of teaching learning process, evaluation of internal assessments, infrastructural improvements, addition of facilities for academic purposes are represented. Students are motivated to participate and organize co-curricular activities. They are given ample opportunity to organize department association and professional forums like IEEE. Students are assigned with the responsibility of program coordinator and faculty advisors are nominated to provide necessary support to students. This is helping students to improve their organizing capabilities, leadership qualities and communication skills. All extracurricular activities organized by the institution are coordinated by student representatives under guidance of assigned faculty. The selection of events, regulating the events and related celebrations are brought under the coordination of students with supervision from faculty. The students are encouraged to hold events as desired by student community so as to nurture and encourage the artistic talents of the students. These programs will enable students to have a holistic development enriching further career and personal growth.



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Nila Gardens, Pamunady
Thiruvilwamala, Thrissur - 680599



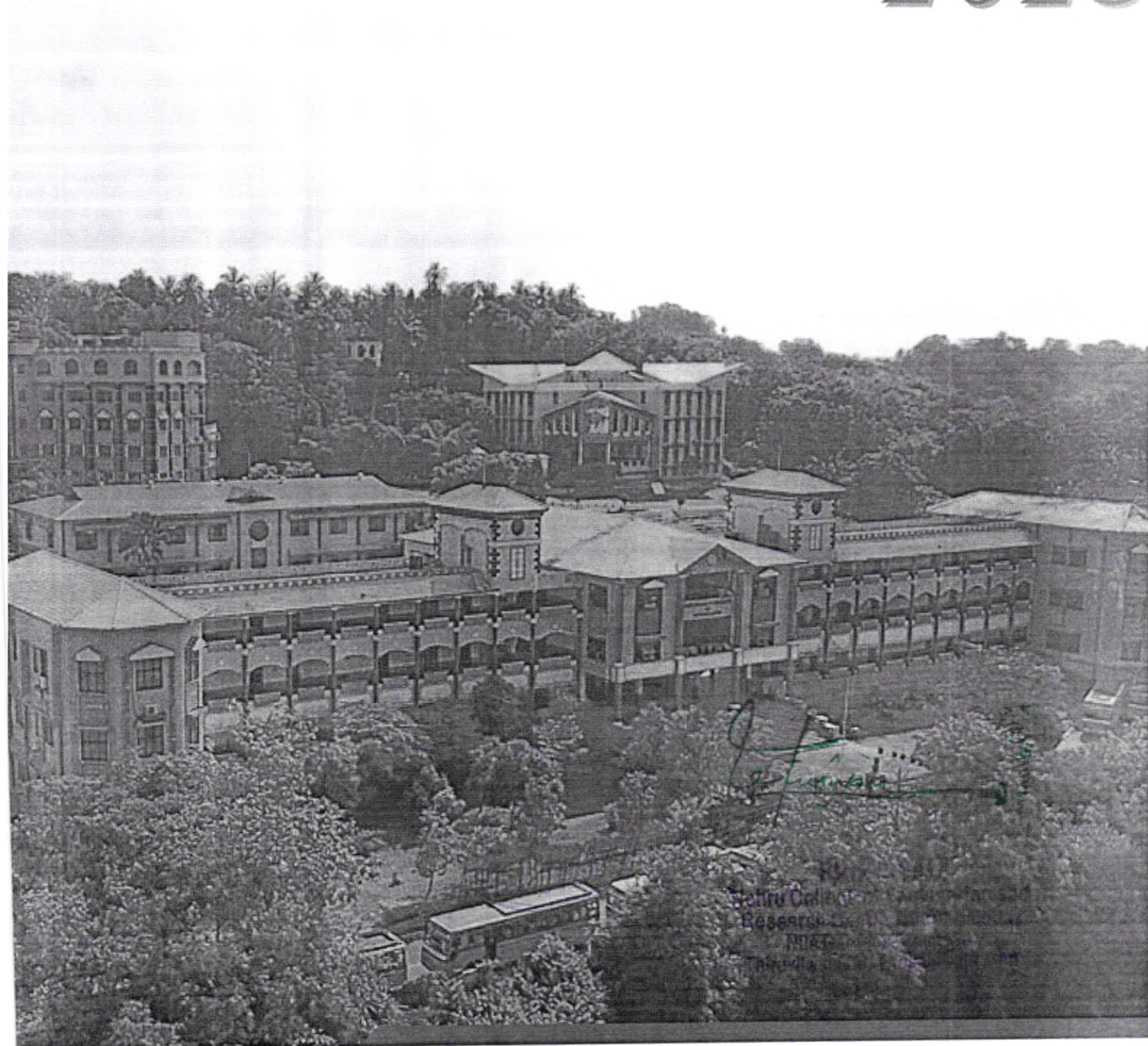
IEEE STUDENT BRANCH

Nehru College of Engineering and Research Centre



IEEE

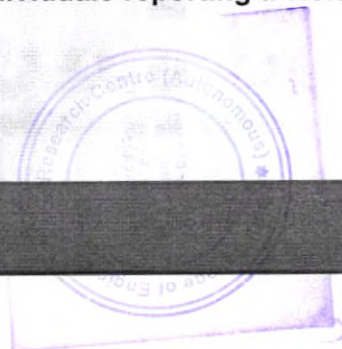
ANNUAL NEWSLETTER 2023



IEEE CODE OF ETHICS

We, the members of the IEEE, in recognition of the importance of our technologies in affecting the quality of life throughout the world, and in accepting a personal obligation to our profession, its members and the communities we serve, do hereby commit ourselves to the highest ethical and professional conduct and agree:

- I. To uphold the highest standards of integrity, responsible behavior, and ethical conduct in professional activities.
 1. to hold paramount the safety, health, and welfare of the public, to strive to comply with ethical design and sustainable development practices, to protect the privacy of others, and to disclose promptly factors that might endanger the public or the environment;
 2. to improve the understanding by individuals and society of the capabilities and societal implications of conventional and emerging technologies, including intelligent systems;
 3. to avoid real or perceived conflicts of interest whenever possible, and to disclose them to affected parties when they do exist;
 4. to avoid unlawful conduct in professional activities, and to reject bribery in all its forms;
 5. to seek, accept, and offer honest criticism of technical work, to acknowledge and correct errors, to be honest and realistic in stating claims or estimates based on available data, and to credit properly the contributions of others;
 6. to maintain and improve our technical competence and to undertake technological tasks for others only if qualified by training or experience, or after full disclosure of pertinent limitations;
- II. To treat all persons fairly and with respect, to not engage in harassment or discrimination, and to avoid injuring others.
 7. to treat all persons fairly and with respect, and to not engage in discrimination based on characteristics such as race, religion, gender, disability, age, national origin, sexual orientation, gender identity, or gender expression;
 8. to not engage in harassment of any kind, including sexual harassment or bullying behavior;
 9. to avoid injuring others, their property, reputation, or employment by false or malicious actions, rumors, or any other verbal or physical abuses;
- III. To strive to ensure this code is upheld by colleagues and co-workers.
 10. to support colleagues and co-workers in following this code of ethics, to strive to ensure the code is upheld, and to not retaliate against individuals reporting a violation.



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IEEE SB NCERC

ABOUT

IEEE SB NCERC was revamped on 7th January 2021 and was inaugurated by Susan Kathy Land, IEEE President 2023. Over these years IEEE SB NCERC could able to be a part of several events and also hosted our events. We provide members with the opportunity to meet and collaborate with other professionals in their field. Thus the members will get a chance to learn about the latest trends and developments in technology as well as to build relationships with other professionals who can offer guidance and support.

With a commitment to fostering holistic development, the IEEE SB NCERC engages its members through a variety of activities, including workshops, seminars, and technical events. These initiatives are designed to provide students with practical insights into emerging technologies, hands-on experience, and opportunities to expand their skills beyond the classroom.

Overall, the IEEE Student Branch at NCERC plays a pivotal role in shaping the educational experience of students by providing a platform for technical exploration, skill development and networking. It serves as a hub for those passionate about technology, contributing to the overall growth and success of students within the Nehru College Engineering and Research Centre community.

IEEE student branch NCERC pledged to inspire young minds through advancing technology for the benefit of humanity.



A handwritten signature in green ink, appearing to read "Lefusian".

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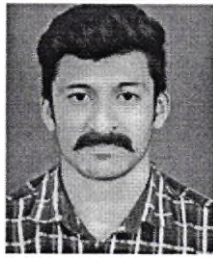
EXECOM 2023



Dr Sobha Manakkal
SB Counselor



Ms. Neethu M
PES SBC Advisor



Mr Sanoj T
Mentor



Ms Silja Varghese
Mentor



Dr Mredhula L
Mentor



Ms Anooja B
Mentor



Anand M
Chair Person



Anjali Nandana VP
Vice Chairperson



Akash V
Secretary



Anand M
Treasurer



Abhishek R
MDC



Prajith P
ECC



Swaroop Kumar
Link Representative



Anjana Chandran
Content Head



Adithya
Design Lead



Muhammad Murthaza
Design Volunteer



Sangeetha Rajeev
Design Volunteer



Sreelakshmi T
Content Writer



Mridhula M
Content Writer



Abhiram M
PES SBC Chairperson



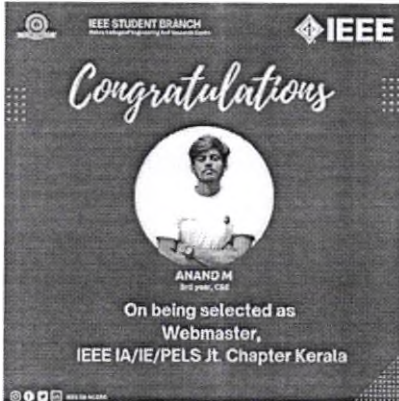
Alok C Unni
PES SBC Secretary



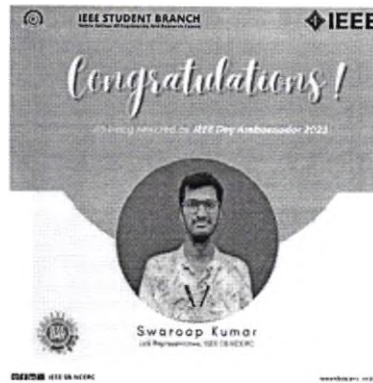
R. Anargha
WIP Representative

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Thiruvilwamala, Thrissur - 680558

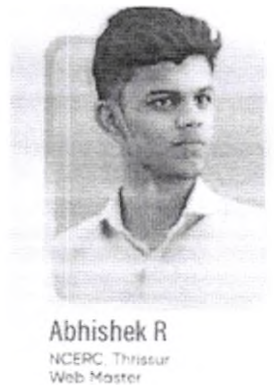
ACHIEVEMENTS-2023



Anand M proudly served as the webmaster for IEEE IA/IE/PELS Jt Chapter Kerala in the year 2023.



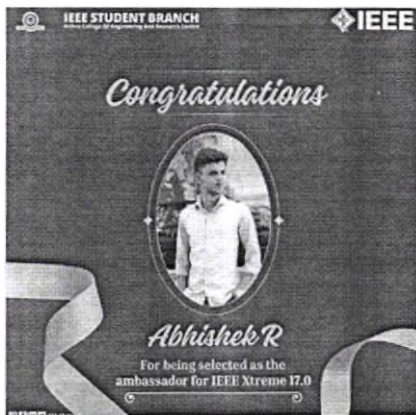
Swaroop Kumar was selected as the IEEE Day Ambassador for the year 2023



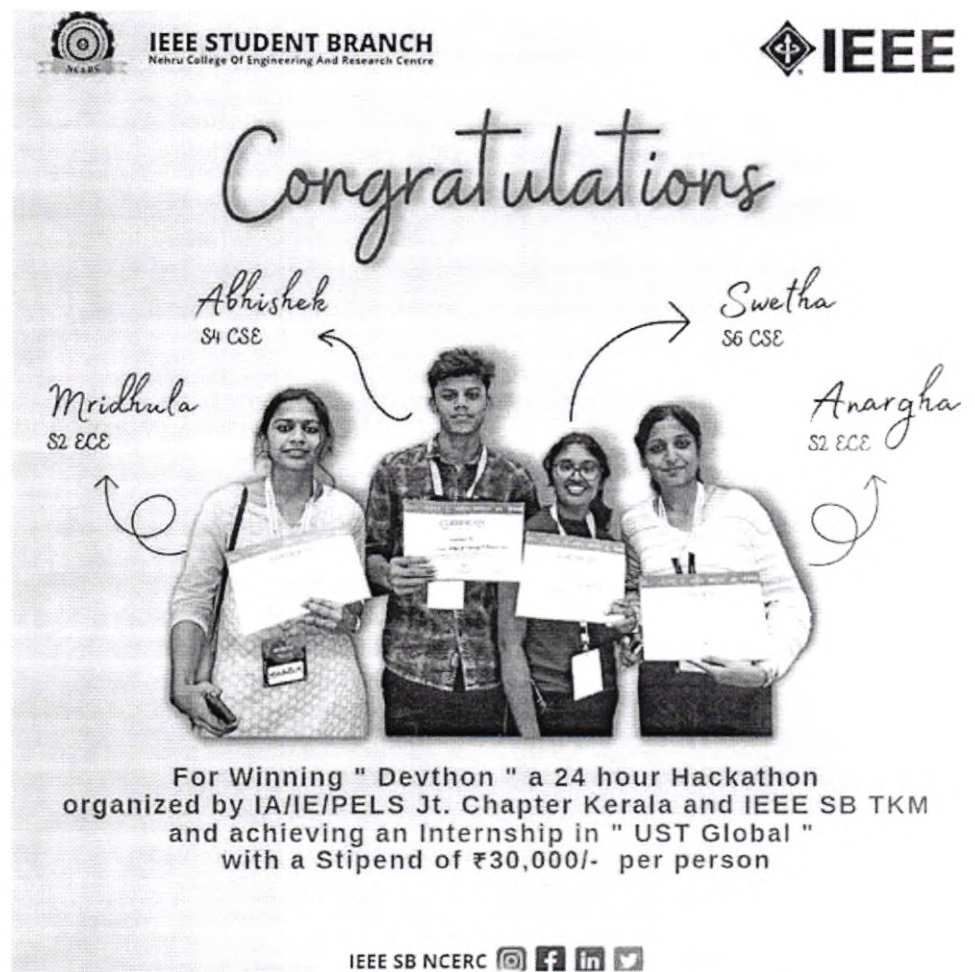
Abhishek was selected as the webmaster of IEEE PELS Kerala Chapter Student Leadership Training 2023



Muhammad Murthaza proudly served as the Newsletter Editor for IEEE SPS KERALA CHAPTER in the year 2023



Abhishek R was selected as the Ambassador of IEEE Xtreme 17.0 in 2023



Our volunteers Swetha, Abhishek, Anargha, and Mridhula emerged victorious in Devthon, a 24-hour hackathon organized by IEEE IA/IE/PELS Kerala and IEEE SB TKM, as part of AKIASSC'23."

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ACHIEVEMENTS-2023



Our Branch Counselor, Dr. Sobha Manakkal, won the IEEE PES OUTSTANDING ENGINEER AWARD (>15 YEARS) in 2019.

'ആപ്പി'ലൂടെ യാത്രചെയ്യാൻ ഹെയ് ഓട്ടോ ആപ്പ്

വിദ്യാർത്ഥികൾ

തിരുവനന്തപുരം നിവാസികളായ അനന്ദ് സ്റ്റാൻഡിംഗ് അയ്യപ്പൻ (3rd വർഷം) ആൻഡ് അഭിഷേക് രവി (3rd വർഷം) ആണ് ഈ ആപ്ലിക്കേഷൻ സൃഷ്ടിച്ചത്. ഈ ആപ്ലിക്കേഷൻ തദ്ദേശവാസികൾക്ക് സൗകര്യം സൃഷ്ടിക്കുകയും സഞ്ചരിക്കാനും കഴിയുന്ന വിധത്തിലാണ് ഇതിലെ വിവരങ്ങൾ കാണിക്കുക. സ്റ്റാൻഡിംഗ് അയ്യപ്പൻ ഓട്ടോ ഓഡിയോയിൽ ഓട്ടോറിക്ഷ വരിൽ പങ്കാളിയായ അയ്യപ്പൻ



അഭിഷേക് രവി (3rd വർഷം) ആൻഡ് അയ്യപ്പൻ (3rd വർഷം) ആണ് ഈ ആപ്ലിക്കേഷൻ സൃഷ്ടിച്ചത്.

പോലീസ് ഓഫീർ, തിരുവനന്തപുരം നഗരസഭയിൽ സെക്യൂരിറ്റി ഓഫീസറായ അയ്യപ്പൻ വിദ്യാർത്ഥികളായ അയ്യപ്പൻ (3rd വർഷം) ആൻഡ് അഭിഷേക് രവി (3rd വർഷം) ആണ് ഈ ആപ്ലിക്കേഷൻ സൃഷ്ടിച്ചത്. ഈ ആപ്ലിക്കേഷൻ തദ്ദേശവാസികൾക്ക് സൗകര്യം സൃഷ്ടിക്കുകയും സഞ്ചരിക്കാനും കഴിയുന്ന വിധത്തിലാണ് ഇതിലെ വിവരങ്ങൾ കാണിക്കുക. സ്റ്റാൻഡിംഗ് അയ്യപ്പൻ ഓട്ടോ ഓഡിയോയിൽ ഓട്ടോറിക്ഷ വരിൽ പങ്കാളിയായ അയ്യപ്പൻ

ഓട്ടോ ഓഡിയോയിൽ ഓട്ടോറിക്ഷ വരിൽ പങ്കാളിയായ അയ്യപ്പൻ ഓട്ടോ ഓഡിയോയിൽ ഓട്ടോറിക്ഷ വരിൽ പങ്കാളിയായ അയ്യപ്പൻ ഓട്ടോ ഓഡിയോയിൽ ഓട്ടോറിക്ഷ വരിൽ പങ്കാളിയായ അയ്യപ്പൻ

21 മലയാള മനോരമ

ഓൺ ലൈനിൽ ഓട്ടോ: വിദ്യാർത്ഥികളുടെ ഹെയ് ഓട്ടോ ആപ്പ്

തിരുവനന്തപുരം നിവാസികളായ അനന്ദ് സ്റ്റാൻഡിംഗ് അയ്യപ്പൻ (3rd വർഷം) ആൻഡ് അഭിഷേക് രവി (3rd വർഷം) ആണ് ഈ ആപ്ലിക്കേഷൻ സൃഷ്ടിച്ചത്. ഈ ആപ്ലിക്കേഷൻ തദ്ദേശവാസികൾക്ക് സൗകര്യം സൃഷ്ടിക്കുകയും സഞ്ചരിക്കാനും കഴിയുന്ന വിധത്തിലാണ് ഇതിലെ വിവരങ്ങൾ കാണിക്കുക. സ്റ്റാൻഡിംഗ് അയ്യപ്പൻ ഓട്ടോ ഓഡിയോയിൽ ഓട്ടോറിക്ഷ വരിൽ പങ്കാളിയായ അയ്യപ്പൻ

'Hey Auto' APP digitalises the auto taxi service.

To aid the general public of Thiruvananthapuram-Pampady region, 'Hey Auto' an APP was created by Mr. Anand Modhavan [Final year B. Tech. CSE] and Mr. Abhishek Ravi [3rd year B. Tech. CSE, NCERC]. It was released on the occasion of NSITE 2k23. Initially this app allows people in Thiruvananthapuram panchayath to book an auto. The app will be available on Google Play store very soon.

M മാതൃഭൂമി

ഇനി 'ആപ്പി'ൽ കയറി ഓട്ടോ പിടിക്കാം...

തിരുവനന്തപുരം നിവാസികളായ അനന്ദ് സ്റ്റാൻഡിംഗ് അയ്യപ്പൻ (3rd വർഷം) ആൻഡ് അഭിഷേക് രവി (3rd വർഷം) ആണ് ഈ ആപ്ലിക്കേഷൻ സൃഷ്ടിച്ചത്. ഈ ആപ്ലിക്കേഷൻ തദ്ദേശവാസികൾക്ക് സൗകര്യം സൃഷ്ടിക്കുകയും സഞ്ചരിക്കാനും കഴിയുന്ന വിധത്തിലാണ് ഇതിലെ വിവരങ്ങൾ കാണിക്കുക. സ്റ്റാൻഡിംഗ് അയ്യപ്പൻ ഓട്ടോ ഓഡിയോയിൽ ഓട്ടോറിക്ഷ വരിൽ പങ്കാളിയായ അയ്യപ്പൻ



Abhishek R of 3rd-year CSE, stands as a co-founder of KnowLumi—an innovative EdTech startup. This accomplishment highlights his entrepreneurial spirit and dedication to advancing education through technology. Abhishek's journey adds a distinctive mark to our academic community, showcasing the potential for impactful contributions in the evolving landscape of educational innovation.



Anand and Abhishek, dedicated volunteers, made a significant mark in 2023 with their creation, "Hey Auto!" The app garnered attention in numerous newspapers and their commendable efforts were recognized by the Lions Club Vilwadi, honoring them with the Lions Innovation Award Special. Their innovation exemplifies a blend of technological prowess and community impact.



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IEEE SB NCERC WEBSITE LAUNCH

The official website of IEEE SB NCERC was launched on August 9th 2023. After months of hard work, we put forward the enhanced features and a more user-friendly experience with users.

Key Features include:

- ◆ **Content Repository:** Access an extensive array of articles, research papers, and meticulously curated resources spanning various fields.
- ◆ **Community Collaboration:** Foster connections with professionals, researchers, and enthusiasts who share your interests through engaging forums and discussion groups.
- ◆ **Events and Webinars:** Stay current with technological advancements via our thoughtfully crafted calendar of events and enlightening webinars featuring industry leaders.
- ◆ **Member Benefits:** Uncover exclusive resources, benefits, and opportunities designed specifically for IEEE members, promoting both personal and professional development.

Visit us and unlock a world of innovation. www.ieeesbncerc.org

We are Live !!

It's time to go beyond the boundaries. We are excited to launch our official website ieeesbncerc.org



IEEE SB NCERC

IEEE SB NCERC 2023 MEMBERSHIP DRIVE

The IEEE initiated its 2023 membership drive on September 29, 2022, and later launched another drive on March 14, 2023. Despite commencing with an initial membership of 130, the initiative witnessed substantial growth, reaching 172 members by December 2023.

Our members have had an exceptional experience with IEEE SB NCERC. We pledged to consistently exceed their expectations and we are proud to affirm that we have fulfilled that commitment. We have curated a diverse range of opportunities, including internal events such as Evolution and Webinar on Arduino programming, as well as external events. These initiatives have played a pivotal role in the significant rise in membership.

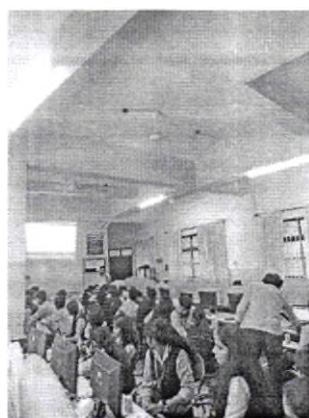
We are genuinely thrilled to witness the satisfaction and enthusiasm expressed by the students who have chosen to join our community. This positive reception reinforces our dedication to delivering valuable experiences and opportunities. As we look ahead, our confidence in the continuous growth and prosperity of our community remains unwavering. We are committed to fostering an environment where members can thrive and contribute meaningfully to their educational journey.



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WORKSHOP ON ARDUINO PROGRAMMING

On 11th April 2023, IEEE SB NCERC in collaboration with IEEE PES SBC NCERC organized a workshop on Arduino programming. Conducted by Mr. Dani V T, Managing Director and Senior Embedded Systems Engineer at Trilacious Lab the session commenced at 9:00 AM (IST). Mr. Anand M, Chair IEEE SB NCERC, extended a warm welcome to all attendees. Mr. Dani began by elucidating the fundamentals of Arduino. With 40 participants divided into 10 groups of 4, the workshop took place at the Advanced Simulation Lab, NCERC, providing refreshments to all. The session concluded at 3:30 PM (IST) soliciting feedback from participants who found it immensely beneficial for gaining practical Arduino knowledge. Ms. Neethu M, PES Student Branch Counselor NCERC, presented a token of appreciation to Mr. Dani V T. The session wrapped up at 4:00 PM (IST).



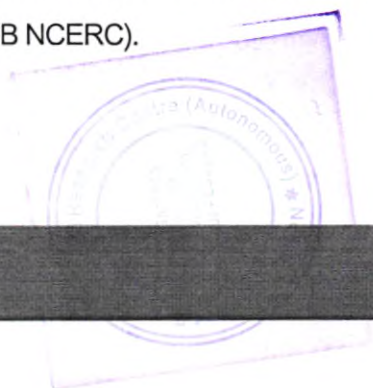
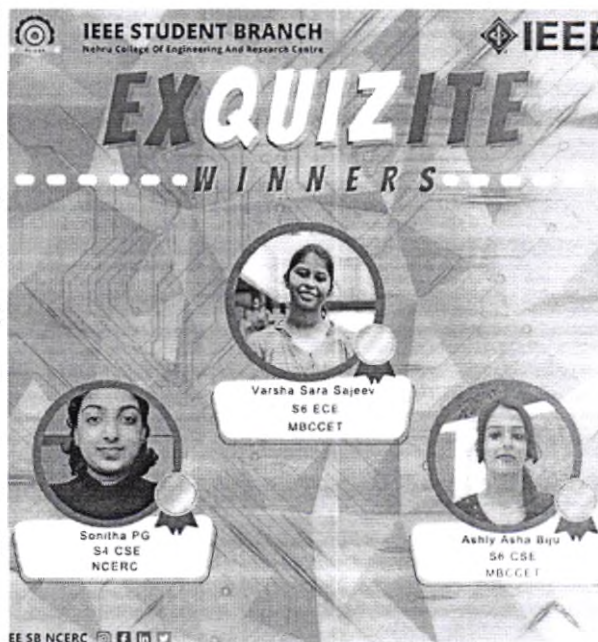
Advanced Simulation Lab,
NCERC



Advanced Simulation Lab,
NCERC

EXQUISITE

The IEEE SB NCERC organized a technology quiz called 'EXQUISITE' on June 21, 2023. It was an online quiz held through Google forms, starting at 8 p.m. (IST) and lasting for 30 minutes. Over 50 people registered for the event. WhatsApp group was created to update the participants about event details and reminders were sent via Gmail. The top three finalists were Varsha Sara Sajeev (MBCET) who won 1st prize, Sonitha P G (NCERC) who got 2nd prize and Ashly Asha Biju (MBCET) who secured 3rd prize. All participants received e-certificates, and the top three also received special certificates. The event was coordinated by Mr. Anand M (Chair of IEEE SB NCERC) and Ms. Anjali Nandana V P (Vice Chair of IEEE SB NCERC).



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Phone: 9845555555

WEBINAR ON CAREER IN MANAGEMENT THROUGH MANAGEMENT EXAMS

On August 19th, 2023, IEEE SB NCERC and ENTRI App organized a joint webinar. The event was led by Mr. C. Sivabhaskaran(M.Sc,M.Phil,MBA,PGDCA). The session started at 7:00 pm (IST) and aimed to provide insights into the different career opportunities in the field of management through management entrance exams. The webinar was conducted on Zoom and there were a total of 30 participants. The speaker highlighted the importance of pursuing management education and shared expert tips and strategies for preparing for management entrance exams. The session concluded with a Q&A session, giving attendees the chance to interact and clarify their queries. The webinar proved to be an enriching and informative session and it came to an end at 8:00 pm (IST).

ENTRI

1 Core User Downloads

IEEE



IEEE Student Branch NCERC
& EntrI App jointly Organising

Talk on Career
in Management Through
Management Exams

WEBINAR

AUGUST
18
2023
07:00 PM

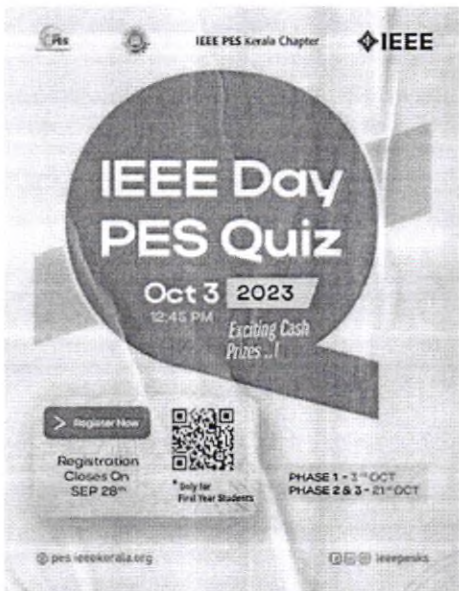


By C. SIVABHASKARAN
M. Sc., M. PHIL, MBA, PGDCA
Aptitude trainer with 15+ years experience
Two years work experience in IT as
Knowledge Manager

REGISTER NOW

IEEE DAY PES QUIZ

IEEE SB NCERC conducted a PES Quiz as a part of IEEE Day PES Quiz 2023 organized by IEEE PES Kera Chapter. The quiz took place on October 3rd, 2023, at 02:30 pm (IST) in the college. It was an offline event with duration of 30 minutes. The quiz had three finalists, with Anirudh S Nair securing the 1st position, followed by Rohan.R (AI) and Aswin P M (AI) in 2nd and 3rd place respectively. IEEE SB NCERC was regarded as the college for having the second most participation in Kerala. It was coordinated by Mr. Anand M (Chair of IEEE SB NCERC) and Ms. Anjali Nandana V P (Vice Chair of IEEE SB NCERC).



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INTRODUCTION TO COMPETITIVE PROGRAMMING

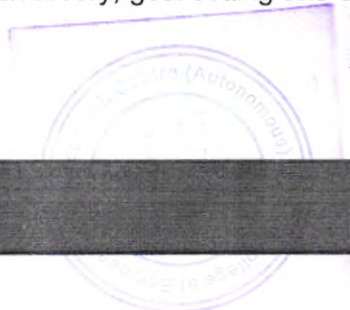
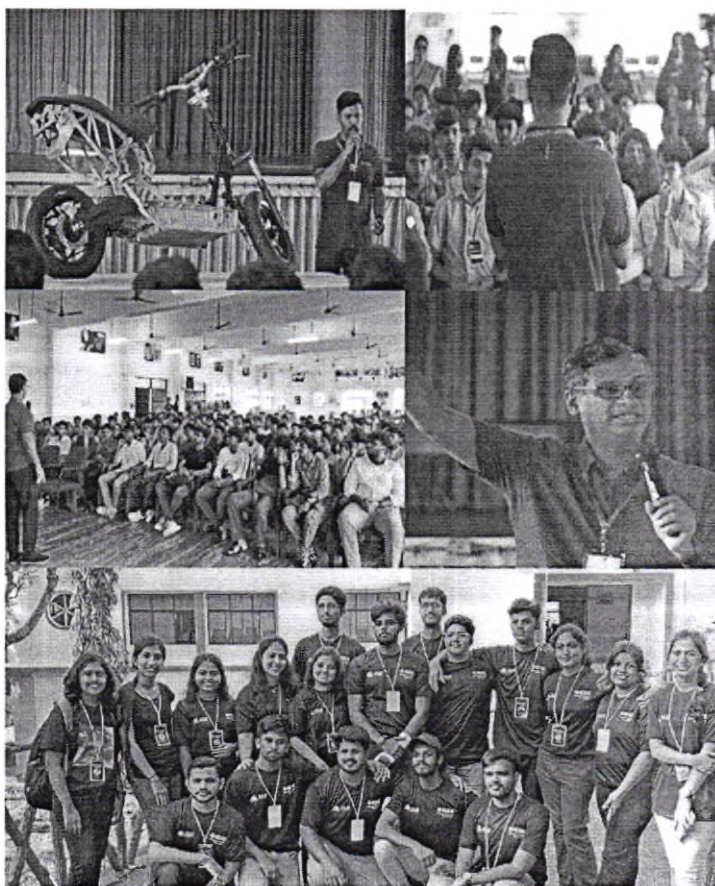
On 27th October 2023 an online event called "Introduction to competitive programming" was held in IEEE SB NCERC through Google meet . The event aimed to provide participants with an in-depth understanding of competitive programming, serving as a crucial preparation session for the upcoming IEEE Xtreme 17.0 competition. The session was led by Adithya, a seasoned coder and designer, provided an ultimate coding experience. Participants tackled three problems: identifying common factors, minimizing costs while painting houses with no adjacent houses sharing the same colour and swapping two numbers without a temporary variable. Adithya's expert guidance and valuable insights enriched the learning experience, offering practical strategies for problem-solving. The event successfully equipped participants with essential skills for competitive programming challenges.



EVOLUTION

IEEE SB NCERC organized a one-day event "Evolution" on 19th September 2023. It was an engaging and informative event that paved way for educating participants on a sustainable and eco-friendly future. This event consisted of two exhilarating sessions, an EV Workshop collaborated with Ather Energy and a professional talk session by Dr.Thomas George K.

Dr.Sobha Manakkal, SB Counsellor welcomed Mr.Maneesh and Mr.Prasanth representatives from Ather Energy to begin the morning workshop session. Skeleton models of vehicle were presented by the company. The session was designed to provide participants with a comprehensive understanding of Electric Vehicles (EVs) and the future of sustainable mobility. A vehicle for test drives was also provided by the company. Students got familiarized with the gear, battery system and other integral parts of the vehicle. The afternoon session was on "Unlocking your career potential". It was an astonishing and interactive session with interesting activities. The session was handled by Dr.Thomas George K (Chairman and Director of the Lead College of Management). The event featured an insightful and motivational discussion on various aspects of career development, including self-discovery, goal setting and skill development.

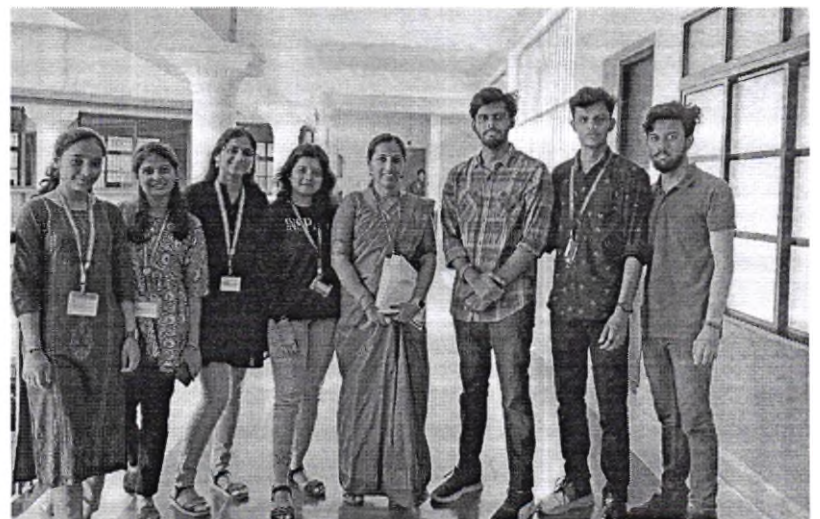
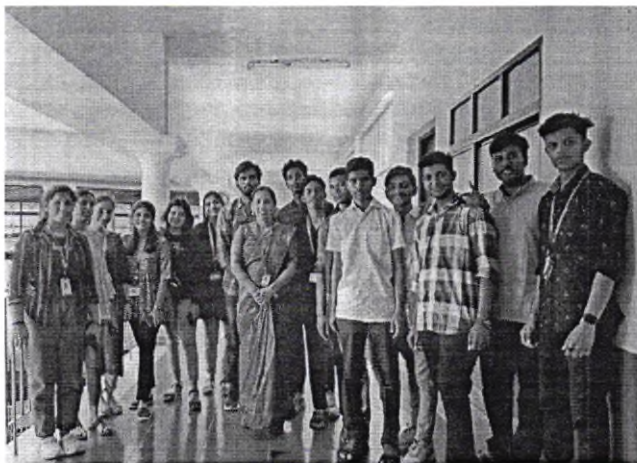


Thomas George K

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IDEATE

As part of NSITE 2023, IEEE SB NCERC and IEDC NCERC jointly organised an event "IDEATE". It was an engaging idea pitching competition held on November 20-21, 2023. It served as a platform for budding innovators to showcase their creativity and entrepreneurial spirit. Students from both within and outside Kerala brought diverse perspectives to the event. The event consisted of two rounds, with four teams advancing to the final round based on the quality of their presentations. The decisions were solely based on the participant's pitches. HOD of mechatronics department Dr. Vijaya Kumar and Mr. Anto Francis of EEE department were judges for the first round. The final teams presented their work to Dr. Karibasappa Kwadiki, the Principal of NCERC and The Head of the Mechatronics Department, Dr. Vijaya Kumar and Dr. Sudheer S Marar who served as judges for the final round. The winning team was awarded a cash prize of 10,000 INR. Ideate not only showcased the innovative ideas of the participants but also fostered a collaborative spirit among students from different regions. The collaborative effort of IEEE SB NCERC and IEDC NCERC, coupled with the enthusiasm of the participating teams, made Ideate a successful and memorable part of the Nsite 2023.



Principal
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Ganes, Pampady
Thiruvilwamala, Thrissur - 686561

A Glimpse Through the Year



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Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pambur
Thiruvilwamala, Thrissur

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Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gardens, Pampady
Thiruvithuram, Tamil Nadu - 626 008



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PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
Nila Gadda, Pambur
Tiruvallur, Tamil Nadu - 601 308