

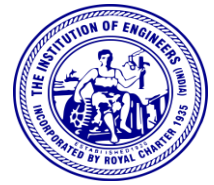


SAKTHI POLYTECHNIC COLLEGE, SAKTHINAGAR

The Institution of Engineers (India)

SPC Students Chapter (ID:638315/SPC)

E-MAGAZINE ACTIVITY REPORT 2025-2026



Mr.V.Velu/ Coordinator

Mr.V.Manimuthu/ Advisor

Engineers' Day: Celebrating Engineering Excellence:

September 15: The Institution of Engineers (India) (IEI), SPC Student Chapter, celebrated the 58th Engineers' Day commemorating the birth anniversary of Bharat Ratna Sir M. Visvesvaraya. Centered on the theme "Basic Engineering Measurement for Emerging Engineers," the event highlighted the importance of foundational engineering knowledge. The program featured inspiring addresses by Mr. V. Velu, Dr. S. Senthilarasu, and Dr. K. R. Muthuswamy, followed by an engaging quiz competition that showcased students' technical skills and enthusiasm. Winners were honored with prizes and certificates, encouraging academic excellence among participants. The event concluded with a vote of thanks by Selvan M. Jeevahan, Student Leader of the IEI Student Chapter. Guided by Mr. V. Manimuthu, Advisor, IEI SPC Chapter, the celebration was a memorable and impactful occasion for all attendees.



One-Day Workshop on "Applications of Drones in Engineering"

The IEI SPC Students' Chapter organized a One-Day Workshop on "Applications of Drones in the Engineering Field" on 19.09.2025 to provide students with insights into the growing role of drone technology across engineering disciplines. The session featured addresses by Mr. V. Velu, Dr. R. Shanmugam, Dr. S. Senthilarasu, and Dr. K. R. Muthuswamy, who emphasized the importance of emerging technologies in engineering education. The technical session was conducted by Mr. A. Selvam, Managing Director, M/s Land Coordinates Technology, Chennai, who explained the applications of drones in civil, agricultural, mechanical, and electronics engineering through practical examples and demonstrations. The program concluded with a vote of thanks by Mr. S. Manikandan. Organized under the guidance of Mr. V. Manimuthu, Advisor, IEI SPC Students' Chapter, the workshop was highly informative and inspiring for the participants.



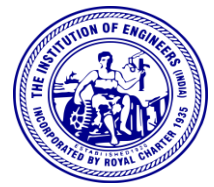


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Model Competition - Brick Laying Contest for Civil Engineers 12.09.2025



The Institution of Engineers (India) Students' Chapter successfully organized a Model Competition titled **"Brick Laying Contest for Civil Engineers"** with the objective of enhancing practical skills and promoting hands-on learning among civil engineering students. The competition provided an excellent platform for participants to demonstrate their technical knowledge, workmanship, and understanding of construction practices. The event witnessed enthusiastic participation from students, who showcased their abilities in brick bonding, alignment, leveling, and finishing techniques as per standard construction norms. Participants were evaluated based on accuracy, quality of workmanship, time management, and adherence to safety practices. The contest encouraged healthy competition and fostered a spirit of professionalism among budding civil engineers. Faculty members and IEI Student Chapter coordinators acted as judges and mentors, guiding students and offering valuable feedback on improving practical efficiency and site discipline. The competition also emphasized the importance of skill-based learning in civil engineering education, bridging the gap between theoretical concepts and real-world applications. Overall, the Brick Laying Contest was well organized and highly beneficial for the participants. It enhanced students' confidence, practical exposure, and appreciation for construction craftsmanship. The event concluded with the announcement of winners and distribution of certificates, marking the competition as a memorable and enriching experience for all involved.

IEI- Students' Chapter Committee Meeting on 29.09.2025



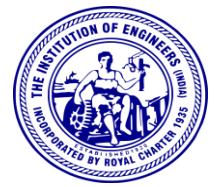


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Mr.V.Velu/ Coordinator

Mr.V.Manimuthu/ Advisor

The Committee Meeting of The Institution of Engineers (India) Students' Chapter was successfully conducted on 29th September 2025 at our institution in the presence of the Director, Principal, Advisor, Local Chapter officials, Coordinator, Convener, Committee Members, and Student Chapter Members. The meeting focused on strengthening student engagement, increasing membership enrollment, and planning technical activities such as seminars, workshops, industrial visits, and competitions. Members actively shared ideas to enhance the Chapter's impact and professional growth. The session concluded with appreciation for the members' continuous support and enthusiasm. The shortlisted committees for the IEI Students' Chapter were also announced.

Technical Visit on Sewage Water Treatment plant at Kongu Engineering College, Perundurai on the theme "The Smart Water Revolution: Turning Sewage into a Valuable Resource" organised by IEI SPC Students' Chapter on 09.10.2025

The IEI Students' Chapter of Sakthi Polytechnic College organized a one-day technical visit to the Sewage Water Treatment Plant (STP) at Kongu Engineering College, Perundurai. The visit was conducted under the theme "The Smart Water Revolution: Turning Sewage into a Valuable Resource", with the aim of providing students with hands-on exposure to sustainable water management practices and modern wastewater treatment technologies.

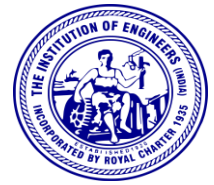


A total of 50 IEI Student members participated in the visit, accompanied by their faculty advisor and coordinators. The event commenced with an informative session by the STP in-charge engineer, who presented an overview of the plant's treatment capacity, flow process, and its environmental significance. Students were then taken on a guided tour through each stage of the treatment process, including screening, sedimentation, aeration, biological filtration, and disinfection.

A key highlight of the visit was the plant's integration of smart technologies, such as automated monitoring systems and IoT-based sensors for real-time water quality assessment. These innovations enable efficient and continuous wastewater management, enhancing both ecological sustainability and operational reliability.

At Kongu Engineering College, sewage is systematically collected from two main sources: the student hostels and academic buildings, including engineering and polytechnic blocks. The collected sewage is channelled to a centralized treatment facility, where it undergoes continuous processing. A standby treatment unit is also maintained to ensure uninterrupted operation around the clock.

The treated water is reused within the campus for purposes such as irrigation, toilet flushing, and landscaping, exemplifying a practical model of wastewater reuse and water conservation. During



Mr.V.Velu/ Coordinator

Mr.V.Manimuthu/ Advisor

the visit, students engaged actively with the plant's technical staff, gaining valuable insights into sludge management, energy efficiency, and the scalability of such systems in urban infrastructure.

The visit underscored the importance of perceiving wastewater as a resource rather than a waste product—perfectly aligning with the event's theme. It inspired students to think critically about sustainable water solutions and the role of smart technologies in environmental engineering.

Overall, the technical visit was a resounding success. It fostered experiential learning and reinforced the IEI SPC Students' Chapter's mission to bridge the gap between theoretical knowledge and practical application.

Poster Competition on Road Safety Awareness" organised by IEI SPC Students' Chapter on 30.10.2025

The Institution of Engineers India (IEI) Students' Chapter SPC hosted a vibrant and impactful *Poster Competition on Road Safety Awareness* aimed at raising consciousness among young engineers about the importance of road safety. The event, which took place at SPC Drawing Hall, brought together 30 enthusiastic IEI student members who showcased their creative and thought-provoking artwork. The competition was organized to raise awareness about the alarming rise in road accidents and to highlight the role each individual can play in ensuring safer roads for all.

The posters created by participants featured powerful messages on issues such as the importance of seatbelts, helmet usage, responsible driving, pedestrian safety, and the dangers of drunk driving. Each piece of art was a unique reflection of the participants' understanding and commitment to promoting road safety.



The event was inaugurated by the Director and Principal of Sakthi Polytechnic College, who emphasized the critical need for education and advocacy to reduce road accidents.

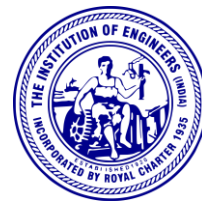
"As future engineers, it is our responsibility to not only design and build infrastructure but to also ensure that these spaces are safe for everyone. Road safety starts with awareness, and initiatives like this provide an excellent platform to engage and educate," said by the Judges.

A panel of judges, including esteemed members of IEI, reviewed the posters based on creativity, clarity of message, relevance to the theme, and overall impact. In addition to encouraging awareness, the competition also sought to foster collaboration and innovation among the student members of IEI. The prizes were awarded to the winners.

Speaking on behalf of the organizing team, the Coordinator and Advisor expressed gratitude to the participants for their efforts and creative contributions. "The participation and enthusiasm shown by all the students today have been truly inspiring. This competition has not only helped raise awareness about road safety but has also allowed us to reflect on how each of us can play a part in making our roads safer," the Coordinator stated.



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Aptitude Testing and Professional Skill Enhancement Programme for Student Members on 28.11.2025



The Institution of Engineers (India) – Student Chapter organized an Aptitude Test for IEI student members on 28 November 2025 at the E6 Laboratory. The event was conducted with the primary objective of enhancing the professional learning skills of the participants and preparing them for competitive examinations, campus recruitments, and professional certifications. The session began with a brief introduction explaining the importance of aptitude skills such as logical reasoning, numerical ability, analytical thinking, and verbal comprehension. These competencies play a crucial role in technical problem-solving, decision-making, and overall career development in engineering disciplines. A well-structured aptitude question set was administered to the students, covering quantitative aptitude, reasoning ability, and basic engineering-related problem-solving. The test was conducted under a monitored environment to simulate real exam conditions, allowing students to evaluate their speed, accuracy, and time-management skills. More than 40 students participated in the event with great enthusiasm (number can be added). After completion of the test, the evaluators provided feedback on common mistakes, strategies to improve performance, and recommended resources for further practice. Students expressed that the test was highly beneficial in identifying their strengths and areas requiring improvement.

Technical Visit – Build Expo 2025 on 27.12.2025



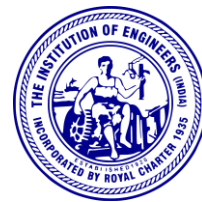


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IEI Student Members from Civil Engineering and other branches visited **Build Expo 2025** held at **Erode**. The visit provided valuable exposure to modern construction practices and emerging technologies. During the expo, students gained knowledge about quality construction materials, advanced building products, and innovative techniques used in house and industrial construction. Various stalls showcased new trends in sustainable construction, prefabricated structures, and smart building solutions. Interaction with industry experts helped students understand practical challenges and current market requirements. The visit was highly informative and enhanced the students' awareness of recent developments in the construction and infrastructure sector.

Lecture - Recent Advancements in Rebar Detailing for Civil Engineers on 31.12.2025



The IEI Student Chapter successfully organized a one-day technical lecture on Recent Advancements in Rebar Detailing for Civil Engineers, aimed at enriching the academic and professional acumen of budding engineers. The program was conceived to bridge the gap between theoretical knowledge and contemporary industry practices, with a particular emphasis on emerging methodologies and technological innovations in reinforcement detailing. The lecture provided an in-depth exploration of modern rebar detailing techniques, highlighting their critical role in enhancing structural integrity, constructability, and compliance with evolving codal provisions. The resource person elaborated on the integration of advanced software tools, Building Information Modeling (BIM), and automation in rebar detailing, which have significantly improved accuracy, efficiency, and coordination in complex construction projects. Special attention was given to clash detection, optimization of reinforcement layouts, and reduction of material wastage, thereby contributing to sustainable construction practices.

The Institution of Engineers (India) – Students' Chapter Committee Meeting on 31.12.2025

The Committee Meeting of The Institution of Engineers (India) – Students' Chapter was successfully conducted on 31.12.2025 at our institution. The meeting was presided over by the Director, Principal, Advisor, Local Chapter Official, along with the Coordinator, Convener, Committee Members, and active Student Chapter Members.

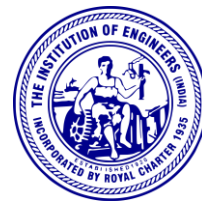


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The session commenced with a warm welcome address by the Convener, who emphasized the importance of collective participation in strengthening and advancing the Students' Chapter. The Advisor subsequently shared valuable insights and guidance on enhancing professional activities and improving the visibility of the Chapter both within the campus and in external professional forums.

The key agenda items discussed during the meeting included:

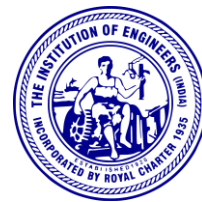
- Strengthening the Chapter through increased student engagement and professional development initiatives.
- Enhancing new member enrollment by creating awareness about the benefits and opportunities offered by The Institution of Engineers (India).
- Planning upcoming activities such as technical events, seminars, workshops, industrial visits, and competitions aimed at improving students' technical knowledge and practical exposure.

Group Discussion on Enhancing Professional Skills among Student Members on 06.01.2026





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The IEI Students' Chapter organised a Group Discussion on Enhancing Professional Skills among Student Members with the objective of improving students' employability, communication abilities, and overall professional competence. The programme was designed to provide a platform for students to express their ideas, share experiences, and develop essential skills required for their future careers in engineering and allied fields. The session began with an introductory address by the Chapter Coordinator, who highlighted the importance of professional skills such as effective communication, teamwork, leadership, time management, and ethical responsibility. Students were briefed on the format and objectives of the group discussion, encouraging active participation and respectful exchange of views. Student members were divided into small groups and assigned relevant topics related to professional development, workplace ethics, emerging industry trends, and the role of engineers in society. Each participant was given an opportunity to present their views, listen to others, and respond constructively. This interactive approach helped students build confidence, improve their speaking and listening skills, and enhance critical and analytical thinking. Faculty members and IEI advisors observed the discussions and provided valuable feedback on communication style, clarity of thought, body language, and teamwork. Constructive suggestions were offered to help students overcome hesitation, improve articulation, and develop a professional attitude. The group discussion concluded with a summarisation of key learning points and a motivational address emphasizing continuous self-improvement. The programme was highly beneficial, enabling student members to recognize their strengths, address their weaknesses, and prepare themselves to meet professional challenges effectively. Overall, the event was successfully conducted and received positive feedback from participants.

Seminar - Importance of spoken English for Placement on 06.01.2026



The Institution of Engineers (India) (IEI) organized an informative and engaging seminar on "Importance of Spoken English for Placement" for its members, with the objective of enhancing their English fluency and communication skills to meet current placement requirements. The seminar highlighted the crucial role of spoken English in professional growth, interviews, group

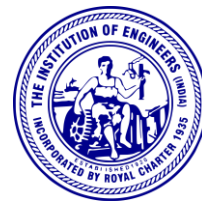


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discussions, and workplace communication. In today's competitive job market, technical knowledge alone is not sufficient; effective communication skills play a vital role in securing placements. Keeping this in view, the seminar focused on building confidence, improving pronunciation, expanding vocabulary, and developing clarity in speech. Practical tips were shared on how to communicate ideas effectively during interviews, presentations, and professional interactions. The resource person emphasized common challenges faced by students and young professionals while speaking English and provided simple strategies to overcome hesitation and fear. Interactive activities and real-life examples made the session lively and engaging, encouraging active participation from IEI members. The seminar proved to be highly beneficial, motivating participants to continuously improve their spoken English skills. Overall, the initiative successfully supported IEI's mission of holistic professional development by equipping members with essential communication skills required for successful placements and career advancement.

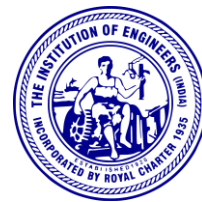
Lecture on Entrepreneurship Awareness on 10.01.2026



Entrepreneurship is the driving force behind innovation and economic growth, and understanding its significance can open doors to a world of opportunities for students. This lecture aims to raise awareness among student members about the entrepreneurial journey, key skills, and the mindset required to succeed as an entrepreneur. The first step in entrepreneurship is identifying and recognizing opportunities. An entrepreneurial mindset involves curiosity, creativity, and a willingness to take calculated risks. Students should learn to view challenges as opportunities for growth, with a focus on problem-solving and resourcefulness. In addition, developing a strong work ethic, resilience, and adaptability is essential to overcoming setbacks. Entrepreneurship also requires critical business skills, such as financial literacy, marketing, and strategic planning. Students must be equipped with the tools to create a business plan, secure funding, and manage day-to-day operations effectively. Networking with industry professionals, participating in startup incubators, and engaging in hands-on projects can further enhance practical skills.



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Technical Activity - National Youth Day Celebrations Speech on “Engineering in Every Day Life” on 12.01.2026



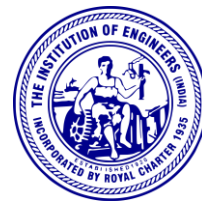
The National Youth Day Celebrations held on January 12th were marked by an insightful and engaging speech on the theme “Engineering in Everyday Life.” The event aimed to highlight the significance of engineering in our daily activities and inspire the youth to recognize its impact on shaping the future. The speech began by emphasizing how engineering influences our everyday routines, from basic necessities like electricity and clean water to advanced technology such as and transportation systems. The speaker explained that engineering is not confined to large-scale infrastructure projects but is integrated into almost every aspect of modern life, making tasks more efficient and enhancing overall quality of life. A particular focus was placed on how young minds can harness the power of engineering to drive innovation and solve pressing global challenges. The speaker encouraged students to explore engineering as a career option, stressing that it’s a field that nurtures creativity, problem-solving, and sustainability. The speech concluded with a call to action for the youth to view engineering not just as a profession but as a tool for making a meaningful impact in society. The event left students motivated and inspired to consider the possibilities of engineering in their future endeavors.

Lecture on Heat and Surface Treatment on 22.01.2026





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The IEI Student Chapter successfully organized a technical lecture on “Heat and Surface Treatment” for the benefit of Mechanical and Electrical Engineering student members. The primary objective of the lecture was to provide students with practical and theoretical knowledge of heat treatment and surface treatment processes used in modern industries. The session focused on explaining the importance of heat and surface treatment in enhancing the mechanical properties, durability, and performance of engineering components. The resource person elaborated on various heat treatment processes such as annealing, normalizing, hardening, and tempering, highlighting their applications in improving strength, hardness, and toughness of materials. In addition, students were introduced to surface treatment techniques including carburizing, nitriding, coating, and surface hardening, which play a crucial role in increasing wear resistance, corrosion protection, and service life of components. The lecture emphasized the relevance of these processes in industries such as manufacturing, automotive, power generation, and electrical equipment production. Real-world examples and industrial applications helped students understand how proper selection of treatment methods impacts product quality and efficiency. Students actively participated in the session and clarified their doubts through interactive discussions. The lecture enhanced their understanding of material behavior and encouraged them to relate theoretical concepts with practical applications. Overall, the lecture proved to be highly informative and beneficial, enriching the technical knowledge of Mechanical and Electrical students and supporting their academic and professional development..

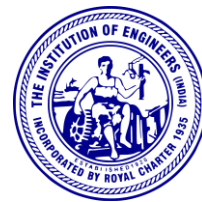
Poster Competition on AI for Engineers on 27.01.2026



The IEI Students’ Chapter successfully organized a Poster Competition on “AI for Engineers” for student members, with the objective of promoting awareness, creativity, and technical understanding of Artificial Intelligence and its growing role in modern engineering practices. The competition provided a vibrant platform for students to showcase their innovative ideas, analytical skills, and visual communication abilities. Participants presented posters highlighting various aspects of AI, including its applications in civil, mechanical, electrical, electronics, and computer engineering, as well as emerging trends such as machine learning, automation, smart systems, and ethical considerations in AI. The event encouraged students to explore how AI-driven solutions can address real-world engineering challenges and contribute to sustainable development. The competition witnessed enthusiastic participation from student members, reflecting their keen



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interest in advanced technologies and interdisciplinary learning. The posters were evaluated by a panel of judges based on criteria such as technical content, originality, clarity of concept, visual appeal, and relevance to engineering applications. The judges appreciated the depth of research and innovative thinking demonstrated by the participants. The Poster Competition not only enhanced students' technical knowledge but also helped them develop presentation, communication, and critical thinking skills. Such initiatives by the IEI Students' Chapter play a vital role in bridging the gap between academic learning and industry-oriented technologies. Overall, the event was a great success and contributed significantly to fostering a culture of innovation, creativity, and professional growth among student members.

Guest Lecture on "From Diploma Student to Industry-Ready Engineer" Organized by IEI SPC Student Chapter on 14.02.2026

The IEI SPC Student Chapter organized a distinguished Guest Lecture with the noble objective of empowering students with the insight, competence, and professional acumen required to thrive in the dynamic engineering arena. The programme stood as a meaningful academic endeavour, thoughtfully designed to bridge the gap between institutional education and the ever-evolving expectations of the industrial world.



The event commenced with a gracious Welcome Address by Mr. V. Velu, Coordinator, IEI SPC, who warmly received the dignitaries and participants, highlighting the importance of aligning technical education with industry standards. The Presidential Address was delivered by Dr. S. Senthil Arasu, Principal, who eloquently emphasized the institution's commitment to nurturing competent, ethical, and industry-ready engineers. The Felicitation Address by Dr. K. R. Muthuswamy, Director, added prestige to the occasion as he acknowledged the eminence and contributions of the resource person.

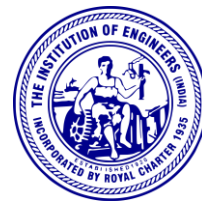
The keynote lecture was delivered by Dr. R. Kumaravelan, Former Chairman, IEI Local Centre, Erode, and Professor and Head of the Department of Mechanical Engineering, VCET, Erode. His erudite discourse enlightened students on professional adaptability, technical mastery, communication skills, and lifelong learning as indispensable attributes of a successful engineer.

The entire programme was guided and supported by Dr. S. Chitra, Head of the Department of EEE, whose encouragement ensured its academic value and seamless execution.

The session was elegantly compered by Selvi. S.Govarthini, Computer II Year and Selvi A. Angel, Computer II Year. The Vote of Thanks was proposed by Selvan C. M. Jeevahan, EEE II Year, expressing heartfelt gratitude to all contributors.



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The event was meticulously organized and coordinated by Mr. V. Manimuthu, Advisor, IEI SPC. The overall arrangements were efficiently managed by Mr. R. Vignesh, Mr. B. Sudhir, and Mr. A. Y. Ranjith, Final Year Civil Engineering students, ensuring the grand success of the programme.

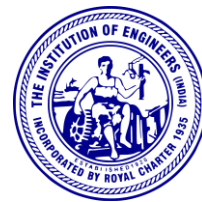
Film show : Connections Event Engineering behind Science National Science Day Celebrations on 28.02.2026



The IEI Student Chapter organized a vibrant “Connections Event – Engineering Behind Science” as part of the National Science Day celebrations, bringing together enthusiastic student members to explore the vital link between scientific principles and engineering applications. The event aimed to highlight how fundamental scientific discoveries form the backbone of modern engineering innovations that shape everyday life. National Science Day, celebrated to honor the discovery of the Raman Effect by Sir C. V. Raman, serves as a reminder of the importance of scientific thinking and research in national development. In this spirit, the IEI Student Chapter designed the “Engineering Behind Science” event to encourage students to understand how science transforms into practical engineering solutions across various fields. The program featured interactive sessions, technical discussions, and engaging activities that demonstrated the real-world application of scientific concepts in areas such as energy systems, communication technology, manufacturing, construction, and automation. Student members actively participated in presentations, quizzes, and group discussions, showcasing their knowledge and innovative thinking. The event also emphasized the importance of research, experimentation, and problem-solving in engineering practice. Participants explored how physics, chemistry, and mathematics form the foundation for technological advancements and sustainable development. Through collaborative learning activities, students enhanced their analytical skills, creativity, and



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teamwork. The celebration created an inspiring academic environment, motivating IEI student members to cultivate curiosity and scientific temper. It reinforced the idea that engineering is not separate from science but is, in fact, its practical extension. Overall, the Connections Event successfully marked National Science Day with enthusiasm and intellectual engagement. The initiative reflected the IEI Student Chapter's commitment to fostering innovation, critical thinking, and a deeper appreciation of science and engineering among budding professionals.

Paper Presentation - Advanced Concrete Technology for Building Construction on 03.02.2026



The IEI Student Chapter successfully organized a Paper Presentation on “Advanced Concrete Technology for Building Construction” with the objective of enhancing technical knowledge and research orientation among civil engineering students. The event focused on recent innovations in concrete technology, emphasizing both production techniques and practical applications in modern construction. IEI Civil Student members actively participated in the event, forming teams of two members to present papers on emerging advancements in concrete technology. The presentations covered a wide range of topics, including high-performance concrete, self-compacting concrete, fiber-reinforced concrete, geopolymer concrete, nano-modified concrete, and sustainable concrete materials. Special emphasis was given to eco-friendly alternatives, durability enhancement, strength optimization, and cost-effective construction practices. Participants highlighted recent developments in mix design methods, material optimization, use of industrial by-products, and advanced curing techniques. The application of advanced concrete in high-rise buildings, bridges, pavements, and marine structures was discussed with relevant case studies. The presenters demonstrated a clear understanding of how modern concrete technology contributes to improved structural performance, sustainability, and longevity of buildings. The event provided an excellent platform for students to develop technical presentation skills, teamwork, and confidence while promoting research-based learning. Faculty members and judges appreciated the depth of analysis, clarity of explanation, and relevance of the topics presented. Overall, the paper presentation was a great success and proved to be a valuable academic activity. It encouraged students to explore innovative construction materials and reinforced the importance of advanced concrete technology in shaping the future of the construction industry.

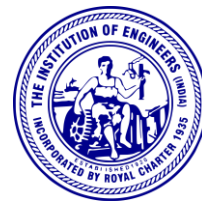


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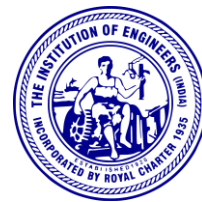
Paper Presentations in Advanced Topics (SAKTHI 2K26 Event) 27.02.2026



The IEI Student Chapter, in association with the SPC, successfully organized SAKTHI 2K26 – A National Level Symposium, bringing together innovative minds from various polytechnic colleges across the country. The event served as a dynamic platform for students to showcase their technical knowledge, research aptitude, and presentation skills through paper presentations on emerging engineering trends. The symposium featured a wide range of contemporary and industry-relevant topics. Participants presented insightful papers on Applications of IoT in Structural Maintenance, highlighting how smart sensors and real-time monitoring systems enhance infrastructure safety and longevity. The session on IoT and Additive Manufacturing in the Automotive Industry explored how smart manufacturing and 3D printing technologies are revolutionizing vehicle production and customization. Another key focus area was Composite Materials for Aerospace Applications, where students discussed lightweight, high-strength materials that improve aircraft performance and fuel efficiency. The topic Next Generation Agriculture emphasized smart farming techniques, precision agriculture, and sustainable practices powered by IoT and AI. Technical discussions also included Solid State Transformers, showcasing advancements in power electronics for efficient energy management. The session on Emerging Trends in 5G & 6G highlighted the future of ultra-fast, low-latency communication technologies and their impact on smart cities and autonomous systems. Participants also explored Augmented Reality in Human-Computer Interaction, demonstrating how immersive technologies enhance user experience and training systems. Additionally, papers on AI in Industrial Automation focused on intelligent systems that optimize productivity and reduce operational costs. SAKTHI 2K26 provided an enriching academic experience, encouraging innovation, critical thinking, and technical excellence among budding engineers. The symposium not only strengthened industry-academia interaction but also inspired students to stay updated with cutting-edge technological advancements and contribute meaningfully to the future of engineering and technology.



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ACTIVITY REPORT MARCH 2026



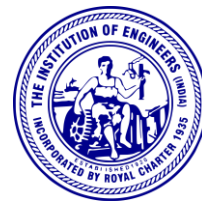
Project Presentations (SAKTHI 2K26 Event) on 27.02.2026



The IEI Student Chapter, in association with SPC, successfully organized **SAKTHI 2K26 – A National Level Symposium**, featuring an engaging and innovative Project Presentation event. The symposium served as a dynamic platform for students from various polytechnic colleges to showcase their technical creativity, practical knowledge, and problem-solving skills. The Project Presentation session attracted enthusiastic participation from students representing different institutions across the region. Participants presented working models and innovative prototypes addressing real-world engineering challenges. The projects covered diverse domains such as renewable energy systems, smart irrigation models, automated industrial applications, robotics, embedded systems, sustainable construction techniques, and smart city solutions. Students demonstrated strong technical understanding and practical implementation skills through live demonstrations and detailed explanations of their projects. Many projects focused on sustainable and eco-friendly technologies, reflecting the growing awareness of environmental responsibility among young engineers. Innovative automation systems and IoT-based solutions were particularly appreciated for their relevance to modern industry needs. The evaluation panel, consisting of experienced faculty members and industry experts, assessed the projects based on innovation, technical feasibility, presentation skills, and societal impact. Judges commended the participants for their creativity, confidence, and ability to apply theoretical concepts to practical applications. SAKTHI 2K26 provided an excellent opportunity for knowledge exchange, peer learning, and academic interaction. The event encouraged students to think beyond textbooks and develop industry-ready skills. It also fostered teamwork, communication skills, and confidence among participants. The successful organization of the symposium reflects the commitment of the IEI Student Chapter and SPC in promoting technical excellence and innovation among budding engineers. SAKTHI 2K26 stands as a milestone event that inspired students to pursue research, entrepreneurship, and technological advancement for the betterment of society.



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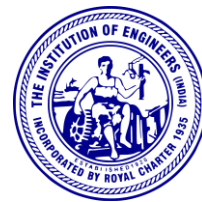
Aptitude Test on Professional Language Skills on 04.03.2026



The IEI Student Chapter organized an Aptitude Test on Professional Language Skills for student members with the objective of improving their communication abilities and preparing them for professional and competitive environments. In today's highly competitive world, technical knowledge alone is not sufficient; strong language and communication skills are equally important for career growth, workplace interaction, and professional success. Keeping this in mind, the student chapter arranged this aptitude test to help students assess and enhance their proficiency in professional language usage. The test was designed to evaluate various aspects of professional communication including grammar, vocabulary, comprehension, sentence formation, and technical communication skills. The questions were carefully structured to reflect real-life professional scenarios such as writing formal emails, understanding technical passages, and selecting appropriate professional expressions. Through this test, students were able to identify their strengths and areas that require improvement in language usage. A large number of student members from different engineering disciplines actively participated in the test. The event created an engaging academic environment where students could challenge themselves and gain confidence in their language abilities. The aptitude test also encouraged students to think critically, improve their reading comprehension, and develop clarity in expressing technical ideas. Faculty coordinators and student coordinators of the IEI Student Chapter efficiently organized the event and ensured smooth conduct of the test. The evaluation process was carried out systematically, and the top-performing students were recognized for their excellent performance. Such recognition motivated participants to further enhance their professional communication skills. Overall, the aptitude test served as a valuable platform for students to strengthen their professional language competencies, which are essential for interviews, presentations, group discussions, and workplace communication. The event successfully fulfilled its objective of promoting the importance of language proficiency alongside technical expertise among engineering students. The IEI Student Chapter continues to organize similar skill development activities to support the holistic development of its student members.



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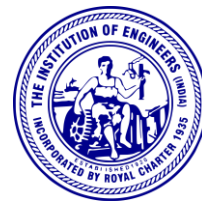
Workshop on Advanced Calibration Techniques for Concrete and Steel Testing Equipments
on 13.03.2026



The IEI Student Chapter successfully organized a technical workshop on “Advanced Calibration Techniques for Concrete and Steel Testing Equipments” for the benefit of student members. The workshop aimed to provide practical knowledge about the calibration procedures and accuracy requirements of testing equipment used in civil engineering laboratories and construction industries. The session focused on the importance of proper calibration in ensuring the accuracy and reliability of test results related to concrete and steel materials. The resource person explained that calibration plays a crucial role in maintaining quality standards in construction projects, as incorrect measurements may lead to errors in design, material evaluation, and structural performance. During the workshop, the participants were introduced to various testing instruments commonly used in civil engineering laboratories, including compression testing machines, universal testing machines, rebound hammers, and other equipment used for assessing the strength and properties of concrete and steel. The resource person demonstrated advanced calibration methods and explained the procedures followed to verify and adjust the accuracy of these instruments according to standard guidelines. The workshop also highlighted the significance of national and international standards followed in calibration practices to ensure uniformity and quality control in testing laboratories. Students learned about the steps involved in calibration, documentation processes, periodic verification, and the importance of maintaining properly calibrated equipment for reliable testing results. The session was highly interactive, allowing students to ask questions and clarify their doubts regarding testing procedures, calibration intervals, and practical applications in construction projects. The workshop helped students gain valuable exposure to real-world laboratory practices and enhanced their understanding of quality assurance in civil engineering materials testing. Overall, the workshop proved to be highly informative and beneficial for the student members. The IEI Student Chapter expressed its sincere appreciation to the resource



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person for delivering an excellent technical session and providing students with valuable practical insights into advanced calibration techniques used in concrete and steel testing equipment.

Seminar on Sustainable paper and Board Manufacturing on 18.03.2026



The IEI Student Chapter organized an informative seminar on “Sustainable Paper and Board Manufacturing” for core branch student members. The seminar aimed to create awareness about eco-friendly practices and modern technologies adopted in the paper and board industry to minimize environmental impact. The session focused on sustainable manufacturing processes, including the use of renewable raw materials such as agricultural residues and responsibly sourced wood pulp. Emphasis was given to efficient water management practices, where industries adopt closed-loop systems to reduce water consumption and recycle wastewater. The speaker also highlighted energy-efficient technologies, such as the use of biomass and cogeneration systems, which help reduce carbon emissions. In addition, the seminar covered advanced pulping and bleaching techniques that minimize the use of harmful chemicals, ensuring a cleaner production process. Waste management strategies, including recycling of paper and recovery of by-products, were also discussed as key components of sustainable manufacturing. The seminar provided valuable insights into how the paper industry is evolving towards greener practices while maintaining product quality. Students actively participated in the discussion and gained a deeper understanding of the importance of sustainability in industrial processes. Overall, the event was highly beneficial in enhancing the technical knowledge and environmental awareness of the participants.

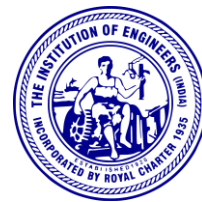


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Poster Competition on theme “The Water” for World Water Day Celebration on 23.03.2026

Information Brochure

SAKTHI POLYTECHNIC COLLEGE
SAKTHINAGAR, ANTHIYUR, ERODE-638315

The Institution of Engineers (India)
SPC STUDENTS' CHAPTER (ID:638315/SPC)

Cordially Invites You for the
WORLD WATER DAY CELEBRATION 2026
POSTER PRESENTATION EVENT ON THE THEME
"THE WATER"

CHIEF PATRONS
Dr.K.R.Muthuswamy Director/ SPC
Dr.S.Senthil Arasu Principal/ SPC

JURY
Mr.K.SARAVANAN
LECTURER (Sel.Gr.- I) & HOD (i/c)
Dept. of Electronics & Communication Engineering
Sakthi Polytechnic College

Interested students can submit their A3 Size colour poster on 18.03.2026.

DATE MARCH 23, 2026
TIME AT 2.30 PM
VENUE MEETING HALL, SPC

ORGANISED BY:
Mr.V.Velu Coordinator/ IEIPSC
Mr.V.Manimuthu Advisor/ IEIPSC
&
SPC-IEI STUDENT CHAPTER COMMITTEE MEMBERS



The IEI Student Chapter proudly celebrated World Water Day with great enthusiasm and active participation from its student members. The event aimed to raise awareness about the importance of water conservation and sustainable management of this vital resource. As part of the celebration, a Poster Competition on the theme “The Water,” encouraging students to creatively express their ideas and concerns about water-related issues. The competition witnessed enthusiastic participation from student members, who presented innovative and thought-

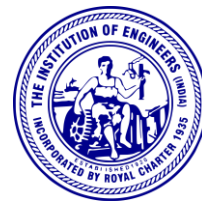


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provoking posters. The artworks highlighted various aspects such as water scarcity, conservation techniques, pollution, and the need for responsible usage. Through their creativity, students effectively conveyed powerful messages about protecting water resources for future generations. The event not only provided a platform for students to showcase their artistic talents but also helped in deepening their understanding of global water challenges. Faculty members and judges appreciated the efforts and originality displayed by the participants. Winners were recognized and awarded for their outstanding contributions. Overall, the World Water Day celebration by the IEI Student Chapter was a meaningful and impactful event. It successfully promoted awareness, inspired creativity, and encouraged students to take responsibility for conserving water. Such initiatives play a crucial role in shaping environmentally conscious individuals and fostering a sense of social responsibility among the youth.

The Institution of Engineers (India) – Students’ Chapter Committee Meeting on 27.03.2026

The Committee Meeting of The Institution of Engineers (India) – Students’ Chapter was successfully held on 27th March 2026 at our institution. The meeting was presided over by the Director, Principal, Advisor, Local Chapter official, along with the Coordinator, and various Committee Members.



The session began with a warm welcome address by the Convener, who highlighted the significance of collective participation in the growth of the Chapter. The Advisor shared valuable insights and guidance on enhancing the professional activities and visibility of the Student Chapter within the campus and beyond.

The main agenda of the meeting included discussions on:

- Strengthening the Chapter through enhanced student engagement and professional development initiatives for the upcoming academic year 2026-27.
- Increasing new member enrollment by creating awareness about the benefits and opportunities offered by the Institution of Engineers (India) for first year students.

Committee members shared their suggestions and ideas to make the Chapter more vibrant and impactful. The meeting concluded with a note of appreciation to all members for their continued support and enthusiasm.