Inside

From the Chairman's Desk........

Prof (Dr) Chandrashekara S N, FIE
Chairman,
All India Students' Committee (AISC)

The Energy Conservation Day is celebrated on December 14 every year, in order to spread the message on the importance of conserving energy and to drive mass awareness about the importance of energy efficiency and conservation. The Bureau of Energy Efficiency (BEE), under Ministry of Power organizes the celebrations every year.

The day is connected to the launch of the National Energy Conservation Act in 2001 by the Government of India. The primary objective of this act was to promote the efficient use of energy resources and the conservation of energy. This was followed by establishment of the Bureau of Energy Efficiency (BEE) in 2002 as a statutory body under the Ministry of Power, Government of India.

The day is celebrated for arousing a sense of responsibility for power conservation among Indian citizens, industrial organizations, etc. As the world is experiencing severe climate change and depleting natural resources, the conservation of energy becomes an important factor for sustainable development. Use of energy-efficient appliances and energy-saving technologies can collectively contribute to reduced energy consumption. At this juncture, it is essential for the people to understand the adverse effects of uncontrolled energy consumption and to adopt energy-efficient practices in their daily lives. This can be achieved through frequent and rigorous campaigns, workshops and educational programs. The day also provides a platform for policymakers to discuss and make strategies to promote energy efficiency and sustainability among common people and the industrial organizations. The day promotes collaboration and knowledge exchange of various practices and technological innovations with other nations. In a nutshell, National Energy Conservation Day stands as a flagbearer to the commitment of the Indian government and its citizens towards building a sustainable and energy-efficient future.

The Institution of Engineers (India) celebrates this day across India through its various Centres. As a Chairman, I on behalf of AISC request all Students' Chapters to organize the technical activities on energy conservation and successfully celebrate this event.

News of Technical Activities from Engineering College Students' Chapter

EASTERN ZONE

Academy of Technology, Kolkata (West Bengal)

The IEI Students' Chapter, Computer Science and Business Systems department organized an event named "UXOPIA" on the theme "Design Unleashed: A Tale of Success and Creativity" on 02 April 2024.

Glimpse of the event

Budge Budge Institute of Technology, Kolkata (West Bengal)

The IEI Students' Chapter, Department of Electrical Engineering of Budge Budge Institute of Technology, Kolkata, organized a Seminar on "Introduction to Generalized Theory of Electrical Machines and Its Applications" on 14 May 2024. Representatives of The Institution of Engineers (India), HQs were present in the event. Maj Gen (Dr) Mohan Jeet Singh Syali, Secretary and Director General, IEI graced the occasion as the Chief Guest.

Lighting of the lamp ceremony of the event

The IEI Students' Chapter organized an Industrial Visit in Budge Budge Generating Station (CESC) on 15 May 2024.

Participants in the Industrial Visit

Institute of Engineering & Management, Kolkata (West Bengal)

The IEI Students' Chapter, Department of Electrical Engineering of Institute of Engineering & Management, Kolkata, organized a project demonstration competition **"SIMULCRUM"** on **10 April 2024.**

Glimpse of the event

The IEI Students' Chapter organized a project demonstration competition **"POSTERNOVA"** on **10 April 2024.**

Glimpse of the event

RCC Institute of Information Technology, Kolkata (West Bengal)

The IEI Students' Chapter, Electronics and Communication Engineering Department organized a prototype design competition on 27 June 2024.

Glimpse of the event

They also organized two One-day seminars was organized on 'Digital Watermarking' on 24 June 2024 and on 'Cyber Security' on 25 June 2024.

Glimpses of the event

The Assam Kaziranga University (Assam)

The IEI Students' Chapter Department of Civil Engineering released a Wall Magazine on the theme **"MILESTONE"** on **08 May 2024**.

Launch of Magazine

The IEI Students' Chapter hosted a poster presentation competition on 17 May, 2024.

Glimpse of the event

SOUTHERN ZONE

K. Ramakrishnan College of Engineering, Trichy (Tamil Nadu)

The IEI Students Chapter of Electronics and Communication Engineering,-(ECE) Branch was inaugurated at K. Ramakrishnan College of Engineering, Trichy, Tamil Nadu, on 25 May 2024.

Inauguration of Student Chapter

The IEI Students Chapter of Department of Information Technology was inaugurated at K. Ramakrishnan College of Engineering, Trichy, Tamil Nadu, on 03 June 2024.

Inauguration of Student Chapter

Marian Engineering College, Trivandrum, (Kerala)

The IEI Student Chapter organized a Technical Quiz on 10 April 2023.

Glimpse of the event

The Student Chapter organized a lecture on the theme "Navigating Excellence: Empowering Future Civil Engineers with Career Insights and Essential Skills"on 19 April 2023.

Glimpse of the event

They also organized a Pre-College Outreach Program on 26 April 2023.The program was inaugurated by Sri Vinod Vaisakhi, Registrar of the Malayalam Mission, Government of Kerala.

Flyer of the event

The IEI Student Chapter organized a Technical Workshop on " Towering Tension" and "BIM Master" program on 27 April 2023 and a lecture on "Technical Aptitude Test" on 05 May 2023.

Flyer of the event

News of Technical Activities from Engineering College Students' Chapter

The IEI Student Chapter organized a Technical Poster Competition on 16 May 2023, a technical visit to Thangassery Harbor in Kollam on 02 June 2023 and a Workshop titled "A Short Walk through the Construction Industry" on 10 June 2023.

The IEI Student Chapter organized technical talks on "Modern Construction Materials and Techniques in Civil Engineering" and "Geopolymer Concrete for Sustainable Structures" on 29 September 2023. The event concluded with an engaging talk on "Innovations in Construction".

Glimpses of the event

The IEI Student Chapter organized a lecture titled "An Overview of DPR Preparation for Infrastructure Projects" and "Coastal Erosion, Control Measures, and Geotechnical Aspects" on 11 October 2023 and a field visit to the ongoing construction of the Steel Flyover Bridge near Chirayinkeezhu Railway Station, Kerala.

The IEI Student Chapter organized a field visit to the Water Treatment Plant operated by the Kerala Water Authority (KWA) at Aruvikkaraon 08 November 2023.

Glimpses of the event

The IEI Student Chapter showcased their projects at Project Science Exhibition on 10 November 2023 organized by the Oxford International School Trivandrum. They also hosted Marian Edu Expo-23 from 28 November-30 November 2023.

Interactive Session with students

The IEI Student Chapter organized an online lecture titled "Major Environmental Statutes and How They Are Implemented" on 02 December 2023.

Glimpses of the event

News of Technical Activities from Engineering College Students' Chapter

The IEI Student Chapter organized a technical talk on "Rational and Empirical Approach on Morality and Ethics" on 13 October 2023 and on" Advancements in Construction Technology" on 15 December 2023 on virtual platform.

Screen-shot of the event

The IEI Student Chapter participated in Green Campus Campaign on 16 November 2023 and also organized a Cleaning drive as part of Green campus Initiative on 13 December 2023.

Glimpse of the event

The IEI Student Chapter in collaboration with the NSS unit, celebrated National Energy Conservation Day on 14 December 2023. The IEI Student Chapter organized a technical visit to the Kerala Assembly and the International Book Fair on 12 January 2024. The Student Chapter showcased their projects at the Green Field International Stadium in Trivandrum, as part of the International Sports Summit Kerala 2024 during 23 January -26 January 2024.

The IEI Student Chapter organized a technical session titled "Blueprints to Success: Unveiling Thriving Paths in Civil Engineering Careers" on 25 January 2024.

Glimpse of the event

The IEI Student Chapter organized a five-day short-term course on "3D BIM using REVIT" from 29 January -02 February 2024. They showcased their project titled "Eco Smart Living: Revolutionizing Homes with Energy-Saving Models: at Tagore Theatre, Trivandrum from 07 February to 09 February 2024. The Green Campus Certification Ceremony was held on 15 February 2024. The Student Chapter organized a lecture titled "Engineering Solutions for a Sustainable World" and also celebrated "World Engineering Day" on 04 March 2024. They also technical talk on "Cyber Security Awareness" on 07 March 2024.

News of Technical Activities from Engineering College Students' Chapter

Glimpse of the event

The Student Chapter in association with Kerala State Excise Department and Malayalam Mission Kerala organized "Drug Awareness Program- Punarjani 2024" on 22 March 2024.

Narasaraopeta Engineering College (Autonomous), Guntur (Andhra Pradesh)

The IEI Students' Chapter, Department of Mechanical Engineering of Narasaraopeta Engineering College organized Fourth International Virtual Conference 'NEC-ICETMEIA-2K24' on 'Emerging Trends in Mechanical Engineering and Industrial Automation' during 19-20 April 2024.

Screenshot of the conference

The IEI Students' Chapter also organized a One day Workshop on "Design Thinking and Innovation" on 19 June 2024.

Screenshot of the event

Ramco Institute of Technology, Rajapalayam (Tamil Nadu)

The IEI Students' Chapter, Department of Electronics & Communication Engineering of Ramco Institute of Technology, Rajapalayam organized Technical Group Discussion on 04 April 2024.

Glimpse of the event

The IEI Students' Chapter also organized a poster-making competition on the theme " The Future of Internet of Things (IoT) in Smart Cities" on 13 April 2024and an Aptitude test on 15 April 2024.

Glimpse of the event

The IEI Students' Chapter, Department of Computer Science &Engineering organized a Seminar on "Idea Vista" on 09 May 2024.

Glimpse of the event

News of Technical Activities from Engineering College Students' Chapter

The IEI Students' Chapter also organized a Poster Design event on the theme "Evolution Technology" on 16 May 2024.

Glimpse of the event

The IEI Students' Chapter, Department of Mechanical Engineering organized a short term course on "PLC and its Applications" during 23-25 May,2024.

Glimpse of the event

The IEI Students' Chapter, Department of Information Technology organized an event on "Identicalness" during 30 May,2024.

Glimpse of the event

They organized the event "Knowledge Sharing Session on GIT and GITHUB" (Technical) on 07 June 2024.

Glimpse of the event

The Students' Chapter also organized a Paper Presentation Event on 22 June 2024.

Student Participation in the Paper Presentation

The IEI Students' Chapter, Department of Computer Science and Engineering organized an event on "Aptitude Quiz event" during 14 June, 2024.

View of the Student Participants

They organized the event "Grouped Debate" on 20 June 2024.

View of the Student Participation in Debate Contest

The IEI Students' Chapter, Department of Electrical and Electronics Engineering organized Workshops on "MATLAB for Electrical Engineering Application" on 21 June 2024; on 'AI & ML' on 21 June 2024 and 'Mini Project Presentation Event' on 21 June 2024.

Glimpse of the event

Glimpse of the event

Saintgits College of Engineering ,Kottayam (Kerala)

The IEI Students' Chapter, Department of Electrical and Electronics Engineering of Saintgits College of Engineering, Kottayam organized a lecture competition on "Emerging Technologies in High Voltage Gas Insulated Switchgear-Clean Air GIS and NCIT" and 'Multi Agent System in Smartgrid' on 15 February 2024.

Glimpse of the event

The Students' Chapter also organized a project exhibition competition "Integrated refrigerant gas leakage detection and automatic gas refilling system for condensers in air conditioners and refrigerators" on 21 May 2024.

Glimpse of the event

A project presentation event was organized by the Students' Chapter of Department of Food Technology on the topic "Development of Fish Decaying Equipment for Medium-sized Fishes" and "Megeff: An Effervescent Ready to Mix Utilizing Nutmeg Pericarp-Formulation, Optimization and Analysis" on 07 May 2024.

Glimpse of the event

Sethu Institute Of Technology, Maduria (Tamil Nadu)

The IEI Student Chapter, Department of Mechanical Engineering organized a Seminar on "Geometric Dimensioning and Tolerancing" on 25 June 2024.

Speaker delivering Lecture

Teegala Krishna Reddy Engineering College, Hyderabad (Telangana)

The IEI Student Chapter of Electrical and Electronics Engineering Department organized a five Day workshop on "MATLAB Tools for Power Electronics Applications" during 18 – 22 June, 2024

Glimpse of the event

WESTERN ZONE

Birla Vishwakarma Mahavidyalaya, Vallabh Vidyanagar (Gujarat)

The IEI Students' Chapter, Department of Civil Engineering of Birla Vishwakarma Mahavidyalaya visited the "Ten BKC High-rise Building" and also a Technical Tour on Jain Temple on 17 February, 2024.

MGM's College of Engineering, Nanded (Maharashtra)

The IEI Students' Chapter, Department of Civil Engineering of MGM's College of Engineering organized a Traffic Awareness Programme on 13 January 2024. They organized a Technical visit to Manar Earthen Dam at Barul and Kandhar Fort on 17 February 2024.

Participants during the technical visit

They conducted an expert lecture on "Advancement and Opportunities in Civil Engineering" on 16 April 2024 and a "Workshop on Concrete Mix Design as per IS code" on 22 May 2024. A Seed Ball activity was also organized on 23 May 2024.

View of the dias during the event

Thakur College of Engineering and Technology, Mumbai (Maharashtra)

The IEI Students' Chapter organized successful membership drive aimed at enlightening students about the benefits and opportunities of IEI membership on 05 July 2024.

Membership Drive

Zeal College of Engineering and Research NARHE, Pune (Maharashtra)

The IEI Students' Chapter, Department of Electrical Engineering of Zeal College of Engineering & Research NARHE organized an expert lecture on topic "Guiding students for Overseas Education" on 05 April 2024.

Glimpse of the event

Southern Zone

Government Polytechnic, Belgaum (Karnataka)

The IEI Student Chapter Government Polytechnic, Belgaum organized the following Seminars on (i)Fundamentals of 3D Printing" on 05 June 2023 (ii)"Advanced of 3D Printing" on 09 June 2023, (iii) "Tally and Procedure under Income Tax Act" on 24 June 2023; iv)"Importance of internship in career development" on 30 June 2023, v)'Time and Stress Management" on 06 July 2023, vi) "Human Health, Community Health and personal Hygiene and "Career Opportunities and Personality Development" on 10 July 2023, vii) "Awareness program for students for registration for KSDC-Skill Connect Portal" on 24 July 2023, viii)"Industry 4.0" on 25 August 2023, ix)"Career Counseling by ICAI" in two sessions on 08 September 2023, x) "Industrial Networking Architecture" on 09 September 2023, xi)"Industrial Networking Devices", xii) "Human Machine Interface to control MOTOR Operation" on 27 September 2023, xiii) "SCADA" and "Design Thinking" on 07 October 2023, xiv) "Iron and Iron Carbon Diagram" on 13 October 2023, xv) Designation of Steels and Alloys" on 19 October 2023, xvi) "IIOT" on 17 October 2023, xvii) "Role of Youth in Nation Building" on 19 October 2023; xviii) "Basics of pneumatic Systems" on 26 October 2023; xix) "Consultancy services- Pavement Material Testing" on 10 October 2023, xx)"Road Safety" on 17 November 2023, xxi) " Cultural Diversity in India" on 21 November 2023 , xxii) "Road Safety Audit" and "Environmental Impact Assessment" on 23 November 2023, xxiii) "Electric and Hybrid Vehicle Technology" on 25 November 2023, xxiv) "Digital Project Management" on 22 February 2024, xxv) "Printed Circuit Board Design" on 21 March 2024 and xxvi) "Total Quality Management" on 28 March 2024.

Speaker and Participants during the event

The Student Chapter also organized Campus Recruitment Drive on 15 June 2023 ; 19 June 2023 and 26 September 2023, 21 February 2024 and 13 March 2024.

Glimpse of the event

The Student Chapter of IEI arranged Industrial Visit to KMF Milk Factory on 04 October 2023, to Belgaum Sugars Pvt. Ltd, Belgavi on 10 November 2023 and to Govt Tool Room and Training Centre on 30 January 2024.

Participants during the Industrial Visit

The Student Chapter of IEI organized Academic Visit to ITI Belagavi to learn on "Robert Welding

camera visuals" on 11 October 2023, ii) "Electric control Panel and its features" on 17 October 2023 and iii) on "Quality control test of highway pavement materials" on 10 October 2023.

The Student Chapter organized a Technical Demonstration on "How to Use Fire Extinguisher" on 26 October 2023. They also

Trainer and the students during a Workshop

organized a seminar on "Fire Safety and Prevention" on the same day.

The Student Chapter organized a Demonstration on "IOT Trouble Shooting and

Glimpses of the demonstration

Security Attacks" and a seminar on "Advanced pneumatic systems" on 06 November 2023.

The Student Chapter of IEI organized a

Glimpses of the demonstration

programme on "DCET Toppers Felicitation" on 18 November 2023.

View of the dais during the event

Report of Technical Activities by Students' Chapter

Please forward report of the technical activities conducted under the Students' Chapters of both Engineering Colleges and Polytechnics through email only to membership@ieindia.org within one week of the hosting of the event. The format of the report can be accessed from the link: https://www.ieindia.org/webui/IEI-Network.aspx#students-chapters

Please provide the photographs of the event with clarity

Membership for undergraduate B Tech Students: Student Membership (SMIE)

The Council at its 689th meeting held at Ahmedabad approved a new grade of membership - Student Membership (SMIE) - meant for undergraduate students pursuing BE/B.Tech (AICTE approved) or equivalent qualification and will be valid for six years w.e.f. the date of enrolment. For further details, please visit our website www.ieindia.org.In case of any further query regarding Student Membership please contact (033)40106251/ (033)40106302.

Online Submission of Corporate Membership Application of The Institution of Engineers (India)

The Interested Engineers are requested to submit their membership application through for early processing.

Please visit the link: https://www.ieindia.org/webui/IEI-Registration.aspx

for further details and submission of application

For any assistance mail to: memb_disc@ieindia.org

Steps to establish IEI Students' Chapters in
Engineering Colleges/ Polytechnics

Engineering Colleges/ Polytechnics may establish Students' Chapter of IEI with at least fifty students pursuing engineering in the same branch of a College/University/Institution and be a part of the IEI fraternity following steps below:

- Initial request from an engineering college/a polytechnic is to be made to the Director (Membership) of IEI expressing desire to open a Students' Chapter at the Engineering College/Polytechnic mentioning the branches of engineering.

- (i)   In a College/University/Institution, at least **thirty numbers (30)** of students irrespective of the year of study in the same branch of engineering is required for opening a Students' Chapter other than Electronics and Telecommunication Engineering Department and Computer Science Engineering Department.

  (ii)   In a College/University/Institution, at least **fifty numbers (50)** of students is required for Electronics and Telecommunication Engineering Department and Computer Science Engineering Department irrespective of the year of study.

  (iii)   To enable formation of a Chapter in any recognized polytechnic minimum number of member required is **thirty (30)**. There shall be only one Chapter in a polytechnic.

  This strength of membership shall be mandatory for opening as also for continuing a Students Chapter. However, it's requested to motivate all the students to enroll themselves with the Chapter.

- Upon obtaining the permission and code of the new Students' Chapter from IEI, prospective Chapters have to download the forms [for engineering college Students' Members (ECSC) and Polytechnic Students' Member (PSC)] from www.ieindia.org . The forms have to be filled up by the willing students for becoming members of Students' Chapter in consultation with the Adviser.

- The requisite fee to be collected from each student as per the year of study are given below.

(i) For Degree Engineering College:

Membership Fee for Students' Chapter	Subscription (Rs)	Share of Colleges/Institutions (Rs)	Share of HQs (Rs)
First Year	536	300	236 *(Incl. 18% GST)*
Second Year			
Third Year			
Fourth Year			

i) For Polytechnic:

Membership Fee for Students' Chapter	Subscription (Rs)	Share of Colleges/Institutions (Rs)	Share of HQs (Rs)
First Year	536	300	236 *(Incl. 18% GST)*
Second Year			
Third Year			

- The relevant part of the application forms are to be sent to be sent to Headquarters of The Institution of Engineers (India) alongwith the payment.

  For enquiries, contact us at   studentchapter@ieindia.org/director_membership@ieindia.org   or visit www.ieindia.org

Privileges of Student Members attached to Students' Chapters of Engineering College/Polytechnic

- ❖ Opportunity to participate in technical events e.g. Seminar, Symposia, Conventions, Workshops etc. organized by IEI State/Local Centres.

- ❖ Participation in various Technical Activities of the Students' Chapter.

- ❖ Access to library facilities at State/Local Centres of the Institution across the country.

- ❖ Opportunity to meet fellow engineers for professional interaction.

- ❖ After passing the final year B.E/B.Tech examination, members of the Students' Chapter are eligible for the followings:

  - Members of the Students' Chapter of Engineering Colleges may become **Associate Member** of Institution. The membership form can be downloaded and apply online from IEI website www.ieindia.org under **Membership** tab.

  - Associate Members are entitled to receive Chartered Engineer certificate on payment of requisite fee

  - **SMIE** members may become **Associate Member** at a discount in Registration fee, if they applied within 1 year of passing BE/BTech (the details is given in our **AM application form)**.

- ❖ **85 nos** of Scholarships of **Rs 7,15,000/-** given to the engineering meritorious students attached to the different Student chapter.

- ❖ **Dr Amitava Bhattacharyya Memorial Trophy** to be awarded to three **Best Engineering College Students' Chapters** and three **Best Polytechnics students Chapters** are annually awarded the certificate, plaque and **Rs 20,000/-, Rs 15,000/- and Rs 10,000/-** in each category respectively.

- ❖ The National Design and Research Forum (NDRF) – a peripheral body of the Institution – conducts the students' Design Competition every year amongst the student members studying in engineering colleges of the country. Apart from a certificate, the awardees are being given Gold, Silver, and Bronze medals in each engineering discipline. (http://www.ndrf.res.in).

- ❖ The **Students' Chapter Newsletter** is distributed amongst the Chapter members and may be browsed through www.ieindia.org.

- ❖ The Students' Chapters may participate in **Regional Conclave** to be organized in the emerging field of engineering by engineering college and polytechnic region wise.