Volume 7 Issue 5

IEI Newsletter
Students' Chapters

October 2025

Inside

Chairman's Message	2
News of Technical Activities from Engineering College Students' Chapter	3
News of Technical Activities from Polytechnic College Students' Chapter	9
Report of Technical Activities by Students' Chapter	11
Membership for undergraduate B Tech Students: Student Membership (SMIE)	11
Online Submission of Corporate Membership	11
Steps to establish IEI Students' Chapters in Engineering Colleges/Polytechnics	12
Privileges of Student Members attached to Students' Chapters of Engineering College/Polytechnic	13

ALL INDIA STUDENTS' COMMITTEE (AISC)
Session 2024-25

Prof (Dr) Chandrashekara S N, *Chairman*

Members

Dr Dharmendra Kumar Jain
Prof G Madhu
Dr G Venkata Subbaiah
Dr S Thirougnaname
Prof Sudhansu Sekhar Dash
Prof P Udhaya Kumar
Prof (Dr) S Kannan
Mr Vilas Karbhari Patil
Dr Rahul Kanti Nath
Mr R Murugaboopathy
Mr Ajit Narendra Gedam

EX-Officio Member

Secretary & Director General, IEI

Editor
Maj Gen (Dr) MJS Syali, VSM (Retd)

Technical Editor
Dr Surojit Ghosh

Assistant Technical Editor
Dr Shubhasree Biswas Sett

Editorial Assistant
Mr Suman Bagchi
Ms Sucharita Ghosh

The Institution of Engineers (India) as a body accepts no responsibility for statement made by individual authors

Membership Department
The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700 020
Tel : (033) 4010 6224 / 251
e-mail : studentchapter@ieindia.org
dd.membership@ieindia.org
web : www.ieindia.org

From the Chairman's Desk.....



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

Sustainable Development Goal (SDG) 6 aims to ensure the availability and sustainable management of water and sanitation for everyone, everywhere. Clean water and sanitation are fundamental human rights and essential for the well-being of people and the health of the planet. However, billions of people worldwide still lack access to safe water and basic sanitation, and the pressure on water resources is growing due to population increases, urbanization, climate change, and pollution.

The key focus of SDG is ensuring that all people, regardless of location, have access to clean drinking water, sanitation, and hygiene facilities. It also emphasizes on prevention of pollution from industrial, agricultural, and domestic sources and protecting the quality of freshwater resources and promotion of sustainable use of water resources, reducing waste, and improving water management in agriculture, industry, and communities. The water resources should be managed in a way that balances the needs of people, agriculture, industry, and ecosystems. Freshwater ecosystems, such as rivers, lakes, and wetlands are to be protected and restored to maintain the natural water cycle.

Engineers play a critical role in achieving SDG 6 by designing, developing, and implementing the technologies and infrastructure needed for sustainable water and sanitation management. Their expertise in systems design, construction, environmental science, and data analysis is essential for tackling the complex challenges of water scarcity, water pollution, and inefficient water use. Engineers also design and operate water treatment plants that purify water to make it safe for drinking and industrial use. They develop systems for sewage treatment that prevent pollution and protect public health. Civil and environmental engineers design and maintain water supply systems, including pipelines, pumping stations, and storage reservoirs, to ensure that water is distributed efficiently and reliably to communities. They develop solutions to reduce water waste, such as rainwater harvesting, drip irrigation, and greywater recycling. Environmental engineers design systems to control and treat pollution from industrial, agricultural, and residential sources. Engineers are increasingly focusing on sustainable infrastructure, using materials and technologies that reduce environmental impact including designing green buildings, sustainable water storage solutions, and systems that promote the reuse of water. They assess the impacts of climate change on water resources and help design infrastructure that can withstand extreme weather events such as floods and droughts. Last but not the least, engineers play a key role in the development of data collection and monitoring systems that track water quality, usage, and availability. They use sensor networks, remote sensing technologies, and data analytics to optimize water management.

Achieving SDG 6 requires the collective effort of governments, communities, and professionals across many fields, but engineers are especially vital to its success. Their role in designing, building, and maintaining the infrastructure and technologies that deliver clean water and sanitation is crucial to overcoming the challenges of water access and management. By combining innovation, sustainability, and technical expertise, engineers can help ensure that water resources are available for future generations while improving health and livelihoods today.

Therefore, on behalf of AISC I would like to kindly request that all Students' Chapters organize technical activities focusing on the crucial areas of water availability and sustainable sanitation management. These activities aim to raise awareness among upcoming engineers about the challenges faced in sustaining water resources and ensuring effective sanitation solutions.

News of Technical Activities from Engineering College Students' Chapter

Western Zone

Amrutvahini College of Engineering, Sangamner (Maharashtra)

The IEI Student Chapter Department of Automation and Robotics Engineering organized Orientation Workshop on 'Automation and Robotics' on 01 August 2025, An orientation webinar on the 'GATE 2026 Examination' on 03 October 2025, A value-added course on '3D Printing' on 12 September 2025 to 05 December 2025, 3 Days Workshop on 'Industrial Robot' during 02 September -04 September 2025.





Glimpses of the event

Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar (Gujarat)

The IEI Students' Chapter of Department of Civil Engineering organized Technical Site visit to GIFT City, Gandhinagar on 01 October 2025 and organized an event on 'Technological Advancement in Renewable Energy' on 15 September 2025.



Glimpses of the event

Dr. D. Y. Patil Institute of Technology, Pimpri (Maharashtra)

The IEI Student Chapter Department of Electronics & Telecommunication organized a visit at Spandan Bal Ashram and Tree Plantation at Mahalunge Baner Hills on 26 August 2025. They organized an Expert Talk on “The Future of R&D in a Global World” on 28 August 2025, Project Demonstration on 30 August 2025, a technical visit at "COTMAC Electronics Pvt. Ltd." on 2 September 2025, Expert talk on 'Multidisciplinary Project Development' on 07 August 2025, The Department of Electronics & Telecommunication Engineering organized the Installation Ceremony of the IEI Student Chapter along with the celebration of Engineers' Day on 15 September 2025, Expert Talk on “Urban water Utilization” on 11 September 2025, Expert Talk on “Computer Networks & Malware Analysis” on 13 September 2025, Webinar on “Research Proposal Submission to PMC and PCMC”, FE Induction Program on “An Overview of Clubs, Labs and Opportunities for First Year Engineering” on 17 September 2025, Technical Visit to Linked loopTechnologies, Narhe on 20 September 2025, Skill Development Workshop on “Embedded System: STM32 RTOS & Cyber Security” on 11,14 and 20 September 2025, 'MSME Entrepreneurship Awareness Program' on 16 September 2025, Technical Quiz Competition on 'Mind Sparks 2025: The Tech E Quiz Challenge' on 01 October 2025, Technical Coding Competition on 'Code Cracker: Battle of Logic and Programming Skills' on 03 October 2025, Online Activity on 'Capture Yourself' on 04 October 2025,Workshop on 'Java Programming' during 06 October -11 October 2025, Industrial Visit for students to Nichrome India Ltd on 08 October 2025,Industrial Visit to Jawak Microcircuit Pvt Ltd on 11 October 2025, 'IEI Awards Ceremony :Honoring Excellence –Prize Distribution Ceremony' on 13 October 2025.



News of Technical Activities from Engineering College Students' Chapter





Glimpses of the event

P. R. Pote Patil College of Engineering and Management, Amravati (Maharashtra)

The IEI Students' Chapter of Department of Electronics & Telecommunication Engineering organized an Industrial Sponsored Manual Testing Program from 04 - 08 August 2025, “Online Technical Test: Tech Prep for AMCAT” on 17 September 2025 , Seminar Presentation on 9 September 2025, Project Competition on ,27 September 2025, 'Smart Industry: PLC Automation Workshop' during 25 -27 September 2025.

The IEI Student Chapter of Computer Science & Engineering in collaboration with the IEI Student Chapter of Electronics & Telecommunication Engineering organized an Expert Lecture on 'Copyright Filing' on 26 August 2025.





Glimpses of the event

Padre Conceição College of Engineering, Verna (Goa)

The IEI Students' Chapter of Department of Mechanical Engineering organized Installation Ceremony on 07 October 2025.



Glimpses of the event

Sagar Institute of Science and Technology, Gandhinagar (Madhya Pradesh)

The IEI Students' Chapter Department of Civil Engineering was inaugurated on 16 September 2025.



Glimpses of the event

Shah & Anchor Kutchhi Engineering College, Mumbai (Maharashtra)

The IEI Student Chapter Department of Electronics & Computer Science and the Department of Computer Engineering organized an online Workshop on “Quantum Computing Basics: From Fundamentals to Applications” on 08 August 2025, Industry Expert Session on 'Linux – Skill-Based Lab' on 24 September 2025, internship program on "Data Science with Power BI" during 16 - 26 June, 2025, Quantum Awareness Seminar on 19 July 2025, workshop on 'Build on SUI Blockchain with MOVE Programming' during 24–25 July 2025.



News of Technical Activities from Engineering College Students' Chapter



Glimpses of the event

Thakur College of Engineering and Technology, Mumbai (Maharashtra)

The IEI Students' Chapter of Department of IoT organized Smart India Hackathon Competition on 16 Sept 2025, Technical Fest 'ZEPHYR 2025' during 25-27 September 2025.





Glimpses of the event

Southern Zone

Anurag University, Hyderabad (Telangana)

The IEI Students' Chapter of Department of Mechanical Engineering organized an event “Inspiring Minds: Mechanical Innovators” on 17 September 2025 on the occasion of Engineer's Day.



View of the speaker and the participants

B. N. M. Institute of Technology, Bangalore (Karnataka)

The IEI Students' Chapter of Department of CSE organized a Skills Development Programme on the topic "Level-up Your Software Career: Coding, Testing, and Leet Code Interview Preparation” on 29 August, 2025.



View of the speaker and the participants

GATES Institute of Technology Autonomous, Gooty (Andhra Pradesh)

The IEI Students' Chapter of Department of Computer Science and Engineering organized 'Kalakrithi-Make in GATES : An Art and Craft Expo' on 24 September 2025 and a Blind Coding Contest on 26 July 2025.





Glimpses of the event

News of Technical Activities from Engineering College Students' Chapter

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

The IEI Students' Chapter of Department of Electronics and Communication Engineering organized a Audio Video AV Presentation competition on the theme “World Beyond Earth” for celebrating World Space Day on 25 August 2025.





Glimpses of the event

MAM College of Engineering and Technology, Tiruchirappalli (Tamil Nadu)

The IEI Students' Chapter of Department of Electrical and Electronics Engineering organized a Hands-on training on “Innovative Electronics” on 09 August 2025 , a Seminar on “AMP up Your Career- Career Guidance to Electrical Engineers' on 13 August 2025, and a Project Expo on the theme “IDEA FEST 2.0” on 17 September 2025.





Glimpses of the event

Matrusri Engineering College, Hyderabad (Telengana)

The IEI Students' Chapter of Department of Computer Science and Engineering organized technical events namely 'Udbhav 2025' during 08- 09 October 2025, 'HACKSPREE 2025' on 20 August 2025, 'QuizWhiz 2025' on 20 September 2025.





Glimpses of the event

MES Institute of Technology and Management, Chathannoor (Kerala)

The IEI Students' Chapter of Department of Civil Engineering celebrated World Standards Day 2025 on 14 October 2025 with a technical talk on “Standardization and Its Importance – A Walkthrough”.



View of the speaker

News of Technical Activities from Engineering College Students' Chapter

Mohan Babu University, Tirupati (Andhra Pradesh)

The IEI Students' Chapter Department of Electronics and Communication Engineering organized an Innovation Talk on “Dream. Dare. Disrupt: The Entrepreneurial Engineer's Journey” on 15 September 2025, a One-Day Technical Talk on 'Your Idea to Your Board: Exploring the Power of KiCad” organized on 27 October 2025.





View of the speakers and the participants

Musaliar College of Engineering & Technology, Pathanamthitta (Kerala)

The IEI Students' Chapter of Department of Civil Engineering celebrated Engineer's Day during 10 - 12 September 2025 with a technical talk on various technical topics.

Raghu Engineering College, Visakhapatnam (Andhra Pradesh)

The IEI Student Chapter Department of Civil Engineering celebrated “Engineers' Day 2025” on 15 September 2025 with a keynote address by Er M. Venkata Ramana, Executive Engineer, Water Resources Department, Andhra Pradesh.

Ramco Institute of Technology, Rajapalayam (Tamil Nadu)

The IEI Students' Chapter of Department of Electrical and Electronics Engineering organized a technical event titled “Electro Clue” on 21 August 2025, Guest Lecture on “Modeling of Thermal Energy Storage Systems, Guest Lecture on “Integration of Electric Vehicles into Smart Grids: Opportunities and Challenges” on 10 October 2025 and Technical quiz on “Circuit Analysis” on 15 October 2025.





Glimpses of the event

The IEI Students' Chapter of Department of Computer Science Engineering organized an Industry Lecture on “Cloud Data Protection" on 27 September 2025.

The Department of Information Technology organized a Guest Lecture on "From Theory to Practice: Real - Time Applications of DSA" held on 04 October 2025.



Glimpses of the event

News of Technical Activities from Engineering College Students' Chapter

Saintgits College of Engineering, Kottayam (Kerala)

The IEI Students' Chapter of organized an Scientific Outreach Program and Expert Lecture on the topic “An Interaction with Plasma” during 15 - 19 September 2025.





Glimpses of the event

Pragati Engineering College, Surampalem (Andhra Pradesh)

The IEI Students' Chapter of Department of Mechanical Engineering organized a Poster Presentation on “Role Of Engineers In Achieving Sustainable Development Goals” on 15 September 2025.



Glimpses of the event

Eastern Zone

Institute of Engineering & Management, Kolkata (West Bengal)

The IEI Students' Chapter of Department of Electrical Engineering and Department of Electrical & Electronics Engineering organized the '5th International Conference on Innovation in Energy Management and Renewable Resources (IEMRE 2025)' on 12 September 2025.





Glimpses of the event

Ramkrishna Mahato Government Engineering College, Purulia (West Bengal) The IEI Students' Chapter of Department of Electronics and Communication Engineering organized a Project Exhibition on 28 August 2025. The Reopening Ceremony of the IEI Students' Chapter was also held on 28 August 2025. An Educational Visit was organized on 15 September 2025 to the District Science Centre, Purulia.





Glimpses of the participants

News of Technical Activities from Polytechnic College Students' Chapter

Govt Polytechnic College Siddapur (Karnataka)

The IEI Student Chapter celebrated the 164th Birthday of Sir M Visvesvaraya on 15 September 2025 and organized a presentation on 'Deep Tech-Engineering Excellence: Driving India's Techade'.



Glimpses of the event

P.A.C. Ramasamy Raja Polytechnic College, Rajapalayam

The Students Chapter of P.A.C. Ramasamy Raja Polytechnic College organised seminars on “Shaping the Self: The Journey of Character Building” on 30 July 2025, 'Seminar Series on “AI Technology” on 14 August 2025, E-Vehicle Technology, AI Code Generator, Cyber Security, Virtual Reality” on 14 August 2025, “SF6 Circuit Breaker” on 07 July 2025, “Oil Circuit Breaker” on 10 July 2025, “Air Blast Circuit Breaker” on 14 July 2025, “Different Applications of Motors” on 18 July 2025, “Electric Traction Methodologies” on 22 July 2025,, “PLC Simulation Software” on 05 August 2025,, “Fluorescent & Incandescent Lamp” on 25 August 2025, “Optical Transmitter” on 14 July 2025, “Optical Fiber” on 15 July 2025, “Combinational Logic Circuit” on 16 July 2025, “KV Mapping” on 17 July 2025, “Sequencing Circuit, Cascade Method and Pneumatic & Hydraulic Circuits” on 18 July 2025, “Comber Machine” on 18 June 2025, “Jacquard Machine and Fashion Designing” on 09 July 2025. They also organised Guest Lectures on “Manufacturing Environment of Calcium Silicate Boards” on 09 July 2025, “Route Mapping for Solid Waste Collection in Rajapalayam Municipality” on 29 July 2025, “Shaping the Self: The Journey of Character Building” on 30 July 2025, “Industrial Expectations” on 30 July 2025, “Technical Topics in EEE” on 22 September 2025, “Python Unleashed” on 01 August 2025, “Test Method and Result Analysis of Latest Fibre Testing (AFIS & HVI)” on 25 July 2025, “Process Control Studies in Blow Room & Carding” on 01 August 2025, “Process Control Studies in Spinning & Winding” on 08 August 2025, “Quality Checking Procedures” on 22 August 2025, “Machinery Audit in Departments” on 29 August 2025, and “U% Spectrogram Analysis” on 04 September 2025. They also arranged Workshops on “Recent Advancement in Mechanical Engineering (RAME)” during 03–04 September 2025 and “Mobile Communication and Raspberry Pi” during 08–09 September 2025. The Chapter conducted a 'Hands-on Training: Preparation of Notice Board using Waste Materials' on 03 September 2025. They also oranised Project Demonstration on “Survey – Smart Solutions for a Sustainable Tomorrow” on 11 September 2025, “Casting and Testing of Concrete Cube – Smart Solutions for a Sustainable Tomorrow” on 12 September 2025 and “Smart Solutions for a Sustainable Tomorrow” on 12 September 2025. A Paper Presentation was organised “Smart Solutions for a Sustainable Tomorrow” on 10 September 2025. They arranged Technical Visits to Ramco Industries Limited, Arakkonam on 17 July 2025, Sewage Treatment Plant, Rajapalayamon 05 August 2025, and Construction Site of Toilet Blocks in Hostel Building on 19 August 2025. They conducted Technical Quizzes on “Manufacturing Quiz” on 01 September 2025, “Mech Quiz” on 11 September



2025,"IoT in Smart Homes" on 09 September 2025, "Basics of Electric Circuits" on 15 September 2025, "Color Coding of Resistor" on 17 July 2025, "Code Debugging" on 04 September 2025, "Smart Textile for a Better World" on 04 September 2025 and on 12 September 2025, Model Competition on "Design. Build. Inspire" on 12 September 2025 and Poster Presentation on "Electric Car Technology & Electrical Applications" on 25 August 2025.







Glimpses of the event

Rajagopal Polytechnic College Gudiyattam (Tamil Nadu)

The IEI Student Chapter organized celebration of 58th Engineers Day on 15 September 2025.



View of the dias

Sakthi Polytechnic College, Sakthinagar (Tamil Nadu)

The IEI Students' Chapter organized "Engineers' Day 2025" on 15 September 2025 on the theme "Basic Engineering Measurement for Emerging Engineers". A Workshop on "Applications of Drones in the Engineering Field" was organized on 19 September 2025. A Technical Visit on the theme "The Smart Water Revolution: Turning Sewage into a Valuable Resource" was organized on 09 October 2025 at the Sewage Water Treatment Plant, Kongu Engineering College, Perundurai.





Glimpses of the events

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 studentchapter@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 **ONLINE** 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: membership@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 Deputy 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 **fifty (50)**. 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:

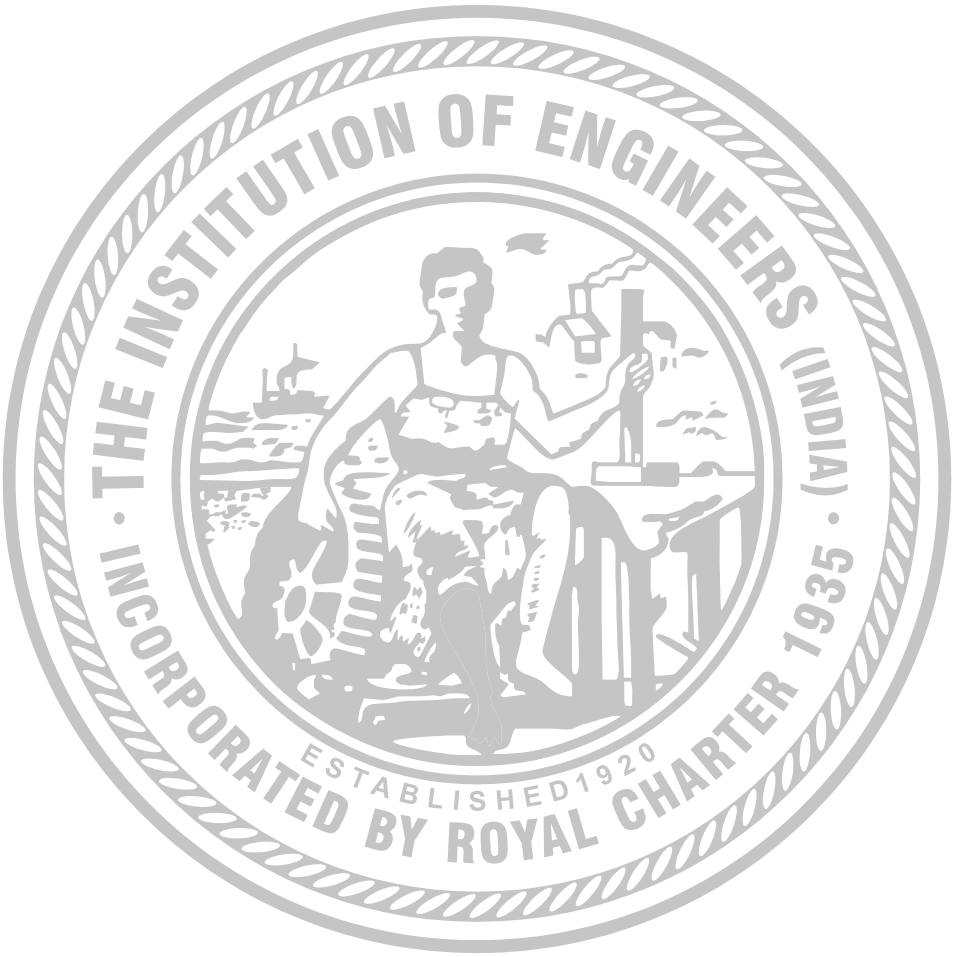
Membership Fee for Students' Chapter	Subscription (Rs)	Share of Colleges/Institutions (Rs)	Share of HQs (Rs)
First Year	536	300	236 *(Incl. 18% GST)*
Second Year			
Third Year			

- 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/dd.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 Members of Students' Chapters may submit paper in students journal which is published every year in December.
- 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.


THE INSTITUTION OF ENGINEERS (INDIA)
INCORPORATED BY ROYAL CHARTER 1935
ESTABLISHED 1920