



IEI

Newsletter

Students' Chapters

February
2024

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ALL INDIA STUDENTS' COMMITTEE (AISC) Session 2023-24

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Prof (Dr) Chandrashekara S N, FIE

Chairman,
All India Students' Committee (AISC)

The paradigm of engineering has shifted to a large extent due to innovation of various new technologies. A few of the recent development in technologies include internet of things, robotics, artificial intelligence, green technologies and so on.

The simulation of human intelligence in computers is known as Artificial Intelligence (AI). This is currently the fastest growing trend in the present world. Many experts agree that AI can help overcome the challenges and avert crisis in various technological sectors.

Robotics is one of the leading technologies that are predicted to shape the world in near future. It can be applied in diverse ways considering the advanced society.

Machine learning (ML) is one of the fastest-growing technologies in many arenas from financial services, government, health care, oil & gas to transportation, and many more.

3D manufacturing is the blooming technology enhancing in all directions. It assists in comprehending the products or their parts better from healthcare to industrial manufacturing.

Digital Forensics in Cyber Security help to collect, process, preserve, and analyze computer-related evidence to identify network vulnerabilities in search of evidence of criminal activity. Counter-intelligence is run against hackers, criminals, and others with nefarious intentions. Organizations are cautious with the data they maintain. They are constantly testing their systems, looking for vulnerabilities, and aggressively pursuing the people who hack into networks in order to commit crimes.

Green Engineering is the use of processes and products, which minimizes depletion of natural resources, pollution and the risk to human health and the environment, making the product sustainable. It includes new eco-friendly and safe chemicals, methods and techniques for developing environmentally friendly novel materials and new industrial technologies. Innovation of new sustainable construction materials, green building, zero energy buildings, green city and sustainable development, cloud- and green IoT-based technology for sustainable smart cities have revolutionized construction engineering. Upcoming technologies in electronics, photonics, optics, machinery, microbiology, biomedical industries have contributed in energy conservation, rural and urban development. Renewable energy technologies, energy storage and network, clean energy and bioenergy, biofuels, biobased materials, biopolymers and composites are now in use instead of hybrid materials, novel materials and devices.

I, as a Chairman of All India Students' Committee (AISC), I would like to request you to organize various technical activities on these trends in Engineering.

News of Technical Activities from Engineering College Students' Chapter

Southern Zone

Matrusri Engineering College, Hyderabad (Telangana)

The IEI Students' Chapter, Department of Information Technology of Matrusri Engineering College organized a two days Workshop on 'Full Stack Development using Python' during 30-31 January 2024.



Speaker and the participants during the event

They also arranged talks by Dr Subbanna Bhat, Former Professor, National Institute of Technology Karnataka, Surathkal on 26 February 2024 in association with Institute of Electrical and Electronics Engineers (IEEE) and Indian Society For Technical Education (ISTE).



Participants during the event



Speaker during the event

N.M.A.M. Institute of Technology, Nitte (Kartanaka)

The Students' Chapter of Department of Electrical and Electronics Engineering of NMAMIT organised a quiz competition on 27 January 2024.



View of the participants during the event

They also organised a one-day expert talk on 'Entrepreneurship Skill, Attitude & Behaviour Development' on 20 February 2024.

The IEI Students' Chapter of Electronics and Communication Engineering Department conducted 'ELECTRO- CRAFT', a technical event on 28 October 2023 and a Technical Talk on 'Global Navigation Satellite Systems – Electronics All in One' on 3 November 2023.



Speaker during the event

News of Technical Activities from Engineering College Students' Chapter



Speaker and the participants during the events

A Motivational Talk was organized by the Students' Chapter of Department of ISE on 'Indian Space Technology and Application Program' on 3 November 2023.

P. A. College of Engineering, Mangalore (Karnataka)

The Students' Chapter of Civil Engineering Department of P. A. College of Engineering organised a construction site visit to P.A. Pharmacy College extension work on 23 February 2024.



Participants during the visit

P.E.S. Institute of Technology and Management, Shivamogga (Karnataka)

The IEI Students' Chapter of Department of Electrical and Electronics Engineering of P.E.S. Institute of Technology and Management conducted a three days Workshop on 'Employability Skills for EEE Students in IT Domains' during 15-17 February 2024.



Participants during the event

NSS College of Engineering, Palakkad (Kerala)

The Students' Chapter of Civil Engineering Department and Mechanical Engineering Department of NSS College of Engineering organized a one-day training program on road safety and youth leadership on 13 February 2024 as part of Road Safety Month 2024.



Participants during the workshop

Ramco Institute of Technology, Rajapalayam (Tamil Nadu)

The Students' Chapter of Computer Science and Engineering Department of Ramco Institute of Technology organized a 'Technical Mock Interview' on 15 December 2023, a 'Project Presentation Contest' on 11 January 2024 and an event 'Error Hunting' on 6 December 2023.



View of the participants

News of Technical Activities from Engineering College Students' Chapter



Glimpses of the 'Error Hunting' event

They arranged a Guest Lecture on 'Career Guidance on Data Engineering' on 10 February 2024.



Speaker and the participants during the event

The Chapter also organized a 'Code Clash Event' to improve their coding skills of the students on 28 February 2024.



Speaker and the participants during the event

SRM Institute of Science & Technology, Chennai (Tamil Nadu)

The IEI Students' Chapter organized a one day National Workshop on 'Gender Equality and Women Empowerment' on 24 January 2024.



Speakers and the participants of the event

Sahyadri College of Engineering & Management, Adyar (Karnataka)

The IEI Students' Chapter of Department of Information Science & Engineering of Sahyadri College of Engineering & Management organized a session on 'Achieving Problem – Solution Fit and Product – Market Fit' on 19 January 2024.



Participants during the event

The IEI Students' Chapter of Department of Artificial Intelligence and Machine Learning Engineering of Sahyadri College of Engineering and Management organized a session on 'Innovation and Entrepreneurship Outreach Program' on 30 January 2024.



Participants during the event

Saintgits College of Engineering, Kottayam (Kerala)

The Students' Chapter of Mechanical Engineering Department of Saintgits College of Engineering organized a Technical Talk on 'Synergising Mechanical Engineering with Logistic Expertise' on 28 February 2024.

News of Technical Activities from Engineering College Students' Chapter



Speaker and the participants during the technical talk

Srinivasa Ramanujan Institute of Engineering, Anantapur (Andhra Pradesh)

The IEI Students' Chapter of Department of Electronics and Communication Engineering of Srinivasa Ramanujan Institute of Engineering conducted a One Day Workshop on 'Sustainable Lifecycle for Environment' on 6 February 2024.



Participants during the event

Srinivasa Ramanujan Institute of Technology, Chedulla (Andhra Pradesh)

The Students' Chapter of Department of Electrical and Electronics Engineering of Srinivasa Ramanujan Institute of Technology organised an 'Awareness on Outcome Based Education' on 26 February 2024.



Students Participated the Session

The IEI Students' Chapter of Electronics and Communication Engineering Department of Srinivasa Ramanujan Institute of Technology conducted a one day Workshop on 'Telecommunication Technologies' on 16 February 2024.



Participants and the Speaker of the event

Western Zone

Birla Vishwakarma Mahavidyalaya, Vallabh Vidyanagar (Gujarat)

The Students' Chapter of Civil Engineering Department conducted a 'Hands-on Training on Digital Surveying Instruments' on 06 January 2024.



Glimpses of the event

They organized a session on 'Future in Canada: The Student Awareness Seminar' on 19 January 2024.

News of Technical Activities from Engineering College Students' Chapter



Participants during the event

The IEI Students' Chapter arranged a Technical Visit to 'Building Materials & Start-Up Exhibition' on 27 January 2024.



Participants during the event

They organized a workshop on the theme 'WaterGEMS: How to Build, Analyse and Optimize the Hydraulic Models' on 24 February 2024.

They arranged an enlightening expert session on 'Spatio-Temporal Assessment of Flood and Drought of a Semi-arid Part of Middle Tapi Basin, Gujarat, India' on 24 February 2024.



Glimpses of the event

Fr. Conceicao Rodrigues Institute of Technology, Navi Mumbai (Maharashtra)

The Students' Chapter of Mechanical Engineering Department of Fr. Conceicao Rodrigues Institute of Technology organized a Short Term Training Program on 'Tools and Methods of Research and Publication' during 2-6 January 2024.



Trainer and the participants

G. H. Raisoni Institute of Engineering and Technology, Nagpur (Maharashtra)

The Students' Chapter of Department of Electrical Engineering of G. H. Raisoni Institute of Engineering & Technology organized various activities 'ELECTRICA 2K24' under 'TECHKRUNCH' during 16- 17 February 2024.



View of the participants during the event

They also organized an expert lecture on 'Introduction to Robotics' on dated 29 February 2024.



View of the dias

News of Technical Activities from Engineering College Students' Chapter

L. D. College of Engineering, Ahmedabad (Gujarat)

The IEI Students' Chapter of Rubber Technology Department of L D College of Engineering organized a Symposium on 'Understanding GST: Indian Taxation System' on 8 January 2024.



Participants during the program

IEI Student's Chapter of Department of Electrical Engineering of L.D. College of Engineering organized a seminar highlighting the history and highlights of IEI on 21 February 2024 and conducted a Workshop on 'Real-time Implementation of IoT Using NodeMCU' on 23 February, 2024.

MGM's College of Engineering and Technology, Navi Mumbai (Maharashtra)

The Students' Chapter of Department of Computer Science and Engineering of Saraswati College of Engineering was inaugurated on 26 January 2024.



View of the participants

They successfully organized a two-day workshop on 'Front-end Development' during 26-27 February 2024.



Flyer of the event

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

The Students' Chapter of Computer Science and Engineering Department of P. R. Pote Patil College of Engineering & Management, Amravati had arranged a One Day Workshop on 'Research Paper & Thesis Writing' on 08 February 2024, an Awareness Program on 'Cyber Security' on 14 February 2024 and a One day Live Hands-on Workshop on 'Technology- CCNA IT Networking & Python+AI' on 16 February 2024.



News of Technical Activities from Engineering College Students' Chapter



View of the experts delivering lectures

Pune Vidyarthi Griha's College of Engineering and Technology, Pune (Maharashtra)

The IEI Students' Chapter of Department of Mechanical Engineering of Pune Vidyarthi Griha's College of Engineering and Technology organized a Workshop on 'Six Sigma, GD&T, and CAE Ansys' during 15 – 18 January 2024.



Participants during the program

Saraswati College of Engineering, Navi Mumbai (Maharashtra)

The Students' Chapter of Department of Civil Engineering of Saraswati College of Engineering was inaugurated on 25 January 2024. Mr Sunny Surlaker, Head, Technical Services and R&D Division Asses Built Chem Pvt. Ltd was the Chief Guest. He delivered an expert talk on 'Waterproofing of Structures and Durability of Concrete'.



Flyer of the event

Thakur College of Engineering and Technology, Mumbai (Maharashtra)

The IEI Students' Chapter of Thakur College of Engineering and Technology organized Workshop on 'Exploring Satellite Thermal Management with the Satellite Cool Guard Project' on 9 February 2024.



Glimpse of the event

Eastern Zone

Haldia Institute of Technology, Haldia (West Bengal)

The Students' Chapter of Department of Civil Engineering of Haldia Institute of Technology organized 'Oritecture', a unique competition that challenged the participants to push the boundaries of creativity and innovation using origami engineering principles in the month of February 2024.



Participants during the program

The Assam Kaziranga University, Rowmarikhuti (Assam)

The IEI Students' Chapter of Civil Engineering Department of The Assam Kaziranga University hosted a riveting '3D Model Competition' on 31 January 2024.

News of Technical Activities from Engineering College Students' Chapter



Participants during the event



The IEI Students' Chapter also organized a one day Seminar on 'Overall Methodology in OBE' on 20 January 2024.



Glimpses of the event



Speaker delivering his speech

University of Engineering and Management, Kolkata (West Bengal)

The IEI Students' Chapter of Department of Electronics and Communication Engineering of University of Engineering and Management was inaugurated on 30 January 2024.



Lighting of the lamp of the program



Glimpses of the events

Northern Zone

Anand International College of Engineering, Jaipur (Rajasthan)

The IEI Students' Chapter of Anand International College of Engineering organized 'Hybrid 4th International Conference on Recent Developments in Engineering & Technology (ICRDET'24)' during 16-17 January 2024.

News of Technical Activities from Polytechnic College Students' Chapter

AISSMS's Polytechnic Pune (Maharashtra)

The IEI Students' Chapter of AISSMS's Polytechnic organized an Industrial Visit at Maharashtra State Electricity Distribution Co. Ltd, Baner on 17 February 2024.



Glimpses of the event Franco

The Students' Chapter of AISSMS's Polytechnic Pune organized a guest lecture was organized on the theme 'Design for manufacturing (Body in white)' as a part of study of the subject Automobile Systems and Body Engineering on 20 February 2024.



Speaker and the participants during the event

The Chapter also arranged a technical visit to Katraj Dairy, Pune on 08 February 2024 and Vishwa CNC Technologies Pvt. Ltd, Pune on 09 February 2024.



Trainer and the participants during the training programs

The IEI Students' Chapter has organized a Industrial Visit on 05 January 2024 at Police Communication and Transport (Police Wireless Mobile Station), Pune.



Glimpses during the event

Government Polytechnic, Ahmedabad (Gujarat)

The IEI Students' Chapter of Government Polytechnic was inaugurated and awareness program was also arranged on 16 February 2024.



Lighting of the lamp during the event

Announcements

Theme
**Green Sustainability Development in
Engineering & Technology**

Host Institute
JIS College of Engineering
Kalyani, West Bengal

Date: 05 April, 2024

Contact: Dr Indranath Sarkar
Phone: 8240533192
E-mail: indranath.sarkar@jiscollege.ac.in
for registration from click link below
<https://forms.gle/JtY5Hewi1HrMukBp7>

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 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 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.

