

IEI

Newsletter Students' Chapters

February
2022

Inside

| | |
|---|----|
| Chairman's Message | 2 |
| News of Technical Activities from Engineering College Students' Chapter | 3 |
| News of Technical Activities from Polytechnic College Students' Chapter | 11 |
| Report of Technical Activities by Students' Chapter | 12 |
| Membership for undergraduate B Tech Students: Student Membership (SMIE) | 12 |
| Online Submission of Corporate Membership | 12 |
| Steps to establish IEI Students' Chapters in | 13 |
| Privileges of Student Members attached to Students' | 14 |

ALL INDIA STUDENTS' COMMITTEE (AISC)

Session 2021-22

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Mr Safikul Islam, FIE

Chairman,
All India Students' Committee (AISC)
The Institution of Engineers (India)

India is the second populous country and the third-largest energy consuming country in the world. To meet the growth in electricity demand over the next twenty years India's generation capacity will have to increase manifold. The major part of the nation's energy requirement is met from fossil fuels. It is needless to say that they are limited source of energy and have serious environmental consequences. In times of depleting resources and climate threats, the best way forward for India is to promote renewable power generation like, wind power generation and solar electricity generation. It is essential to tap into these huge renewable power sources and consume minimum non-renewable resources, keeping energy conservation in mind.

In 2016, by following Paris Agreement, India made commitment of producing 50% of its total electricity from non-fossil fuel sources by 2030. Government of India has set targets to reduce India's total projected carbon emission by one billion tons by 2030, reduce the carbon intensity of the nation's economy by less than 45% by the end of the decade and achieve net-zero carbon emissions by 2070 and expand India's renewable energy installed capacity to 500 GW by 2030. As on 31st December, 2021, the total installed capacity for renewable energy in India is 151.4 GW with more than 4/5 from wind power, large hydro power and solar power and a small fraction from bio-power and small hydro power. Solar, wind and hydroelectricity are environment-friendly cheaper power sources in India that can cater for the main load. Indian Government has taken initiatives to set up various new projects to achieve this goal. There are lots of opportunities for the future engineers to indulge themselves in the nation's initiative to be one of the leading producers of renewable energy.

As Chairman of All India Students' Committee, I request the entire Students' Chapters to organize more technical events to make the upcoming engineers aware of the newly existing as well as the implemented technologies towards generation of renewable energy.

Reports from Engineering College Students' Chapter

The IEI Students Chapter, Computer Science and Engineering Department of Ramco Institute of Technology organized industrial guest lecture on 'Java Spring Boot Microservices' on 24 December 2021 and guest lecture on 'Industrial Applications of Data Structures' on 8 January 2022.



Flyers of guest lectures

Raghu Engineering College (Andhra Pradesh)

The IEI Students' Chapter of Civil Engineering Department of Raghu Engineering College organized a field visit at 'Narava Water Treatment Plant' on 7 November 2021.



Participants during the field visit

The Students' Chapter also organized an online workshop on 'Urban Air Quality Management-Environment and Sustainability' on 8 January 2022.



Flyer of the workshop

Guru Nanak Dev Engineering College (Karnataka)

The IEI Students' Chapter, Civil Engineering Department of Guru Nanak Dev Engineering College organized Seminar on 'Modern Construction Material and Practices' on 13 December 2021.



Flyer of the seminar

KLS Vishwanathrao Deshpande Institute of Technology (Karnataka)

The IEI Students' Chapter of Electrical & Electronics Department of KLS Vishwanathrao Deshpande Institute of Technology organized quiz on 'Energy Conservation' on 29 December 2021.

L. D. College of Engineering (Gujarat)

The IEI Students' Chapter of Biomedical Engineering Department of L.D College of Engineering organized a webinar on 'Basics of Stent Design' on 11 January 2022.

The IEI Students' Chapter also organized a webinar on 'Essentials of Scientific Writing' on 19th February 2022.

Reports from Engineering College Students' Chapter



Screenshots of the webinar

PSCMR College of Engineering and Technology (Andhra Pradesh)

The IEI Students' Chapter of Electrical and Electronics Engineering Department of PSCMR College of Engineering and Technology organized 'Project Expo' on 11 January 2022.



Flyer of the event

Nawab Shah Alam Khan College of Engineering Technology (Telangana)

The IEI Students' Chapter of Civil Engineering Department of Nawab Shah Alam Khan College of Engineering Technology organized an online technical talk on 'Overview of Structural Control' on 17 December 2021.

Matrusri Engineering College (Telangana)

The IEI Students' Chapters of Department of Electrical and Electronics, Mechanical & Electronics and Communication Engineering jointly organized two days hands-on learning

programme on 'Electric Vehicle Engineering Fundamentals' during 6-7 January 2022.



Flyer and lighting of the lamp of the event

Shri Sant Gajanan Maharaj College of Engineering (Maharashtra)

The IEI Students' Chapter, Mechanical Engineering Department of Shri Sant Gajanan Maharaj College of Engineering conducted a seminar on 'A Journey from Innovation to Entrepreneur' on 8 January 2022.



View of the dias

Narayana Engineering College (Andhra Pradesh)

The IEI Students' Chapter, Electronics and Communication Engineering Department of Narayana Engineering College conducted

Reports from Engineering College Students' Chapter

seminar on 'Opportunities in Higher Education for Engineering Students' on 31 December 2021.



Participants during the seminar

Marian Engineering College (Kerala)

The IEI Students' Chapter of Civil Engineering Department of Marian Engineering College organized two webinars on 'Concrete Mix Design as per IS 10262 – 2019' on 4 January 2022 and on 'Introduction to High Performance Protective Coatings for Industrial Infrastructure' on 22 January 2022.



Speakers of the webinar

School of Engineering, BBD University (Uttar Pradesh)

The IEI Students' Chapter, CSE Department of School of Engineering, BBD University organized the inaugural ceremony of 'BBDU CodeLake and Mission 360°' held on 31 January 2022.



Flyer of the event

Jyothi Engineering College (Kerala)

The IEI Students Chapter, Mechanical Engineering Department of Jyothi Engineering College conducted 'Energy Conservation Day' on 18 December 2021.



Flyer of the event

Saintgits College of Engineering (Kerala)

The IEI Students Chapter, Electrical and Electronics Engineering Department organized poster competition on 22 December 2021 and a lecture competition on 6 January 2022.

The IEI Students Chapter, Electronics Engineering Department organized a webinar on 'Emerging Technologies for Next Generation Integrated Circuits' on 15 January 2022 and a 'Paper Presentation' on 19 January 2022 through Google Meet.

Reports from Engineering College Students' Chapter



Screen-shot of the seminar



Jabalpur Engineering College (Madhya Pradesh)

The IEI Students' Chapter of Electrical Engineering Department of Jabalpur Engineering College organized 'Technical Quiz' on 24 January 2022.

TKM Institute of Technology (Kerala)

The IEI Students' Chapter, Civil Engineering Department organized and conducted three days Lecture Series on 'Structures- an Introduction to Design Aspects and Failure' during 21-23 October 2021.



Screenshot of the event

The IEI Students' Chapter, Chemical Engineering Department of Saintgits College of Engineering organized 'Seminar Competition' during 3rd January 2022 to 7th January 2022.

The IEI Students' Chapter, Mechanical Engineering Department of Saintgits College of Engineering conducted 'Seminar Competition' on 22 January 2022.



Screen-shot of the event

BVM Engineering College (Gujarat)

The IEI Students' Chapter, Civil Engineering Department organized webinar 'Green Building-Way Forward' on 21 January 2022.



Screen-shot of the seminar

Anand International College of Engineering (Rajasthan)

The IEI Students Chapter, Computer Science & Engineering and Electronics & Communication Engineering Department of Anand International College of Engineering organized a seminar on 'Awareness About the Technical Societies (IEEE, IETE, IE(India) etc.)' on 11 December 2021.



Flyer of the webinar

Reports from Engineering College Students' Chapter

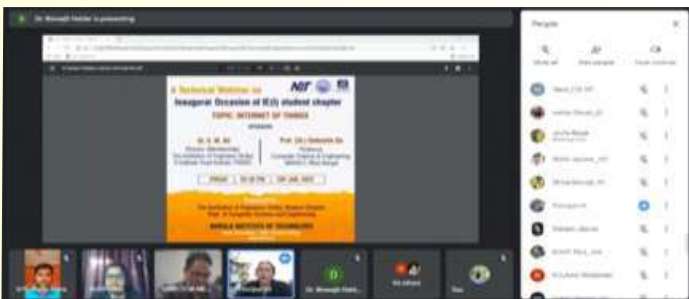
Narula Institute of Technology (West Bengal)

The IEI Students' Chapter of Department of Electrical Engineering of Narula Institute of Technology organized a webinar on 'Career Aspects in Electrical Engineering' on 28 January 2022.



Screen-shot of the event

The IEI Students' Chapter, Computer Science and Engineering Department of Narula Institute of Technology organized a Technical Webinar on Inaugural Occasion of IEI Student Chapter on 28 January 2022.



Screen-shot of the event

VR Siddhartha Engineering College (Andhra Pradesh)

The IEI Students' Chapter, Electrical and Electronics Engineering Department organized a seminar about 'Robotics' on 25 January 2022.



Audience of the event



Screen-shot of the event

Graphic Era (Deemed to be) University (Uttarakhand)

The IEI Students' Chapter, Computer Science and Engineering Department of Graphic Era (Deemed to be) University organized a five days workshop on 'Emerging Tools and Techniques in Artificial Intelligence' during 24-29 January 2022.



Screen-shot of the event

Guru Nanak Dev Engineering College (Karnataka)

The IEI Students' Chapter, Electrical and Electronics Engineering Department of Guru Nanak Dev Engineering College organized workshop on 'Electrical System in Construction Industry' during 5-7 February 2022.



Flyer of the workshop

Reports from Engineering College Students' Chapter

L D College of Engineering (Gujarat)

The IEI Students' Chapter, Electrical Engineering Department of L D College of Engineering Inaugurated and organized an expert talk on 'Climate Change & Sustainable Energy' on 29 January 2022.



Flyer and screen-shot of the event

JSPM's Rajarshi Shahu College of Engineering (Maharashtra)

The IEI Students' Chapter, Department of Computer Engineering of JSPM's Rajarshi Shahu College of Engineering organized a virtual expert session on 'Current Trends in DevOps and Cloud Computing' on 29 January 2022.



screen-shot of the event

AJ Institute of Engineering & Technology (Karnataka)

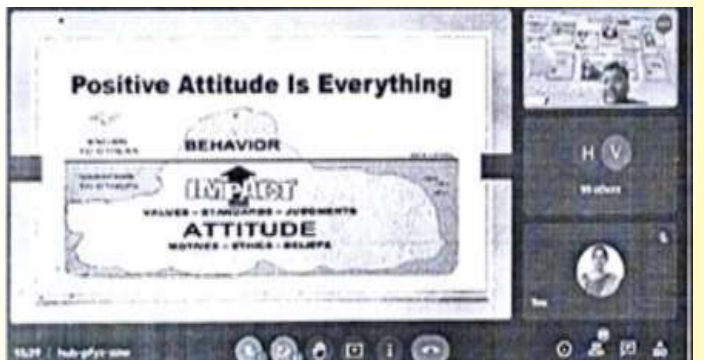
The IEI Students' Chapter of AJ Institute of Engineering & Technology organized webinar on 'Experiential Learning Through Trans-disciplinary Approach' on 31 January 2022.



screen-shot of the event

Hindusthan College of Engineering and Technology (Tamil Nadu)

The IEI Students' Chapter, Department of Information Technology of Hindusthan College of Engineering and Technology organized webinar on 'The Power of a Positive Attitude – Your Road to Success' on 29 January 2022.



screen-shot of the event

Narayana Engineering College (Andhra Pradesh)

The IEI Students' Chapter, Computer Science and Engineering Department of Narayana Engineering College inaugurated on 10 February 2022.



Lighting of the lamp of the event

Jain College of Engineering (Karnataka)

The IEI Students' Chapter, Electrical & Electronics Engineering Department of Jain College of Engineering conducted 'Alumni Interaction Series- Connect E21' on 6 February 2022 online.

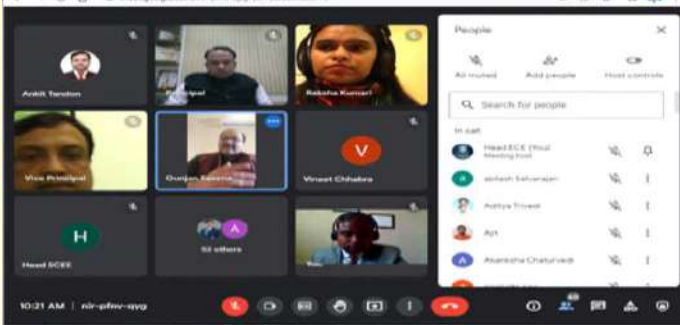


screen-shot of the event

Reports from Engineering College Students' Chapter

Anand International College of Engineering (Rajasthan)

The IEI Students' Chapter, Computer Science & Engineering and Electronics & Communication Engineering Department organized a five days FDP on 'New Techniques in the Field of Engineering' during 8-12 February 2022.



screen-shot of the event

Er. Perumal Manimekalai College of Engineering (Tamil Nadu)

The IEI Students' Chapter, Aeronautical Engineering Department of Er. Perumal Manimekalai College of Engineering organized a technical webinar on 'Autonomous Flight System' on 16 November 2021.



Flyer of the webinar

The IEI Students' Chapter also organized a technical talk on 'IAF-Helicopter Rotor System and Control' on 27 January 2022.

Institute of Technology, Nirma University (Gujarat)

The IEI Students' Chapter, Civil Engineering Department of Institute of Technology, Nirma University organized webinar on 'Career Talks and Further Studies in US' on 26 February 2022.



Flyer of the webinar

Amrita College of Engineering and Technology (Tamil Nadu)

The IEI Students' Chapter of Department of Electronics and Communication Engineering of Amrita College of Engineering and Technology organized an online workshop on 'Entrepreneurship and Innovation as Career Opportunity' on 21 February 2022.



Flyer of the workshop

Narayana Engineering College (Andhra Pradesh)

The IEI Students' Chapter, Electronics and Communication Engineering Department of Narayana Engineering College organized a two day workshop on 'EDA Tools' during 10-11 February 2022.



The trainer and the participants during the workshop

The IEI Students' Chapter also organized a technical talk on 'Open Source Hardware' on 22 February 2022.

Reports from Polytechnic College Students' Chapter

Buddha Polytechnic College (Uttar Pradesh)

The IEI Students' Chapter of Buddha Polytechnic College organized 'Technical Quiz' on 29 January 2022, 'Technical Poster Presentation' on 5 February 2022, 'Technical Debate' on 12 February 2022 and 'Technical Extempore' on 19 February 2022.

Rajagopal Polytechnic College (Tamil Nadu)

The IEI Students' Chapter of Rajagopal Polytechnic College conducted practical workshop on 'Drone Piloting & Inauguration of Drone Club' on 22 December 2021.



View of the dias during inaugural session of the workshop

P.A.C. Ramasamy Raja Polytechnic College (Tamil Nadu)

The IEI Students' Chapter of P.A.C. Ramasamy Raja Polytechnic College organized lecture on 'Screw Forming Technology' on 3 December 2021.



Speaker during the lecture

The IEI Students' Chapter also organized paper presentation on 'Energy Conservation Day' on 16 December 2021 and seminars on (i) 'Nuclear Power Plant Safety and its Site Selection' on 29 December 2021, (ii) 'Trouble Spots in Motor Control Circuits' on 1 December 2021, (iii)

'Ungrounded Neutral' on 1 December 2021, (iv) 'Incorrect Wire Markers' on 1 December 2021, (v) 'Estimation of Wiring for Residential Building 1 BHK' on 18 December 2021, (vi) 'Thyristor Phase Control' on 27 December 2021 and (vii) 'Cruise Missile Technology' on 8 December 2021 and a workshop on 'Master Class in MEP Services' on 13 December 2021. The Chapter conducted a Project Demonstration event on 24th December 2021, Poster Competition on 'Sensor Interfacing' on 9th December 2021, Group Discussion on 21st December 2021 and on 'CPLD and its Types' on 7th December 2021. In addition to these, the Students' Chapter also arranged for a quiz on 'Basics of Estimating and Costing' on 17th December 2021 and a video show on 'Working Principle of Vapour Compression Refrigeration System and Functions of Capillary Tube' on 2 December 2021.



Audience during the video show

Periyar Centenary Polytechnic College (Tamil Nadu)

The IEI Students' Chapter of Periyar Centenary Polytechnic College organized a tree plantation on 2 December 2021, debate on 'Social Harmony (Peace & Unity)' on 4 December 2021, drawing competition on 'Social Harmony (Peace & unity)' on 18 December 2021 and 'Clean India Green India Camp' during 21-22 December 2021.



Participants during tree plantation on 2 December 2021

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 event organised. The format of the report is available in the link

<https://www.ieindia.org/webui/IEI-Network.aspx#students-chapters>

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)40106248/ (033)40106302.

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

In spite of the serious situation due to COVID-19 and complete lock down we are trying our best to serve our esteemed members/prospective members. Your kind cooperation is solicited. You are requested to submit your membership application only **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

STAY HOME STAY SAFE

Steps to establish IEI Students' Chapters in

Engineering Colleges/ Polytechnics

Engineering Colleges/ Polytechnics may establish Students' Chapter of IEI with atleast 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 **fifty numbers (50)** of students irrespective of the year of study in the same branch of engineering is required for opening a Students' Chapter.
- (ii) 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 in 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 the webpage www.ieindia.org . The forms have to be filled up by the students willing for members of Students' Chapter in consultation with the Adviser.
- The requisite fee to be collected from each student as per the year of study as given below.

i) For Degree Engineering College:

| Membership fee for Student 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 | | | |

ii) For Polytechnic:

| Membership fee for Student Chapter | Subscription (Rs) | Share of Polytechnic/ 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 details e-mail to studentchapter@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.
- ❖ Reimbursement of travelling expenses to students selected for presentation of technical papers in Technicians'/Students' Convention of IEI.
- ❖ 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>).
- ❖ **Best three** technical papers presented in the Seminar and Technical Sessions by student members of Engineering College and Polytechnic Students' Chapters are awarded in the Annual Convocation and Technicians'/ Students' Convention.
- ❖ The **Students' Chapter Newsletter** is distributed amongst the Chapter members which is sent to the Advisers. IEI Students' Chapter Newsletter may be also browsed through www.ieindia.org.
- ❖ **B P Kapadia Memorial Prizes and upto Rs 27,000/-** to be awarded to the best three participants in Technical Session and Seminar during Student chapters' convention of Engineering College, Polytechnic Colleges and Technician Chapter separately.
- ❖ **EnggTalks** has been launched for student chapter members as community to interact amongst the engineering fraternity the same may be browsed through <https://www.enggtalks.com/communities/17>.
- ❖ The Students' Chapters may participate in **Regional Conclave** to be organized in the emerging field of engineering by engineering college and polytechnic region wise.

