

IEI

Newsletter

Students' Chapters

February
2021

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ALL INDIA STUDENTS' COMMITTEE (AISC)

Session 2019-20

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Also visit us





Dr Enti Ranga Reddy, FIE

Chairman,
All India Students' Committee (AISC)

Recently, the blocking of 118 mobile applications in India raised the question of data security of the different applications used across the country and the world on the whole for digital communications. The term 'Data Protection' signifies privacy laws and policies that restrict collection, storage and dissemination of personal data. Personal data generally refers to the information or data of an individual who can be identified from the information or private data of Government or any private organization or an agency.

Today, the corporate world deals with massive volumes of personal and financial data in process of storing details of his customers. The primary aim of data security is to protect the data that an organization collects, stores, creates, receives or transmits. When the whole business world is moving to a digital platform the importance of shielding data from security threats has become very important. Since more people are working remotely as a result of the current health crisis, there are more opportunities for unauthorized access to your data than ever before. Data security technology comes in many shapes to protect data from a growing number of threats. Many of these threats are from external sources, but organizations should also focus their efforts on safeguarding their data. The different methods include data encryption, data masking, data erasure, data resilience, etc. An essential part of data security is securing your data where it's stored. The practices for improving ones data security are by managing access to sensitive information, encrypting all data and protect user data at the source. Cyber security threats are constantly evolving and changing. Therefore one needs to test their systems regularly, have an incident management plan, create a secure data recovery plan and run Compliance Audits.

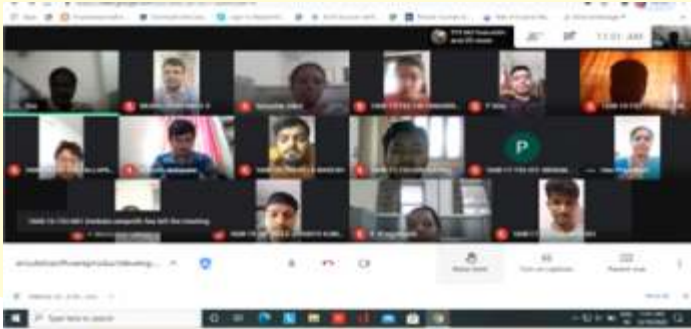
Unlike many countries, India presently does not have any express legislation governing data protection or privacy. However, the relevant laws in India dealing with data protection are the Information Technology Act, 2000 and the (Indian) Contract Act, 1872. The (Indian) Information Technology Act, 2000 deals with the issues relating to payment of compensation (Civil) and punishment (Criminal) in case of wrongful disclosure and misuse of personal data and violation of contractual terms in respect of personal data. This decision by Ministry of Electronics and Information Technology (MEITY), Government of India has yet again opened up the discussion on the urgent need to have strong Data Protection Laws in India.

I would request all the Members of the Student Chapters to explore the different possible methods to strengthen data security and protection. I would also like the Students' Chapters to organize activities on the subject matter.

Reports from Engineering College Students' Chapter

Matrusri Engineering College (Telangana)

The IEI Students' Chapter of Department of Computer Science and Engineering of Matrusri Engineering College organized a webinar on 'A Route to Software Product Development' on 19 December 2020.



Screenshot of the webinar

BNM Institute of Technology (Karnataka)

The IEI Students' Chapter of Department of Information Science & Engineering of B N M Institute of Technology conducted a technical talk on 'Fundamentals of NLP/U and Their Application in Automotive Infotainment Systems' on 5 December 2020.



Screenshot of the talk

Potti Sriramulu Chalavadi Mallikarjunarao College of Engineering & Technology (Andhra Pradesh)

The IEI Students' Chapter of Department of Electrical & Electronics Engineering of PSCMR College of Engineering & Technology organized a guest lecture on 'Design of ASIC/SOC Integrated Circuits' on 12 January 2021.



View of the participants during the lecture session

The IEI Students' Chapter of Department of Mechanical Engineering of the institute organized a seminar on 'Essence of Indian Traditional Knowledge' on 19 February 2021.



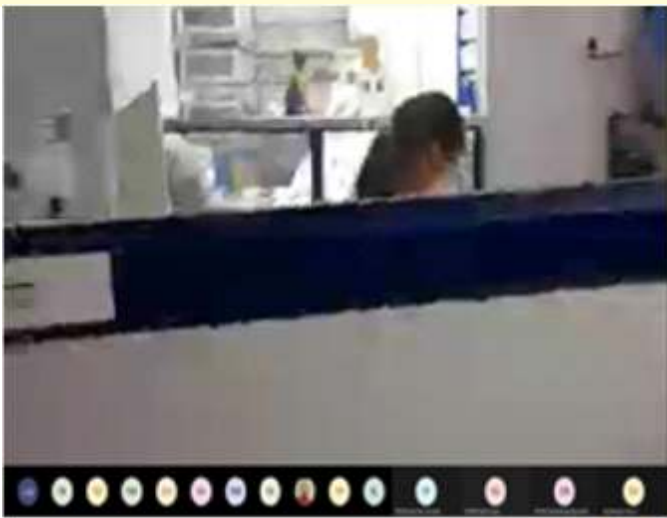
View of the participants during the seminar

Cusrow Wadia Institute of Technology (Maharashtra)

The IEI Students' Chapter of Electronics and Telecommunication Engineering Department of Cusrow Wadia Institute of Technology organized a technical quiz 'Mindsweeper' on 12 December 2020 and an expert lecture on 'Industrial Automation' on 22 January 2021. They also arranged an online industrial visit to Melux Control Gears Pvt. Ltd.(MELCON), Pune on 20 February 2021.



Reports from Engineering College Students' Chapter



Screenshot of the online visit

Jyothishmathi Institute of Technology & Science (Telangana)

The IEI Students' Chapter of Department of Computer Science and Engineering of Jyothishmathi Institute of Technology & Science organized two webinars namely (i)'Artificial Intelligence' on 6 November 2020 and (ii) 'Goal Setting' on 5 January 2021.

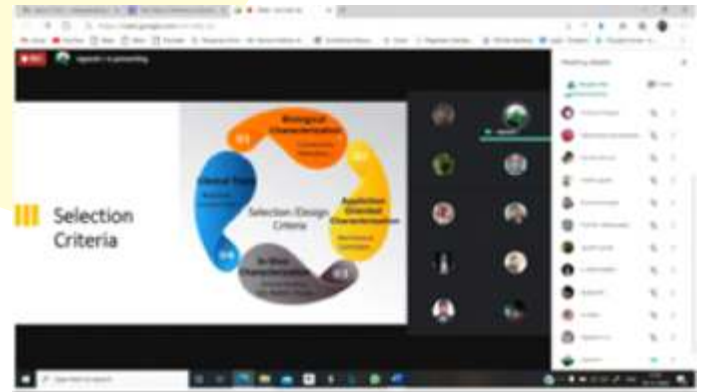


Screenshot of the webinar

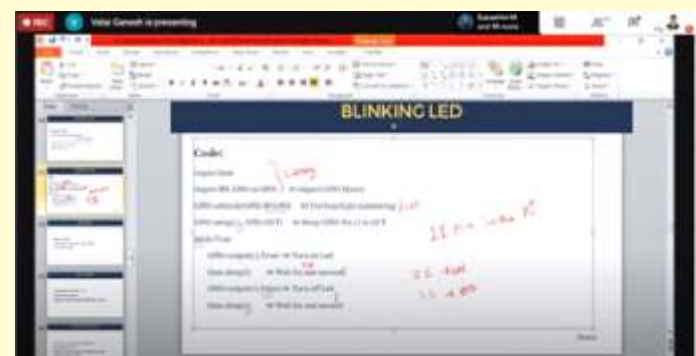
The IEI Students' Chapter of Department of Electrical & Electronics Engineering of the institute organized online technical webinar on 'Energy Conservation and Energy Audit' on 14 December 2020.

Ramco Institute of Technology, Rajapalayam

The IEI Students' Chapter of Mechanical Engineering Department of Ramco Institute of Technology conducted three online webinars (i) 'Biodegradable Materials' on 30 December 2020 (ii) 'IOT using Raspberry Pi for Beginners' on 8 January 2021 and (iii) 'Basic and Recent Trends in R & AC' on 12 January 2021.

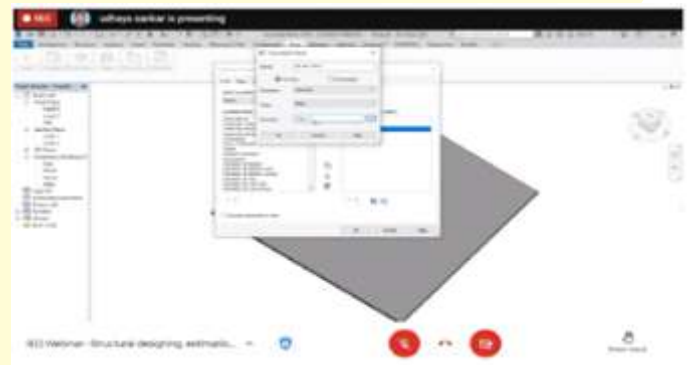


Screenshot of the webinar on 'Biodegradable Materials'



Flyer and screenshot of the webinar on 'IoT using Raspberry Pi for Beginners'

Reports from Engineering College Students' Chapter



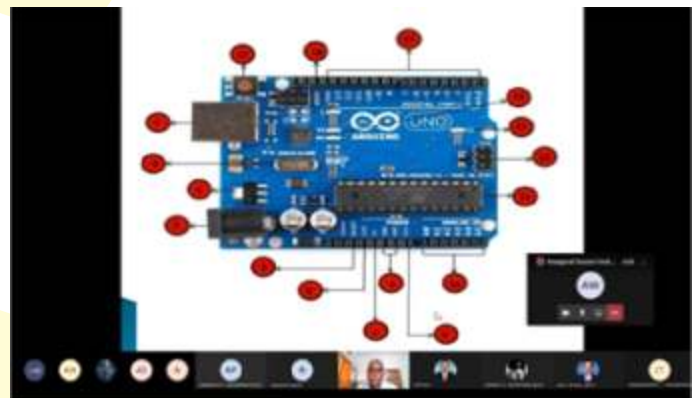
Flyer and screenshot of the webinar

Amrita College of Engineering and Technology (Tamil Nadu)

The IEI Students' Chapter of Department of Electronics and Communication of Amrita College of Engineering and Technology organized 'A Three Day Virtual Hands-on Training on Arduino Programming' from 11 - 13 January 2021.



Flyer and screenshot of the webinar on 'Basic and Recent Trends in R & AC'



Screenshot of the training programme

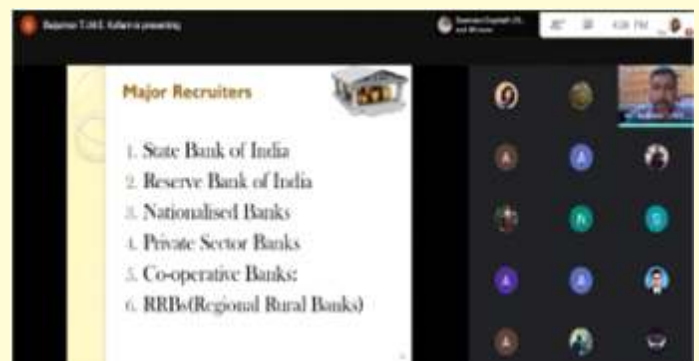
The Chapter also organized two online technical quizzes on (i) 'Thermal Engineering – I' on 2 January 2021 and (ii) 'CAD/CAM' on 17 January 2021 and an online aptitude quiz on 'Percentage' on 19 January 2021.

Sri Krishna College of Engineering and Technology (Tamil Nadu)

The IEI Students' Chapter of Department of Civil Engineering of Sri Krishna College of Engineering and Technology organized a webinar on 'Overview of Software's Utilized in Industrial Environment for Structures: Designing, Estimation and Costing' on 25 January 2021.

TKM College of Engineering (Kerala)

The IEI Students' Chapter of Electrical and Electronics Engineering Department of TKM College of Engineering in collaboration with Chemical, Civil and Computer Science Department organized a webinar on 'What After Graduation?' on 16 January 2021.



Screenshot of the webinar

Reports from Engineering College Students' Chapter

Nirma University (Gujarat)

The IEI Students' Chapter of Civil Engineering Department of Nirma University conducted a knowledge sharing session on 'Placement Mantra' on 28 January 2021.

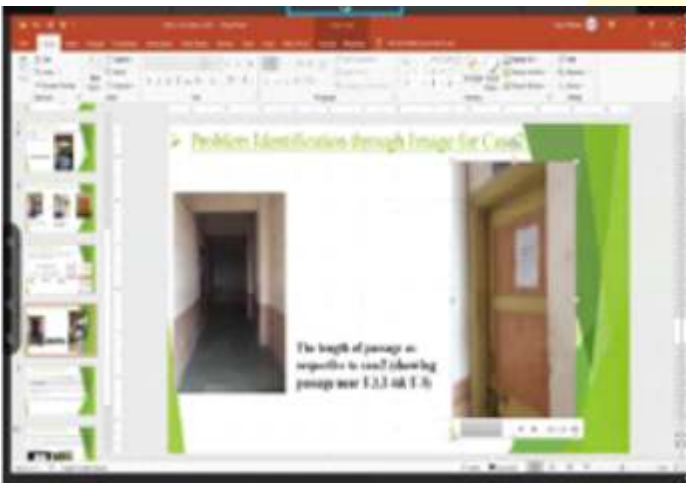
Institute of Technology, Nirma University (Gujarat)

The IEI Students' Chapter of Department of Civil Engineering of Institute of Technology, Nirma University organized a lecture on 'Structural Engineering and Professional Practice' on 6 February 2021.



Screenshot of the lecture

The Chapter also organized a technical event 'CIVIL-EYE-ZATION' on 30 January 2021.



Screenshot of the technical event 'CIVIL-EYE-ZATION'

BVM Engineering College (Gujarat)

The IEI Students' Chapter of Civil Engineering Department of BVM Engineering College organized a webinar on 'Use of LIDAR Technologies in Highways Infrastructure Development' on 30 January 2021.



Screenshot of the webinar

Saintgits College of Engineering (Kerala)

The IEI Students' Chapter of Department of Electrical & Electronics Engineering of Saintgits College of Engineering organized a lecture competition on 'Improved Control of A Hydrogen Energy Storage System in A Microgrid' on 27 January 2021. The Chapter also conducted an intradepartmental 'Project Competition' on 25 January 2021 and 'Paper Presentation' on 27 January and 28 January 2021.



View of the participants in project competition



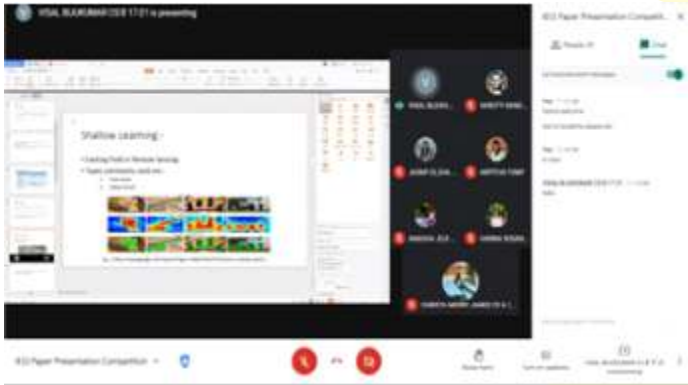
Reports from Engineering College Students' Chapter



Screenshot of the paper presentation

They also organized a project exhibition competition on 5 February 2021.

The IEI Students' Chapter of Computer Science and Engineering Department of the institute organized a paper presentation competition on 9 February 2021.



Screenshot of the paper presentation competition

RCC Institute of Information Technology (West Bengal)

The IEI Students' Chapter of Department of Electronics and Communication Engineering of RCC Institute of Information Technology organized a webinar on 'Building Blocks of VLSI Circuits' on 31 January 2021 jointly with IEEE Solid State Circuit Society, Kolkata Chapter.



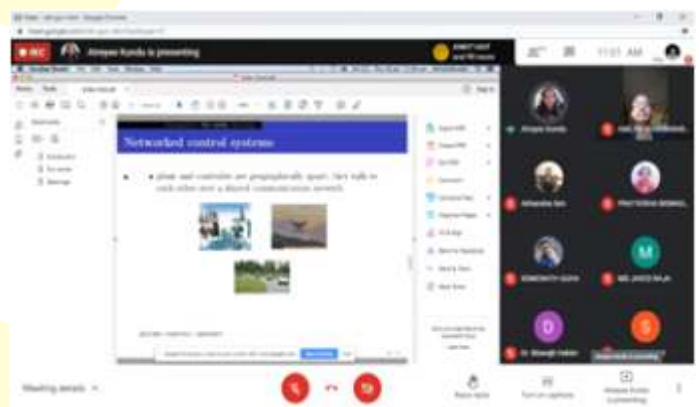
Screenshot of the webinar

Narula Institute of Technology (West Bengal)

The IEI Students' Chapter of Electrical Engineering Department of Narula Institute of Technology organized a webinar on 'Research Prospects in Automation & Control' on 28 January 2021.



Flyer and screenshot of the webinar



NSS College of Engineering (Kerala)

The IEI Students' Chapter of Mechanical Engineering Department of NSS College of Engineering organized a technical talk on 'HVAC with Automation_Career Options' on 28 January 2021.



Screenshot of the talk

Reports from Engineering College Students' Chapter

PACE Institute of Technology & Sciences (Andhra Pradesh)

The IEI Students' Chapter of Department of Electrical & Electronics Engineering of PACE Institute of Technology & Sciences conducted a webinar on 'Grid Technology for Renewable Energy Integration' on 6 February 2021.



Flyer and screenshot of the webinar on 'Importance of AMCAT and Job Prospects in Current Scenario'

AISSMS Institute of Information Technology (Maharashtra)

The IEI Students' Chapter of Electrical Engineering Department of AISSMS IOIT organized an online webinar on 'Protection and Condition Monitoring of Transformers' on 9 February 2021.



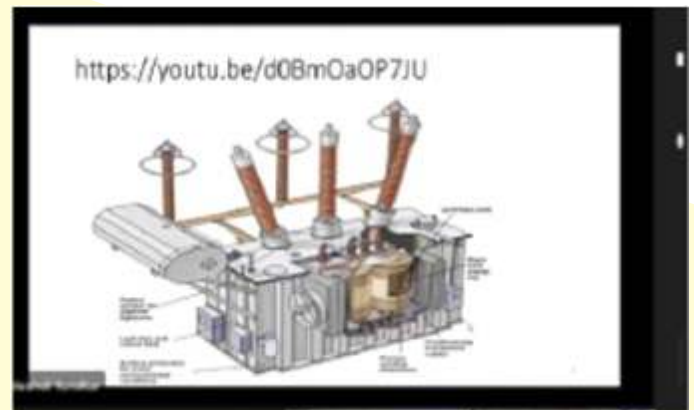
Flyer and screenshot of the webinar

AISSMS College of Engineering (Maharashtra)

The IEI Students' Chapter of Electronics & Telecommunication Department of AISSMS College of Engineering conducted webinars on 'UI Development' held on 8 February 2021 and on 'Importance of AMCAT and Job Prospects in Current Scenario' held on 10 February 2021.



Screenshot of the webinar on 'UI Development'



Flyer and screenshot of the webinar

Reports from Engineering College Students' Chapter

They also conducted an industrial visit to Ramelex Pvt. Ltd, Pune on 12 February 2021 and an environmental studies virtual tour on 2 February 2021.



View of the participants during the industrial visit

Government Engineering College Ajmer (Rajasthan)

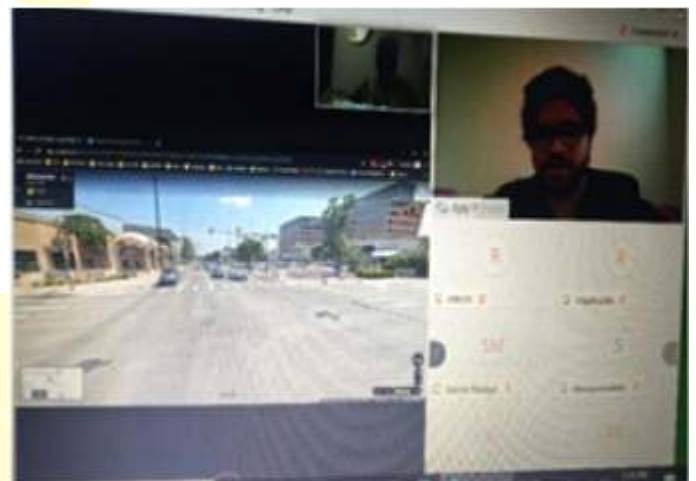
The IEI Students' Chapter of Electrical Engineering Department of Government Engineering College Ajmer organized a webinar on 'Wind Energy Technology' on 16 December 2020 and an expert lecture on 'Renewable Energy Integration to Power System' on 19 December 2020.



Screenshot of the webinar

Guru Nanak Dev Engineering College (Punjab)

The IEI Students' Chapter of Civil Engineering Department of Guru Nanak Dev Engineering College organized an orientation program for pre final and final year students on 26 February 2021.



Screenshot of the orientation program

Reports from Polytechnic College Students' Chapter

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

The IEI Students' Chapter of P.A.C. Ramasamy Raja Polytechnic College conducted a one day online webinars on (i) 'Additive Manufacturing Technology' on 13 January 2021, (ii) 'Statistical Application in Textiles' on 14 December 2020, (iii) 'Very Large Scale Integration' on 5 December, (iv) 'Types and Requirements of Plastering & Preparation and Application of Paint and Varnish' on 12 December 2020, (v) 'Requirements of Residential Buildings & Water Tank' on 9 December 2020 and (vi) 'Hydraulic System' on 11 December 2020.



Screenshot of the webinar on 'Additive Manufacturing Technology'

They also organized three lectures on (i) 'Green Buildings' on 5 December 2020. (ii) 'Global Positioning System' on 4 December 2020. (iii) 'Approval for Residential Buildings' on 18 December 2020.



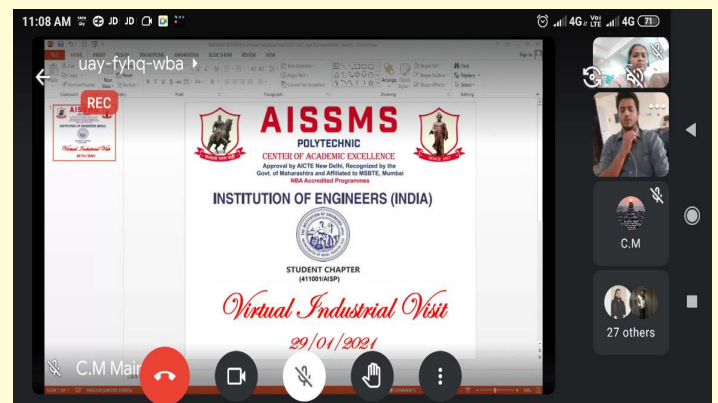
Screenshot of the lecture of 'Green Buildings'

The Chapter also arranged two technical demonstrations on 'Performance Test on Motors' on 17 December 2020 and 'Electrical Engines' on 18 December 2020 and model making on 'Vapour Compression Refrigeration System Cum Air Cooler' on 10 December 2020. They also organised two online group discussion on 'Pneumatic System & Hydraulic System' on 11

December 2020 and 'Multiple Air Conditioner Brands are available in India 2020' on 10 December 2020. In addition to these they conducted technical quizzes on (i) 'Design of Beams' on 7 December 2020, (ii) 'Nuclear Power Plant' on 7 December 2020, (iii) 'Design of Levers and Gears' on 2 December 2020, (iv) 'Lathes and Types of Lathes' on 12 December 2020, (v) 'Power System' on 4 December 2020, (vi) 'Electronic Devices and Circuits' on 22- 24 December 2020, (vii) 'Electronic Devices and Circuits' on 28 - 29 December 2020, (viii) 'Thermodynamic Air Cycles and S.F.E.E' on 6 December 2020, (ix) 'Air Cleaning and Air Filter in R & AC Machines' on 15 December 2020, (x) 'Treatment and Disposal of Sewage' on 6 December 2020, (xi) 'Decorative and Cladding materials and Different types of Concrete' on 3 December 2020 and (xii) 'HIV/AIDS and COVID-19 Pandemic Awareness' on 30 December 2020 and two aptitude tests. They also organised five film shows on (i) 'Textile Sizing' on 2 December 2020, (ii) 'Fibre Testing Instruments' on 3 December 2020, (iii) 'Modern Surveying' on 30 December 2020, (iv) 'World Amazing Building' on 31 December 2020, (v) 'Mumbai Airport Construction' on 29 December 2020, (vi) 'Motivational Speech' on 12 December 2020 and 22 December 2020 and a display of technical information on 'Air Conditioners' on 11 December 2020.

AISSMS Polytechnic (Maharashtra)

The IEI Students' Chapter of Electronics and Telecommunication Department of AISSMS Polytechnic organized a virtual industrial visit on 'Automate Engineering' on 29 January 2021.



Screenshot of the virtual industrial visit

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>

Announcement

Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

The IEI Students' Chapter of Civil Engineering Department of Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex is going to organize their 2nd International Conference SEES 2021 on the topic 'Sustainable Environmental Engineering and Science' on 27-28, August 2021.



The poster features logos for DSEC, JIS Group, and several international partners at the top. The main text is centered and reads: 'DR. SUDHIR CHANDRA SUR INSTITUTE OF TECHNOLOGY & SPORTS COMPLEX INTERNATIONAL CONFERENCE ON SUSTAINABLE ENVIRONMENTAL ENGINEERING AND SCIENCE (SEES- 2021) 27 & 28 August 2021 by Department of Civil Engineering Springer In Association with University of Southern Queensland Australia Amrita Vishwa Vidyapeetham India Nihon University Japan IWK Institut für Werkstofftechnik und Kunststoffverarbeitung Switzerland'.

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)40106269/ (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

Best Students' Chapter Award

The Institution every year awards the Best/ Second Best/ Third Best Students' Chapter on the basis of their technical activities organised regularly throughout the year.

We are pleased to announce the following Chapters have been finalized as the the Best/ Second Best/ Third Best Students' Chapters for the session 2019-20.

Engineering College Students' Chapter Awards

Best Engineering College Students' Chapter	:	AISSMS College of Engineering, Pune (Department of Electronics and Telecommunication Engineering)
Second Best Engineering College Students' Chapter	:	Pune Marathwada Mitra Mandal's College of Engineering (Department of Mechanical Engineering)
Third Best Engineering College Students' Chapter	:	Mepco Schlenk Engg College Sivakasi (Department of Computer Science and Engineering)

Polytechnic Students' Chapter Awards

Best Polytechnic Students' Chapter	:	Thiagarajar Polytechnic College, Salem
Second Best Polytechnic Students' Chapter	:	PAC Ramasamy Raja Polytechnic College
Third Best Polytechnic Students' Chapter	:	Arasan Ganesan Polytechnic College, Sivakasi

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.

