

Newsletter

Students' Chapters

December
2020

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ALL INDIA STUDENTS' COMMITTEE (AISC) Session 2019-20

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Membership Department

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

Also visit us





Dr Enti Ranga Reddy, FIE

Chairman,
All India Students' Committee (AISC)

Climate change is one of the most momentous problems the world is facing and has evoked in us the alarm for extinction of several species and equitable threat to our livelihood. However, role of engineers to slower down the climate change remains indispensable. Climate change mainly occurs due to emission of green gases and increased solar radiation.

The green house gases still remain the byproduct of many industry and household machineries. Renewable energy is the most popular and widely used alternatives to reduce green house gases. However, one shortcoming of renewable energy is that its source is not continuously available, requiring alternative backups to compensate power shortages. Combined heat and power plant, which use waste heat from electricity production to provide space heating or hot water for local buildings, may also help to decrease the undesired gases. Nuclear power, though intimidating may act as good alternative. The solutions are not only limited to power consumption, civil engineers too have important contribution towards controlling climate change. Use of green materials in construction is a way to reduce green gas. The 'three Rs' ie, reduce, reuse and recycle is the most effective mantra to fight the climate change. Reduce of using impenetrable area for construction, land eco-system destruction, reuse of already developed sites, existing farm pond, road or parking lot and recycling of storm water, wastes and building materials such as asphalt pavement, fly ash replacement in concrete and recycled rubber and plastic appurtenance are some of the means that can be implemented. Planning for sustainable site, proper layout, landscape design, mass grading a development or building site are a few measures taken up by engineers are effective ways to create sustainable designs. New schemes are also evolving with the increased demand of various methods that include solar radiation management by increasing the radiation of sunlight or even by human engineering. With the invention of new strategies or with the development of existing ones, engineers of all discipline together should put their maximum effort to slower down the climate change and make the world habitable for next generations.

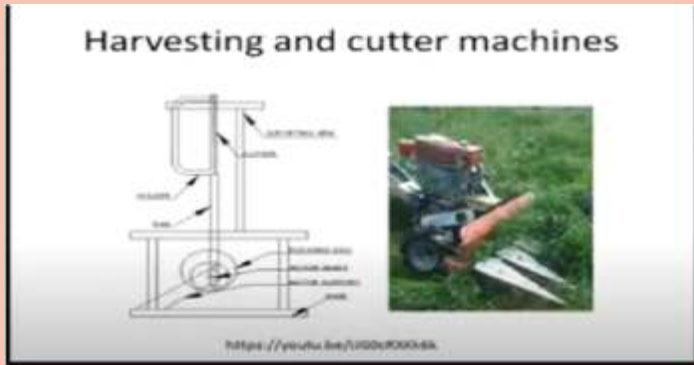
A discussion about controlling climate change remains incomplete without mentioning the Paris Agreement within the United Nations Framework Convention on Climate Change (UNFCCC) that deals with greenhouse-gas-emissions and its mitigation, signed in 2016 by representatives of 196 countries.

I, as a Chairman of All India Students' Committee of The Institution of Engineers (India) request the future engineers as well as the experts to consider global warming earnestly and churn all your engineering skills to alleviate the impact of climate change.

Reports from Engineering College Students' Chapter

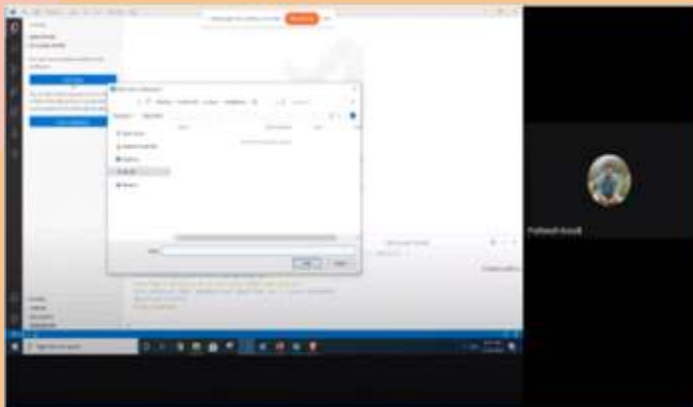
Ramco Institute of Technology (Tamil Nadu)

The IEI Students' Chapter of Mechanical Engineering Department of Ramco Institute of Technology conducted a one day online webinar on "Importance of Patent & Innovation in Engineering" on 17 October 2020.

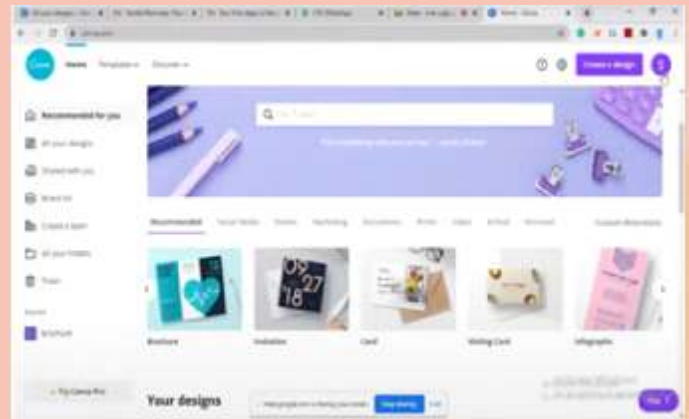


Screenshot of the webinar

The Chapter also conducted three one -day online workshops on (i) "Basic App Development using Flutter" on 25 October 2020, (ii) "Poster Design using CANVA" on 8 November 2020 and (iii) "Introduction to Operations Research in Engineering" on 22 November 2020.



Screen-shot of the workshop on 25 October 2020



Screen-shot of the workshop on 'Poster Design using CANVA'



Screen-shot of the workshop on 'Introduction to Operations Research in Engineering'

The Chapter further organised two online technical quizzes on "Metrology & Measurements" on 27 October 2020 and on "Fundamentals of Robotics" on 13 November 2020 and two aptitude quizzes on 3 November 2020 on the topic "Chain Rule" and on 18 November 2020 on the topic "HCF & LCM".

The IEI Students' Chapter of Computer Science and Engineering Department of Ramco Institute of Technology organized two webinar on "Beginners Guide" and "Aptitude Quiz" on 4 October 2020.

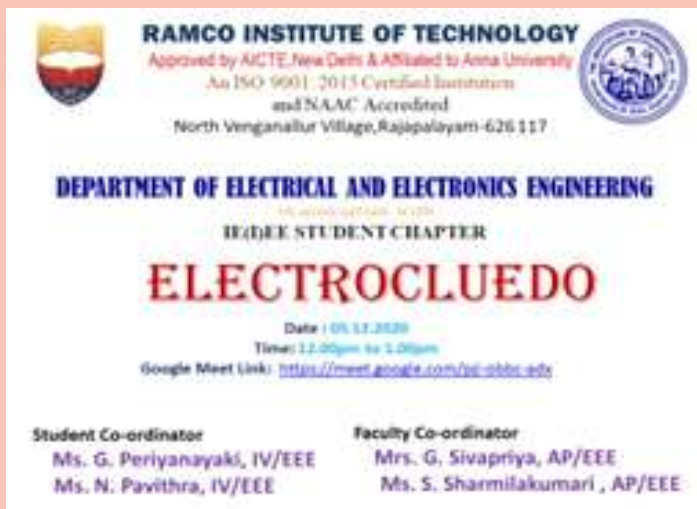


Flyer of the webinar

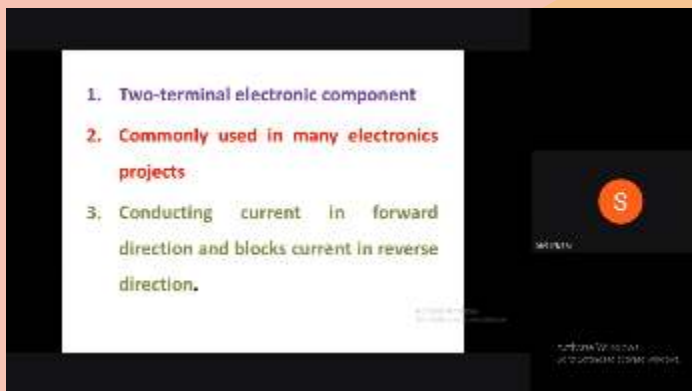
Reports from Engineering College Students' Chapter

The Chapter also organized two technical quizzes namely "Techno World" on 10 October 2020 and "Technical Quiz on Java" on 18 October 2020, a "Treasure Hunt" on 24 October 2020 and Guest Lecture on "Nuances of Resume Writing" on 30 October 2020.

The IEI Students' Chapter of Department of Electrical and Electronics Engineering of Ramco Institute of Technology conducted an online technical event on "Electrocluedo" during 5 December 2020.



Flyer of the technical event



Screen-shot of the technical event

The Chapter also conducted a poster competition on "History of Components" on 14 November 2020 and conducted a technical film show on 21 November 2020 on "Nikola Tesla vs Thomas Edison". The Chapter further organized two online technical quizzes on "Circuit Theory" on 24 October 2020 and "Power Semiconductor Devices" on 11 December 2020.

Punjabi University (Punjab)

The IEI Students' Chapter of Department of Computer Science and Engineering of Punjabi University organized a two day competition

based on computer programming languages C, C++, Java and Python to titled "Coding and Gaming Vibes".



Screen-shot. view of the dias and flyer of the event

Dr Sudhir Chandra Sur Institute of Technology and Sports Complex (West Bengal)

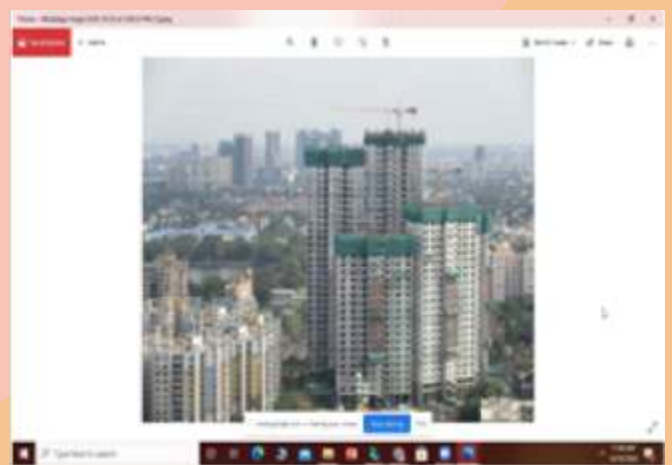
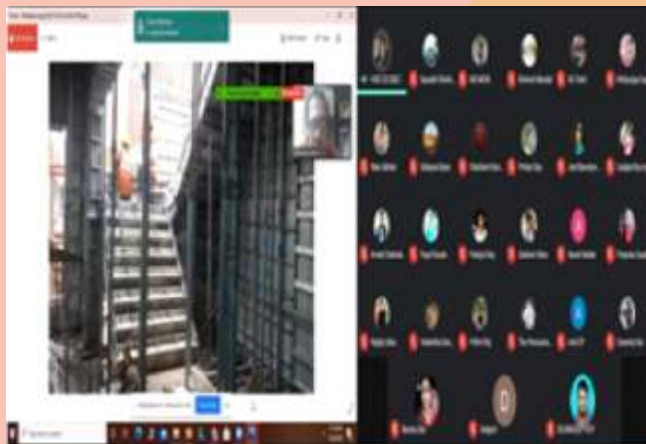
The IEI Students' Chapter of Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex organized the celebration of Rashtriya Ekta Diwas (National Unity Day) on 31st October 2020.



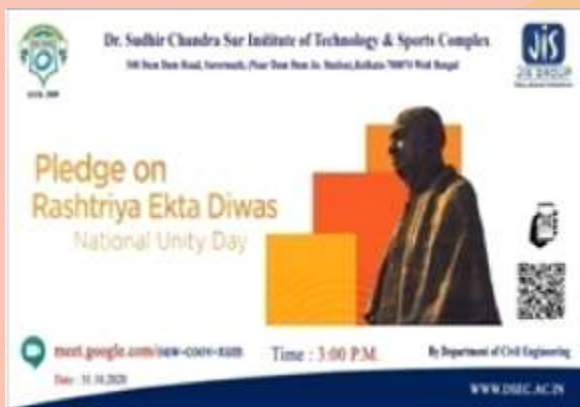
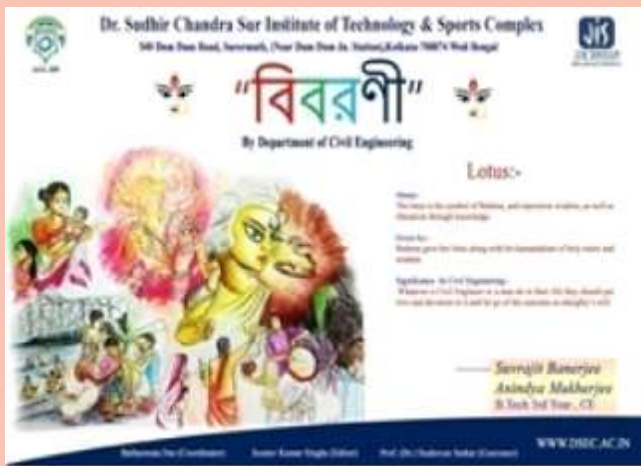
Screenshot of the event

Reports from Engineering College Students' Chapter

The IEI Students' Chapter of Civil Engineering Department of Dr Sudhir Chandra Sur Institute of Technology and Sports Complex, organized the following activities in the month of October 2020.



Reports from Engineering College Students' Chapter



Flyer & Screen-shot of the event

BVM Engineering College (Gujarat)

The IEI Students' Chapter of B V M Engineering College organized a webinar on "Importance of Interface between Geotechnical and Structural Engineering" on 24 October 2020.



Screen-shot of the webinar

Marian Engineering College (Kerala)

The IEI Students' Chapter of Civil Engineering Department of Marian Engineering College organized webinars on namely (i) "Career Opportunities for Civil Engineers in Public Sector" on 6 August 2020, (ii) "Importance of DGPS in Construction Engineering" on 10 August 2020 (iii) Era of Digital Construction – BIM" on 14 August 2020 (iv) "Project Life Cycle" on 16 October 2020 (v) "Academic Projects with BIM" on 23 October 2020 (vi) "Urban Forest Management and Restoration using Geospatial Technologies" on 30 October 2020 and (vii) "Modern Trends in Design and Construction of Air Traffic Control Towers and Cabins" on 31 October 2020.



Speaker during the webinar on "Career Opportunities for Civil Engineers in Public Sector"



Speaker during the webinar on "Importance of DGPS in Construction Engineering"

Reports from Engineering College Students' Chapter



Speaker during the webinar on "Project Life Cycle"



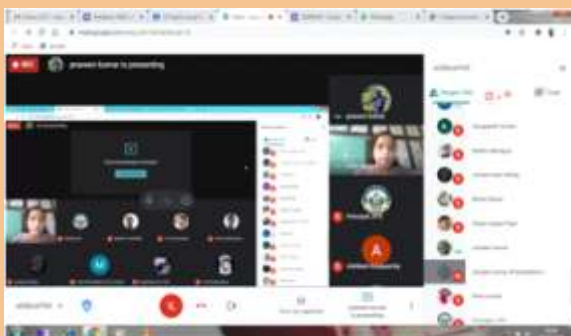
Speaker during the webinar on "Urban Forest Management and Restoration using Geospatial Technologies"



Speaker during the webinar on "Modern Trends in Design and Construction of Air Traffic Control Towers and Cabins"

Jyothishmathi Institute of Technology and Science (Telangana)

The IEI Students Chapter of Department of Mechanical Engineering of Jyothishmathi Institute of Technology and Science organized online technical webinar on "Performance and Emission Characteristics of CI Engine Using Nano Additive Biodiesel Blends with Exhaust Gas Recirculation & Quot" on 19 October 2020.



Screen-shot of the webinar

The IEI Students Chapter of Department of Electrical and Electronics Engineering of Jyothishmathi Institute of Technology and Science organized an online technical awareness webinar on "National Education Policy and Internalization of Education – 2020" on 6 November 2020.



Screen-shot of the webinar

L D College of Engineering (Gujarat)

The IEI Students' Chapter of Civil Engineering Department of L D College of Engineering organized a webinar on "Site Practices and Construction Management" on 23 October 2020.



Reports from Engineering College Students' Chapter



Screen-shot of the webinar

The Chapter also organized a webinar on "Smart Cities" on 3 October 2020.



Screen-shot of the webinar

The IEI Students' Chapter of Electrical and Electronics Engineering Department of Saintgits College of Engineering organized a webinar on "A Glimpse of 2020 Nobel Prize in Chemistry" on 5 November 2020.



Screen-shot of the webinar



Screen-shot of the webinar

The IEI Students' Chapter of Department of Chemical Engineering of Saintgits College of Engineering organized a competition on the theme "Recycle and Reuse Challenge" during 20-21 October 2020.

Cusrow Wadia Institute of Technology (Maharashtra)

The IEI Students' Chapter of Electronics and Telecommunication Department of Cusrow Wadia Institute of Technology organized a debate competition "Tug of Tech" on 24 October 2020.



Screen-shot of the debate competition

Saintgits College of Engineering (Kerala)

The IEI Students' Chapter of Civil Engineering Department of Saintgits College of Engineering organized a webinar on "Prospects of a Graduate Engineer" on 30 October 2020.



Reports from Engineering College Students' Chapter

The IEI Students' Chapter also conducted three online technical quizzes on "Semiconductor Devices and Circuits" on 31 October 2020, "Microcontrollers" on 7 November 2020 and "Entrepreneurship Development Program" on 9 November 2020.

Government Engineering College Ajmer (Rajasthan)

The IEI Students' Chapter of Electrical Engineering Department of Government Engineering College was inaugurated on 6 November 2020 followed by expert lecture on the topic "Energy Auditing and Smart Meter".



Screen-shot of the inaugural program

BNM Institute of Technology (Karnataka)

The IEI Students' Chapter of Department of Information Science & Engineering of BNM Institute of Technology organized a workshop on "Use of Latex for Technical Writing" on 17 October 2020 and 24 October 2020.



Screen-shot of the workshop

The IEI Students' Chapter of Electrical & Electronics Engineering of BNM Institute of Technology organized a two-day webinar on "Research & Advancement in Electric Vehicle Technology" during 12- 13 November 2020.

Vishwanathrao Deshpande Institute of Technology (Karnataka)

The IEI Students' Chapter of Department of Electronics and Communication Engineering of Vishwanathrao Deshpande Institute of Technology organized a webinar on "Current Technological Trends in IT and Interview Tips" on 7 November 2020.

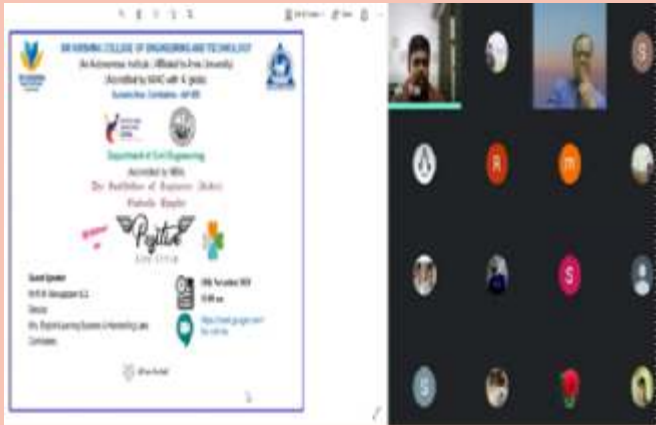


Screen-shot of the Webinar

Sri Krishna College of Engineering and Technology (Tamil Nadu)

The IEI Students' Chapter of Civil Engineering Department of Sri Krishna College of Engineering and Technology organized a webinar on "Positive Lifestyle" in the month of November, 2020.

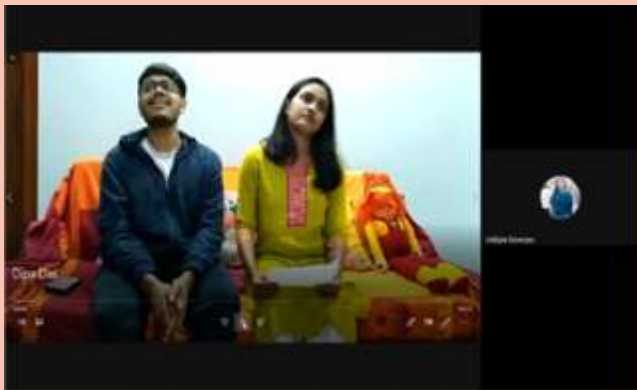
Reports from Engineering College Students' Chapter



Screen-shot of the Webinar

Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex (West Bengal)

The IEI Students' Chapter of Department of Civil Engineering of Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex organized a seminar on "Scope of Research in Civil Engineering" on 25 November 2020. The Chapter also organized online "Bhajan Sandhya" paying tribute to Guru Nanak on 30 November 2020.



Screen-shot of the event

NSS College of Engineering (Kerala)

The IEI Students' Chapter of Mechanical Engineering Department of NSS College of Engineering conducted an online webinar on "Skills for Leadership" on 16 November 2020.



Screen-shot of the Webinar

AISSMS Institute of Information Technology (Maharashtra)

The IEI Students' Chapter of AISSMS IOIT, Electrical Engineering Department organized an online webinar on women empowerment "Sakhi" on 22 October 2020.



Flyer of the webinar



Screen-shot of the Webinar

RCC Institute of Information Technology (West Bengal)

The Electronics and Communication Engineering Department of IEI Students' Chapter of RCC Institute of Information Technology organized a webinar on 28 November 2020 on "Disrupting Everything on the Internet of Things".



Reports from Engineering College Students' Chapter



Screen-shot of the Webinar

Manipal University Jaipur (Rajasthan)

The Mechanical Engineering Department of IEI Students' Chapter of Manipal University Jaipur organized a webinar on 8 November 2020 on "Future Scope of Startups in India".



Screen-shot of the Webinar

Gyanmanjari Institute of Technology

The IEI Students' Chapter of Mechanical Engineering Department of Gyanmanjari Institute of Technology organized one day workshop on "Leveraging of Cloud Based Technology in CAD" on 3 December 2020.

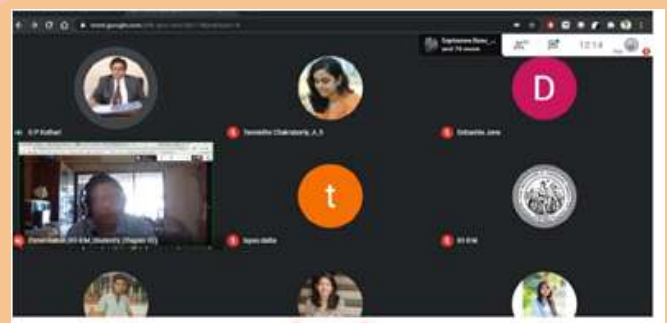
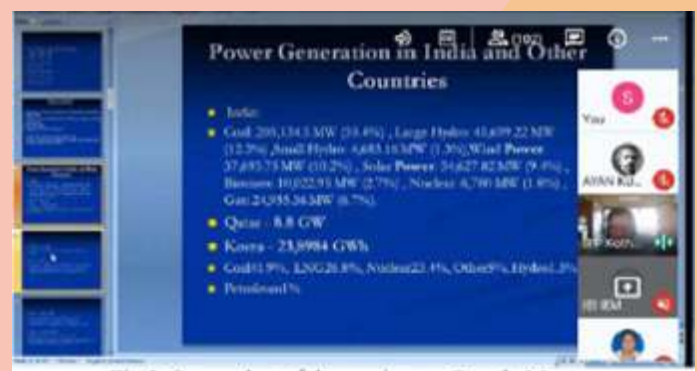


Screen-shot of the workshop

Institute of Engineering & Management (West Bengal)

The Electrical Engineering Department of IEI Students' Chapter of Institute of Engineering & Management conducted the second season of an online aptitude and technical contest for its members 'Aptech - 2020' from 18- 21 November 2020.

The Chapter also organised a webinar on "Energy and Environment Problems facing the third world and their probable solutions for sustainable development and poverty alleviation" on 11 November 2020.



Flyer of the webinar

The Chapter also organised a three-day workshop on "Designing and Development of OCR (Optical Character Recognition) Android App" during 28-30 August 2020.



Flyer of the workshop

Reports from Engineering College Students' Chapter

PACE Institute of Technology & Sciences (Andhra Pradesh)

The IEI Students' Chapter of Department of Electrical and Electronics Engineering of PACE Institute of Technology & Sciences conducted Technical Quiz on 20 November 2020.

Pragati Engineering College (Andhra Pradesh)

The IEI Students' Chapter of Department of Electrical and Electronics Engineering of Pragati Engineering College organized one day awareness program on "Electrical Energy Conservation" on 16 December 2020.



Flyer of the event

The Chapter conducted an essay writing competition on the theme "Need of Education in India" on 11 November 2020 and conducted an online elocution competition on the theme "Learning for People, Planet, Prosperity and Peace" on 15 October 2020.



Flyer and screenshot of the elocution competition

Narula Institute of Technology (West Bengal)

The IEI Students' Chapter of Electrical Engineering Department of Narula Institute of Technology organized a poster making and project display competition on 14 October 2020.



Flyer of the event

Marian Engineering College (Kerala)

The IEI Students' Chapter of Civil Engineering Department of Marian Engineering College organized a webinar on 'Feasibility and Detailed Project Report Preparation' on 10 December 2020.



Screen-shot of the speaker

The Chapter also conducted another webinar on 'Quality Assurance and Control of Concrete for Design and Durability Requirements' on 17 December 2020.



Screen-shot of the speaker

Reports from Polytechnic College Students' Chapter

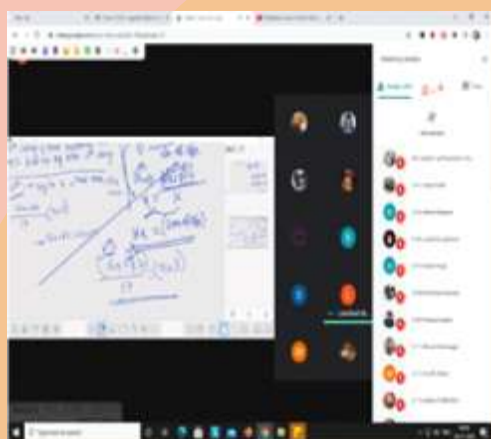
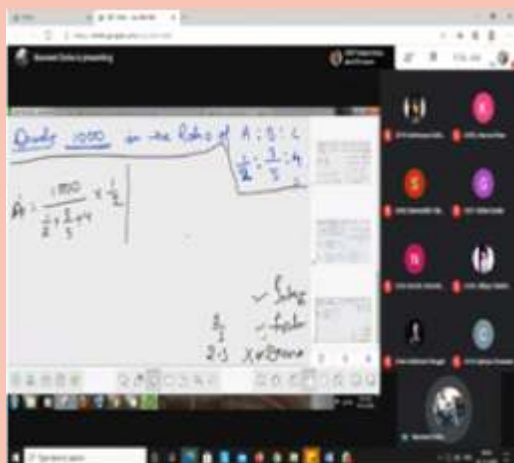
AISSMS's Polytechnic (Maharashtra)

The IEI Students' Chapter of AISSMS's Polytechnic organized a soft skill and aptitude training program during 24- 31 October 2020.



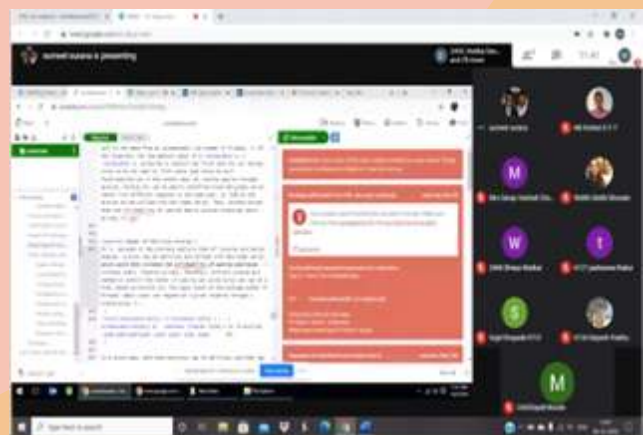
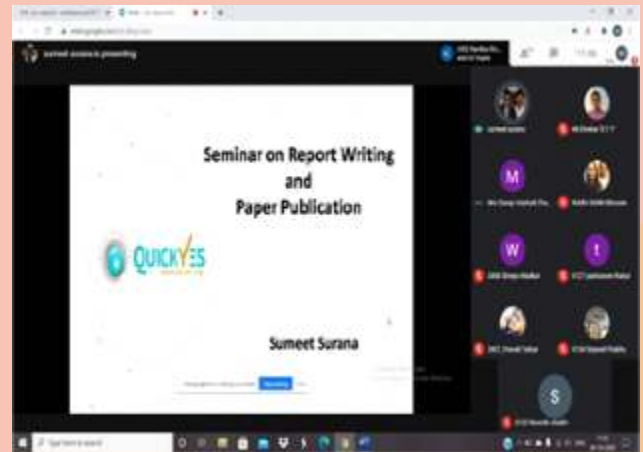
Screen-shot of aptitude training program

The Chapter arranged an aptitude training program during 2-7 November 2020.



Screen-shot of aptitude training program

The Chapter also organized a webinar on "Report Writing and Paper Publication for Capstone Project" on 8 November 2020 and an online workshop on "Relational Database Management System" from 22-24 December 2020.



Screen-shots of webinar

Government Polytechnic, Karwar (Karnataka)

The IEI Students' Chapter of Govt. Polytechnic celebrated Engineers Day on 15 September 2020.



View of the participants during the celebration

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)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.
- 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 Headquarters of The Institution of Engineers (India) alongwith the payment.

For details please write 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.

