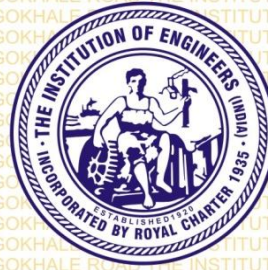


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741235/JISK/EC

# The Institution of Engineers (India)



is pleased to establish Students' Chapter at the

Department of Electronics & Communication Engineering

**JIS College of Engineering**

Kalyani, West Bengal

Issued on : 04 Dec 2023

Valid up to : 03 Dec 2024

SECRETARY & DIRECTOR GENERAL





## **Report on the Third Regional Conclave of Students' Chapters (Eastern Region) on Green Sustainability Development in Engineering & Technology**

*Date: April 5, 2024*

*Venue: JIS College of Engineering, Kalyani*

The Third Regional Conclave of Students' Chapters (Eastern Region), organized by JIS College of Engineering in collaboration with The Institution of Engineers (India), focused on the theme of "Green Sustainability Development in Engineering & Technology." The event aimed to integrate environmentally conscious practices and principles into the engineering and technology fields to promote long-term sustainability and minimize negative impacts on the environment.

The event commenced with a ceremonial lamp lighting ceremony, symbolizing enlightenment, and progress. Invited delegates were felicitated in traditional manner. Welcome address was delivered by Prof. (Dr.) Partha Sarkar, Principal of JIS College of Engineering. He highlighted the areas of research on Green Sustainability Development in Engineering & Technology. Dr. Sila Singh Ghosh, VP-CR, JIS Group, emphasized the importance of the conclave theme followed by addresses from IEI, WBSC delegates. Finally Chief Guest, Prof. (Dr.) Angsuman Sarkar, Professor & Head of Electronics and Communication Engineering, Kalyani Government Engineering College, West Bengal, shared insightful thoughts on the theme.

The conclave witnessed the presentation of 35 Research Papers out of 50+ submission, 5 Posters, and 19 Engineering Project Models, highlighting innovative approaches towards green sustainability development in engineering and technology. Best Paper Award received by Akash Bhowmick, BTech Electrical Engineering, Guru Nanak Institute of Technology, Chayan Chakraborty, Electrical Engineering and JIS College of Engineering, Sriparna Mallick, Electrical Engineering, JIS College of Engineering, Bishaljit Paul- Electrical Engineering Department, Narula Institute of Technology, Tirtha Chatterjee Civil Engineering, Narula Institute of Technology, Bibek Kumar Shaw, Electrical Engineering, JIS College of Engineering. Poster Award positions secured are, 1<sup>st</sup>: Sougata Ghosh, Sushovan Sarkar, Electrical Engineering Department, JIS College of Engineering, 2<sup>nd</sup>: Dibakar Roy, Gopal Shil, Electrical Engineering Department, JIS College of Engineering, 3<sup>rd</sup>: Arnab Das, Anamitra Mondal, Information technology, JIS College of Engineering. Engineering Project Model Competition award positions are, joint 1<sup>st</sup> position secured by Sayani Pal and her team members and Sagar Shaw and his team members of Computer science and engineering (AI&ML) department JISCE, 2<sup>nd</sup>: Robin Mahanta and team members of Electronics and Communications Engineering department, JISCE, joint 3<sup>rd</sup> position secured by Turja Mondal and his team members of Electronics and Communications Engineering department, JISCE and Soham Dhar and his team members of Electronics and Communications Engineering department, JISCE.

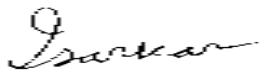
In the afternoon, a thematic panel discussion session was held, wherein industry experts like Mr. Avijit Chatterjee, Principal Engineer Design, Global Foundries, and Mr. Kaustav Dutta, Service Delivery Manager, Sap & Digital Transformation, shared their perspectives and insights.

The conclave concluded with insightful discussions and the distribution of certificates to participants. Organizing secretary Professor (Dr.) Indranath Sarkar, Dept. of ECE, JISCE, Kalyani, conveyed his gratitude to all attendees and contributors. The event provided a platform for knowledge exchange, networking, and fostering collaboration towards sustainable development in engineering and technology.

The success of the conclave was made possible by the collaborative efforts of all organizers, participants, speakers, and delegates. Special thanks to the organizing assistant secretary (Jt.) Ms. Thia Paul, Dr. Maitrayee Chakrabarty, and the entire organizing team for their dedication and hard work in ensuring a fruitful and memorable event.

The Third Regional Conclave of Students' Chapters (Eastern Region) on Green Sustainability Development in Engineering & Technology served as a significant platform for promoting environmental consciousness and fostering innovation towards sustainable engineering practices. The insights gained and discussions held during the conclave are expected to contribute positively to the ongoing efforts towards a greener and more sustainable future.

Report prepared by



Prof. (Dr.) Indranath Sarkar,

Dept of ECE, JIS College of Engineering, Kalyani



Figure 1: Inaugural Session



Figure 2: Students attending the Conclave



Figure 3: Faculty members and participants from other institute attended the Conclave





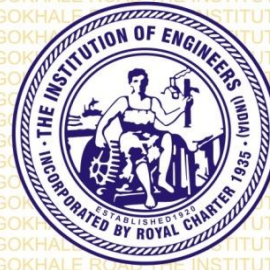
Figure 4: Delegates on the dias



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# The Institution of Engineers (India)



is pleased to establish Students' Chapter at the

Department of Electronics & Communication Engineering

## JIS College of Engineering

### Kalyani, West Bengal

Issued on : 18 Jan 2023

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SECRETARY & DIRECTOR GENERAL





## Report: IEI Student Chapter Activity Innovation Exhibition 2022 held on 17th November 2022

On 17.11.2022 IEI Student chapters of Electronics and Communication Engineering, Electrical Engineering, and Mechanical Engineering, JIS College of Engineering, Kalyani have organised the IEI Student Chapter Activity Innovation Exhibition 2022 in collaboration with IIC, IQAC. Dr S.M. Ali, Director General, Solar Energy Society of India, New Delhi has joined the program as judge for evaluation on four categorical awards. Dr. Partha Sarkar, Principal delivered the inaugural speech followed by the address from Dr. Ali. Convener Dr. Indranath Sarkar brief the event and encouraged participants enthusiasm. About Twenty-Seven project team participated from almost all engineering departments. Best innovative project awarded to the team lead by student member Utsab Ray of BME department, Best market ready project award received by the team lead by student member Ankita Sharma from ME department. Best business aspect project award received jointly by the two teams from ECE department lead by student members Sneha Singh and Ritesh Sarkar respectively. Best societal support project award received by the team from EE department lead by student member Tania Singh.





GPS Map Camera

Kolkata, West Bengal, India

Main Building, JIS Rd, A 5, Block A5, Kolkata,  
West Bengal 741235, India

Lat 22.959737°

Long 88.447352°

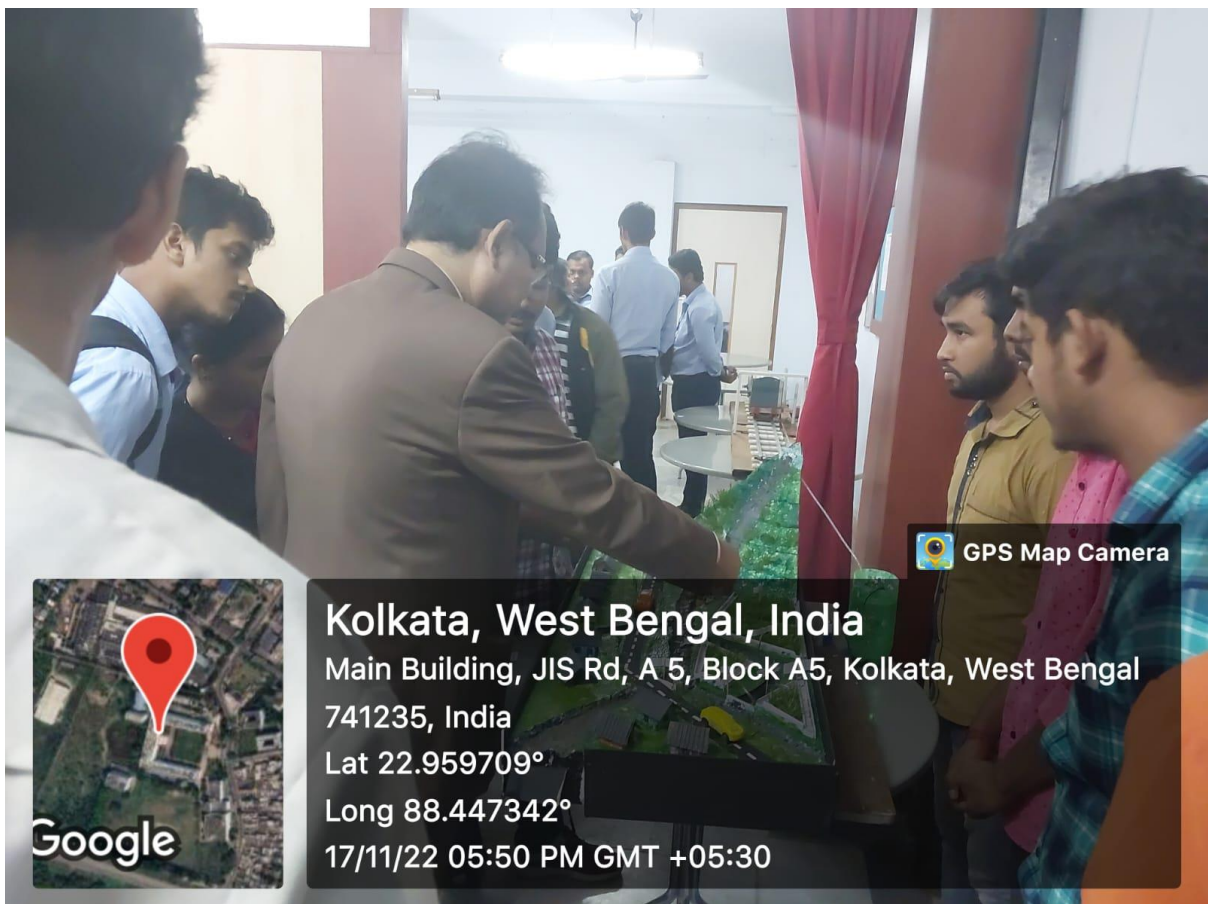
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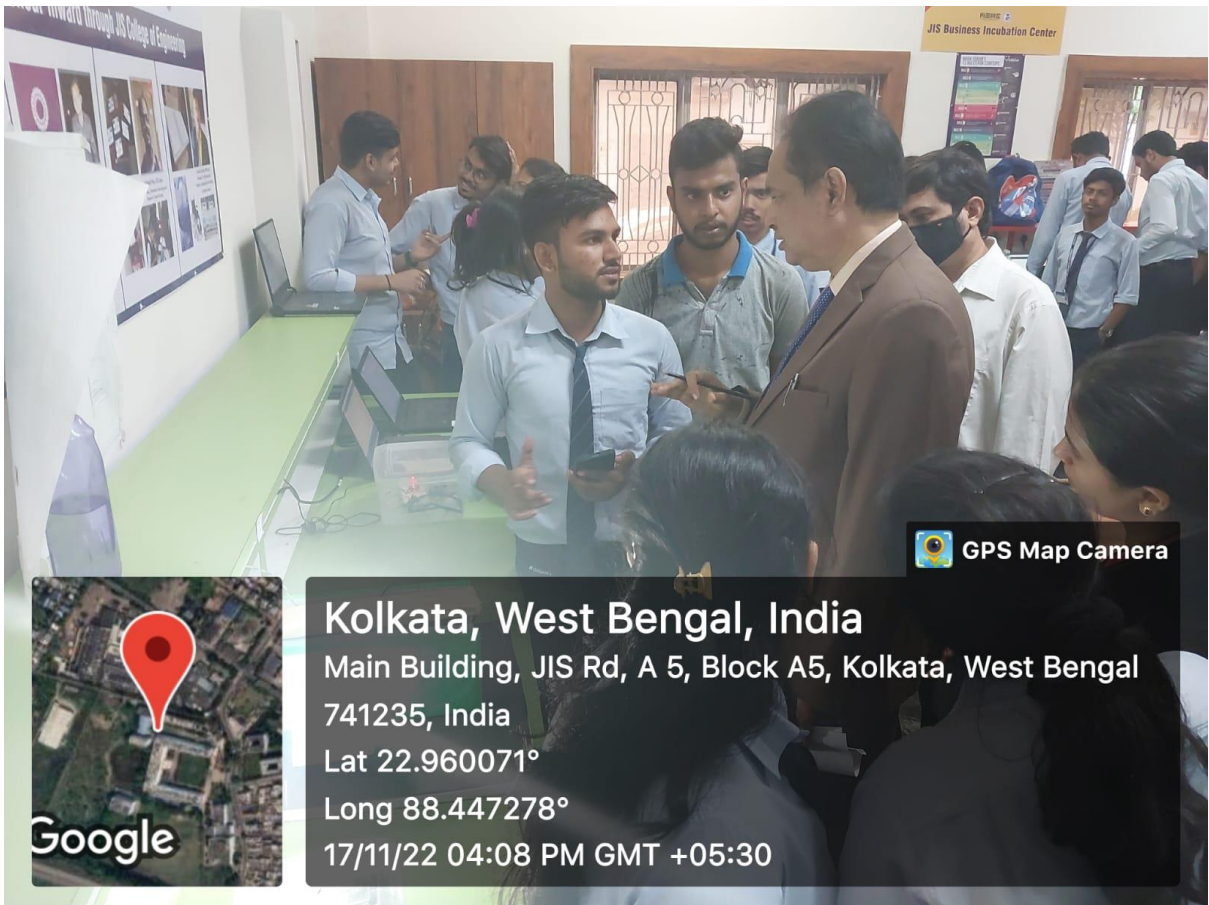










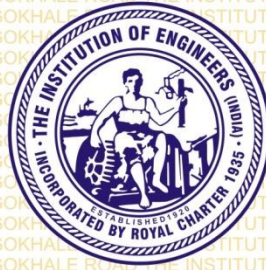




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# The Institution of Engineers (India)



is pleased to establish Students' Chapter at the


Department of Electronics & Communication Engineering

**JIS College of Engineering**  
**Kalyani, West Bengal**

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SECRETARY & DIRECTOR GENERAL



# **E-RRADICATE 2020 - COVID-19 Innovation Challenge, 10<sup>th</sup> & 11<sup>th</sup> April 2020, at ECE, JIS College of Engineering (Autonomous), Kalyani**



## **Report**

Initiative taken at the outset of lockdown period by the members of IEI students' chapter, Electronics and Communication Engineering department, JISCE to organize a students' idea competition E-RRADICATE 2020 - COVID-19 Innovation Challenge during 10th and 11th April, 2020, 4PM onwards through online digital meeting platform. Main objective of the event is to trace out possible solutions to the listed problems of COVID-19.

During its inaugural session Prof. (Dr.) Partha Sarkar, Principal, JIS College of Engineering, Kalyani has delivered the motivational welcome address. Dr. Biswarup Neogi, HoD, ECE, JIS College of Engineering, Kalyani has addressed about the theme of the innovation challenge to the participants. The Chief Guest of the program Dr. Syed Majid Ali, Director Membership, The Institution of Engineers India has mentioned about the importance of innovations to fight against the pandemic COVID-19. Mr. Zahid Hussain, Editorial Assistant, IEI, Kolkata has also joined the common discussion with participants.

Students from various states such as Maharastra, Telengana, Manipur and also from various state institutes outside JIS Group have participated to share solution to the listed problems on COVID-19.

Thanks to the group of judges internal and external to the organizing institute for devoting their valuable times to evaluate and synchronize through online marks submission platform. We are very much thankful for the same to Dr. Kaushik Mandal, Institute of Radio Physics and Electronics, University of Calcutta; Dr. Partha Pratim Sarkar, Department Of Engineering and Technological Studies, University Of Kalyani, Dr. Kaushik Sarkar, Narula Institute of Technology (Autonomous), MAKAUT, Dr. Rajendra Ghosh Dept of Electronics, Vidyasagar University., Dr. Sushovan Sarkar Dr Sudhir Chandra Sur Degree Engineering College, MAKAUT, Dr. Saradindu Panda Narula Institute of Technology (Autonomous), MAKAUT, Dr. Surajit Bari Narula Institute of Technology (Autonomous), MAKAUT, Dr. Sunipa Roy Guru Nanak Institute of Technology (Autonomous), MAKAUT, Dr. Sandhya Pattanayak Narula Institute of Technology (Autonomous), MAKAUT, Dr Anilesh Dey Narula Institute of Technology (Autonomous), MAKAUT, Dr. Sabyasachi Sen JIS College of engineering (Autonomous), MAKAUT, Dr. Papun biswas JIS College of engineering (Autonomous), MAKAUT, Dr. Sandip Bag JIS College of engineering (Autonomous), MAKAUT, Dr. Dharmpal Singh JIS College of engineering (Autonomous), MAKAUT, Dr. Sandip Ghosh JIS College of engineering (Autonomous), MAKAUT, Dr. Karabi Ganguly JIS College of engineering (Autonomous), MAKAUT, Dr. Trina Dutta JIS College of engineering (Autonomous), MAKAUT, Dr. Debasish Das JIS College of engineering (Autonomous), MAKAUT.

For the 2 days of the program participants have unveiled their innovative thought through online presentation followed by question and answers with judges and other participants.

The program host Imran Roshan and his team members Anusweta Roy, Arnab Basu, Ayush Khamrui, Basab Kiran Saha have shown wonderful coordination throughout the program by solving queries to judges, answering queries and solving technical difficulties to participants. Top 10 positions declared as a result of this competition with many joint occupancy found.

The major outcome of this innovation challenge COVID-19 is the formation of research team to fight against the pandemic.

Glimpses of the program enclosed herewith.

**E-RRADICATE 2020 - COVID-19 Innovation Challenge,  
10<sup>th</sup> & 11<sup>th</sup> April 2020, at ECE, JIS College of Engineering (Autonomous), Kalyani**



**Prof. (Dr.) Partha Sarkar,  
Principal, JIS College of  
Engineering, Kalyani**



**Dr. Biswarup Neogi,  
HoD, ECE, JIS College  
of Engineering, Kalyani**

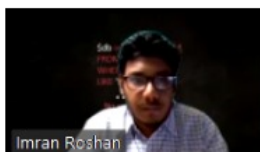


**Dr. S M Ali, Director  
Membership, The Institution  
of Engineers India**

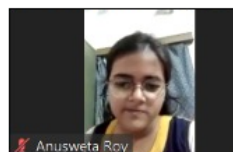


**Editorial Assistant, IEI,  
Kolkata**

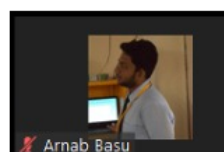
**Organizing Members,  
Student Chapter, IEI, ECE, JISCE, Kalyani**



**Imran Roshan, Coordinator,  
IEI Student Chapter, ECE  
JISCE, Kalyani**



**Anusweta Roy,  
Member, IEI Student  
Chapter, ECE JISCE,  
Kalyani**



**Arnab Basu,  
Member, IEI  
Student Chapter,  
ECE JISCE, Kalyani**



**Ayush Khamrui,  
Member, IEI Student  
Chapter, ECE JISCE,  
Kalyani**



**Basab Kiran  
Saha, Member,  
IEI Student  
Chapter, ECE  
JISCE, Kalyani**

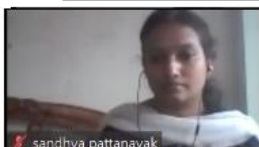


**E-RRADICATE 2020 - COVID-19 Innovation Challenge,  
10<sup>th</sup> & 11<sup>th</sup> April 2020, at ECE, JIS College of Engineering (Autonomous), Kalyani**

**Judges Panel**



**Dr. Saradindu Panda**



**Dr. Sandhya Pattanayak**



**Dr. Anilesh Dey**



**Dr. Surajit Bari**



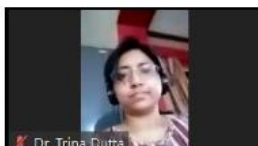
**Dr. Karabi Ganguly**



**Dr. Kaushik Sarkar**



**Dr. Sandip Bag**



**Dr. Trina Dutta**



**Dr. Kaushik Mandal**



**Dr. Sushovan Sarkar**



**Dr. Sabyasachi Sen, Dean R&D  
JISCE, Kalyani**



**Dr. Papun biswas, Dean Innovative  
learnings JISCE, Kalyani**



**10<sup>th</sup> & 11<sup>th</sup> April 2020, at ECE, JIS College of Engineering (Autonomous), Kalyani**

The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide titled "MARKETING AND PERSPECTIVES". The slide content includes a diagram with the following components:

- Marketing** (top center box)
- Business** (top right box)
- Marketing Strategy** (middle left box)
- Marketing Mix** (middle right box)
- Marketing Research** (bottom left box)
- Marketing Communication** (bottom right box)

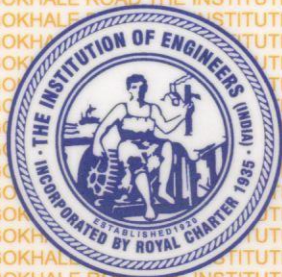
The right side of the screen shows a grid of 18 participant video feeds. The bottom status bar indicates "Total non-video participants: 5".



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# The Institution of Engineers (India)



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Department of Mechanical Engineering

**JIS College of Engineering**

**Kalyani, West Bengal**

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**SECRETARY & DIRECTOR GENERAL**





# Webinars Organised by:

Department of Mechanical Engineering  
JIS College of Engineering

In association with  
IEI STUDENTS CHAPTER

association with  
IEI STUDENTS CHAPTER

**Webinar  
on  
Ignition Systems of IC Engine:  
Basics and Advancement**

Organised by:  
Department of Mechanical Engineering  
JIS College of Engineering

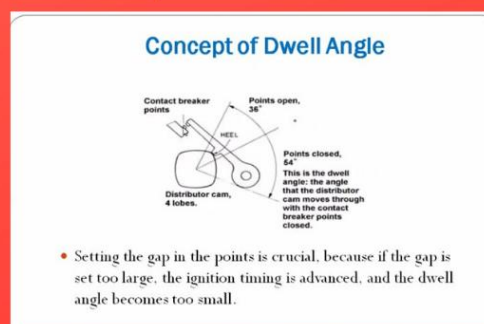
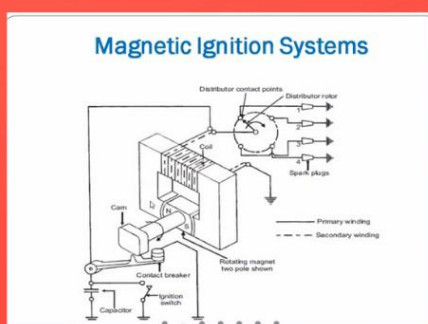
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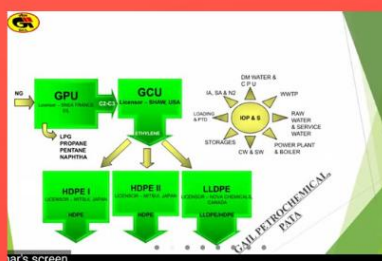
Speaker  
  
Dr. Pradip Mondal  
Assistant Professor,  
Dept. of Mechanical Engineering  
NIT Sikkim

www.jiscollege.ac.in | M: +91 9432011490

**Ignition Systems of IC Engine: Basics  
& Advancement**

By  
Dr. Pradip Mondal  
Dept. Of Mechanical Engineering  
NIT Sikkim







## Details of the Co-ordinators and Co-Coordinator for the Institution of Engineers (India) (IEI) Student Chapter, Kolkata, India

Faculty Co-ordinators	Student Co-ordinators
Dr Bidhan Malakar E-mail: <a href="mailto:bidhan.malakar@jiscollge.ac.in">bidhan.malakar@jiscollge.ac.in</a> Mobile No. 9101026523	Mr. Deb Sekhar Roy E-mail: <a href="mailto:dsroy.96.00@gmail.com">dsroy.96.00@gmail.com</a> Mobile No. 9477851425
Dr Mayur Barman E-mail: <a href="mailto:mayur.barman@jiscollge.ac.in">mayur.barman@jiscollge.ac.in</a> Mobile No. 6002980530	Mr. Debajyoti Sengupta E-mail: <a href="mailto:debajyotisengupta98@gmail.com">debajyotisengupta98@gmail.com</a> Mobile No. 8697893264
Co-Coordinator Mr. Debashis Chakraborty E-mail: <a href="mailto:dckly1976@gmail.com">dckly1976@gmail.com</a> Mobile No. 7980803980	





## **WORKSHOP SUMMARY REPORT**

**Workshop Title: “Five day International workshop on “Generation and Load Balance for Integration of Renewable Energy into Grid”**

**Date: 06-05-2020 to 10-05-2020 from 11:00 AM to 1:00 PM**

### **Invited Guest Speakers:**

**Dr. Rajesh Panda**, Assistant Professor, Electrical Engineering Department, C.V. Raman Global University, Bhubaneswar.

**Dr. Debdeep Saha**, Assistant professor Department of Electrical Engineering, Girijananda Chowdhury Institute of Management and Technology, Guwahati.

**Mr. Sudhanshu Ranjan**, Senior research fellow Department of Electrical Engineering, National Institute of Technology, Silchar.

**Dr. Subhojit Dawn**, Assistant Professor, Velagapudi Ramakrishna Siddhartha Engineering College Vijayawada, Andhra Pradesh.

**Mr. Ahmed Elserif**, Research Fellow, Centre of Excellence of Biomass, Helwan University.

### **Summary of the international workshop**

Dear Sir/Madam,

We are very pleased to inform you that the Department of Electrical Engineering of JIS College of Engineering in collaboration with the Institution of Engineers Student Chapter, Kolkata had organized a Five day International workshop on “GENERATION AND LOAD BALANCE FOR INTEGRATION OF RENEWABLE ENERGY INTO GRID” during 6<sup>th</sup> MAY 2020 to 10<sup>th</sup> May 2020 for B.Tech, M.Tech, Diploma as well as Ph.D. students.

This international workshop was inaugurated with a welcome address by Dr. Sila Singh Ghosh, registrar JIS College of Engineering. This was followed by a talk by Dr. Sabyasachi Sen, Dean R&D JIS College of Engineering. Dr. Sen



discussed the importance of such an international workshop during this COVID 19 pandemic situation.

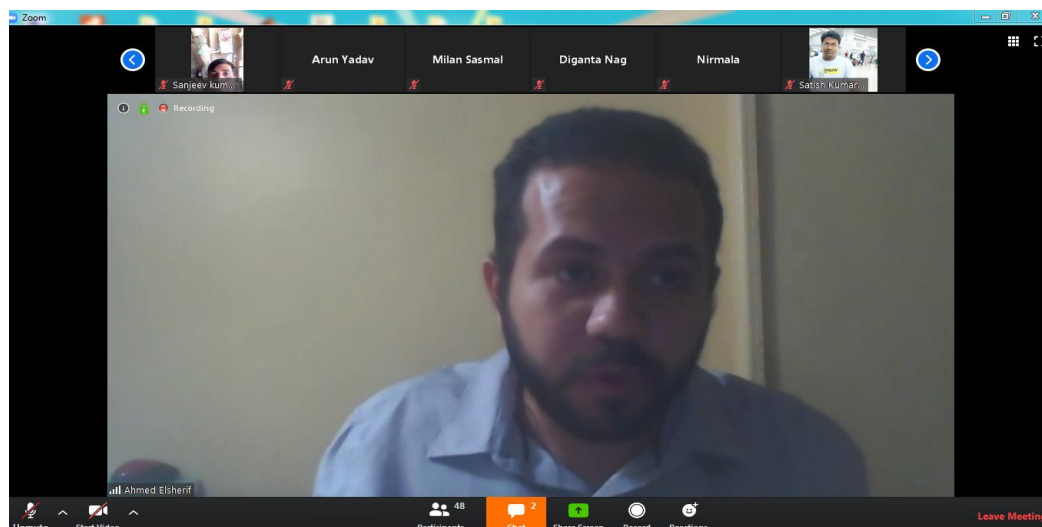
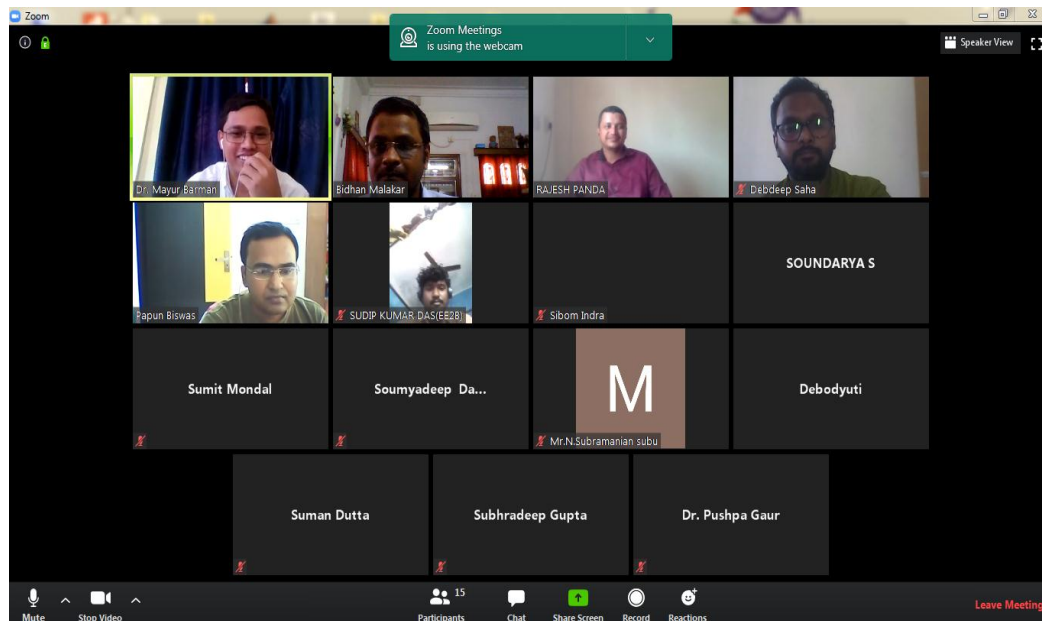
Many prominent technical expert from India as well as Egypt was present as speaker in this international workshop. The workshop was consists of five specific technical sessions as well as a panel discussion. In the 1<sup>st</sup> technical session Dr. Rajesh Panda, Assistant Professor, Electrical Engineering Department, C.V. Raman Global University, Bhubaneswar had delivered a lecture on “Integration of DER into Grid: Key Issues and Emerging Solutions”. In the 2<sup>nd</sup> technical session Dr. Debdeep Saha, Assistant Professor Department of Electrical Engineering, Girijananda Chowdhury Institute of Management and Technology, Guwahati was with us. Dr. Saha delivered a specific technical lecture on “Generation and Load balance during the PM Modi's 9-minute blackout call”. The 3<sup>rd</sup> technical session was started with a lecture by Mr. Sudhanshu Ranjan, Senior Research Fellow Department of Electrical Engineering National Institute of Technology Silchar. Mr. Ranjan discussed “Transformers for power systems, its losses, and necessities of cooling”. In the 4<sup>th</sup> technical session, we had with us Dr. Subhojit Dawn, Assistant Professor, Velagapudi Ramakrishna Siddhartha Engineering College Vijayawada, Andhra Pradesh. Dr. Dawn delivered a lecture on “Power System Deregulation & Renewable Energy Integration”. In the 5<sup>th</sup> technical session, we had we us Mr. Ahmed Elsherif from Egypt. Mr. Ahmed Elsherif is a Research Fellow at Center of excellence of biomass, Helwan University. Mr. Ahmed Elsherif delivered a lecture on “Importance of Biomass Energy and Key Environmental Concern”. At last, we had a panel discussion to clear the doubt of the participant. Apart from the guest speakers, we had with us Mrs. Suparna Pal, Assistant Professor, Department of Electrical Engineering, JIS College of Engineering and Dr. Pushpa Gaur, Assistant Professor, Department of Electrical Engineering, JIS College of Engineering for the panel discussion. Mrs. Pal talked about the importance of renewable energy integration to the grip for fulfilling future energy poverty. Dr. Gaur discussed the importance of interconnected systems in the modern-day restructured electrical industry.

All total of 215 participants from 19 different institutions across the country had registered for this international workshop. Apart from the B.Tech, M.Tech,

Diploma students many Ph.D. students from premier institutes like IIT Kharagpur, NIT Surathkal, NIT Patna, NIT Silchar, and VIT University had joined the workshop. The five days were fascinating and very engaging. To enhance the interaction the participant undergoes a small test after every technical session. Feedback was also collected after every technical session.

On behalf of the Department of Electrical Engineering, JIS College of Engineering this international workshop was coordinated by Dr. Bidhan Malakar and Dr. Mayur Barman.

Some pictures brochure and poster of the workshop is attached herewith.





You are viewing SAJISH PANDYA's screen View Options

## INTRODUCTION

- Power generation from renewables often takes place through distributed generation (DG). These units, mostly located in remote locations, are not centrally planned or dispatched, and are usually connected to distribution grids at LV or MV levels.
- As a result, the power generation structure is moving from the traditional large plants and many small generation pool consisting of traditional large plants and many small.
- Since a large group of DG technologies use power electronics to convert power, they introduce many technical issues related to the operation, control and protection, impacting generators, transmission system and consumer devices.
- During the past 50 years since 1965, global power generation from renewables has increased by 500%.

Participants: 65, Chat: 13, Share Screen, Record, Reactions, Leave Meeting

Recording: [Icon] [Icon]

You are viewing Debdeep Saha's screen View Options

**Question 1: Are only domestic lights to be switched off or are street lights, common area lighting, essential services etc lights also to be switched off between 9 - 9:09 pm?**

**Question 2: Are my domestic appliances safe during the switch off of house lights?**

**Question 3: Will there be adequate arrangements and protocols to handle grid stability during the light-out event on April 5 at 9 pm?**

**Question 4: Is it compulsory or voluntary to switch off lights?**

**Question 5: Some apprehensions have been expressed that this may cause instability in the grid and fluctuation in voltage which may harm the electrical appliances.**

Participants (59): 1 person is waiting, Message, Swati, 58 participants in the meeting, Find a participant, Dr. Mayur Barman (Host, me), Debdeep Saha, Invite, Mute All, Unmute All

Participants: 59, Start Video, Security, Manage Participants, Chat, Share Screen, Pause/Stop Recording, Reactions, Stop Meeting



## **Knok Down 2020**

# **National Level Creative Short Movie Competition**

### **REPORT ON THE NATIONAL LEVEL CREATIVE SHORT MOVIE COMPETITION**

**Title of the event: Knok Down 2020, National Level Creative Short Movie Competition**

**Date of the event: 14-06-2020 from 5:00 PM To 8:30 PM**

**Invited Guests:**

**Chief Guest:**

**Dr. Raju Basak**, Joint Secretary, Department of Electrical Engineering, Institution of Engineers (IEI), Kolkata, India

**Evaluators:**

**Dr. Abhigyan Ganguly**, Post – Doctoral Fellow, School of Electrical and Electronics Engineering, Howard College, UKZN, Durban, South Africa

**Dr. Debdeep Saha**, Assistant Professor Department of Electrical Engineering, Girijananda Chowdhury Institute of Management and Technology, Guwahati

**Dr. Anal Ranjan Sengupta**, Assistant Professor, Department of Mechanical Engineering, JIS College of Engineering, Kalyani

### **Summary of the national level creative short movie competition**

Dear Sir/ Madam,

We are very pleased to inform you that the Department of Electrical Engineering of JIS College of Engineering in collaboration with the Institution of Engineers Student Chapter, Kolkata had organized a national level creative short movie competition on 14<sup>th</sup> June, 2020 for the Students of Polytechnic, B.Tech and M.Tech students. This national event



was inaugurated with a welcome address presented by the invited chief guest Dr. Raju Basak, Joint Secretary, Institution of Engineers (IEI), Kolkata, India. The evaluators of this event are the experts invited for this event from India as well as from South Africa. The evaluators also presented their talk on this event. The central theme of this event is to promote creative thinkers to showcase their skills through a short movie (max. 10 minutes) related to human efforts to combat the pandemic at various levels. The movies submitted by the participants found to be innovative and technically sound. The movies also provide a moral from the story related with the chosen problem areas and they provide a technical solution for the problem. The event consists of a total of twenty different themes for creating the short movie.

Dr. Abhigyan Ganguly, Dr. Debdeep Saha and Dr. Anal Ranjan Sengupta are the invited international and national evaluators and they discussed about the importance of this event.

There are a total of 50 participants participated in this event from different institutes of our country. The participants are the students of Polytechnic, B.Tech and M.Tech from different colleges. The winners are awarded with the winning certificates and every participant is also awarded with the participation certificate.

On behalf of the Department of Electrical Engineering, JIS College of Engineering this international workshop was coordinated by Dr. Bidhan Malakar, Dr. Mayur Barman, Mr. Debashis Chakraborty, Mr. Debsekhari Roy and Debajyoti Sengupta.

Some pictures brochure and poster of the workshop is attached herewith.



