



SurTech

Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex

540, DumDum Road, Surer Math (Near Dum Dum Jn. Station), Kolkata-700074

Website: www.surtech.edu.in, Email: info@dsec.ac.in

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NEWSLETTER

2021

**DEPARTMENT OF ELECTRICAL
ENGINEERING**

DSCSITSC

VOLUME - II



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PRINCIPAL'S MESSAGE



THE KEY TO HAPPINESS IS NOT THAT YOU NEVER GET ANGRY, UPSET, FRUSTRATED, IRRITATED OR DEPRESSED. IT'S HOW FAST YOU DECIDE TO GET OUT OF IT.

I AM GLAD TO CONVEY MY BEST WISHES AND MESSAGE THROUGH THIS NEWS LETTER DURING THIS CRISIS PERIOD WHEN EVERYONE ARE FIGHTING HARD TO COMBAT WITH COVID 19, TO ALL FACULTIES, STAFF AND STUDENTS OF DEPARTMENT OF EE.

DEAR STUDENTS, IF YOU ARE DETERMINED TO WORK HARD TO ACHIEVE YOUR GOAL, NOTHING IN THIS WORLD CAN DETER YOU FROM ACHIEVING YOUR GOAL. HOWEVER, IF AT THE OUTSET YOU FAIL TO GET YOUR GOAL, FIGURE OUT WHETHER SOMETHING CHANGE NEEDED IN YOUR SET GOAL AS PER YOUR POTENTIAL.

AGAIN WORK WITH GREAT VIGOR YOU WILL DEFINITELY ACHIEVE YOUR GOAL. IF YOU HAVE SET YOUR GOAL, STRIVE HARD TO ACHIEVE IT AND THE SUCCESS WILL BE YOURS. TAKING EXCUSE FOR NOT DOING THINGS IS VERY EASY, EQUALLY EASY IS FINDING REASONS, WAYS AND MEANS FOR DOING IT.

YOUR ENTHUSIASM, SUPPORT AND COOPERATION DURING THIS CRISIS PERIOD ARE APPRECIABLE. COVID-19 HAS GIVEN US MANY REASONS TO LOOK INTO THE OTHER SIDE OF THE TABLE. MOTHER EARTH, NATURE, PLANTS, ANIMAL AND BIRDS ARE DEMANDING MANY THINGS FROM THE HUMAN BEING. IT'S RIGHT TIME TO UNDERSTAND THE NEED OF THE DAY. EDUCATION AND LEARNING CAN'T BE STOPPED. LOVE, AFFECTION, RESPECT, KINDNESS, DESIRE, POSITIVE ATTITUDE AND OPTIMISTIC APPROACH CAN'T BE LOCKED DOWN.

TRY TO DEVELOP POSITIVE MINDSET AND ATTITUDE, SO THAT A VALUE BASED SUCCESS AND GOAL CAN BE ACHIEVED.

A QUOTATION FOR ALL MY BUDDING TECHNOCRATS:

"I WAS ALWAYS LOOKING OUTSIDE MYSELF FOR STRENGTH AND CONFIDENCE, BUT IT COMES FROM WITHIN. IT IS THERE ALL THE TIME." – ANNA FREUD

TILL NEXT NEWSLETTER ALL THE BEST!

PROF. (DR.) SARADINDU PANDA
PRINCIPAL, DSCSITSC

WWW.SURTECH.EDU.IN



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HOD'S MESSAGE



**THE GREATEST GLORY IN LIVING
LIES NOT IN NEVER FALLING, BUT
IN RISING EVERY TIME WE FALL. -
NELSON MANDELA**

WELCOME TO DEPARTMENT OF ELECTRICAL ENGINEERING, DR. SUDHIR CHANDRA SUR INSTITUTE OF TECHNOLOGY & SPORTS COMPLEX, ONE OF THE FRONT-LINER COLLEGES OF THE JIS GROUP. ELECTRICAL ENGINEERING IS ONE OF MOST FUNDAMENTAL BRANCHES OF ENGINEERING. THE STUDY OF ELECTRICAL ENGINEERING DEALS WITH THE GENERATION, DISTRIBUTION AND TRANSMISSION OF POWER WITH ITS ALLIED DISCIPLINES. OUR TEAM CONSISTS OF EMINENT FACULTIES WHO ARE ASPIRING TO BE DOCTORATES AND ARE DEDICATED TO CONTINUOUSLY SERVE THE STUDENT COMMUNITY. WE ENCOURAGE RESEARCH AND DEVELOPMENT IN LATEST TECHNOLOGY. WE ARE COMMITTED TO THE DEVELOPMENT OF STUDENTS AND FACULTIES. OUR FACULTIES SHARE THEIR KNOWLEDGE ACQUIRED FROM VARIOUS NATIONAL AND INTERNATIONAL CONFERENCE AND EQUIP THE STUDENTS TO COMPETE WITH INTERNATIONAL STANDARDS.

BY DEFINITION IN ELECTRICAL ENGINEERING, "CORONA IS A DISCHARGE CAUSED BY ELECTRICAL OVER STRESS.". BUT IN THE CURRENT SCENARIO, THIS DEFINITION IS REPLACED BY A NEW ONE WHICH IS THE NAME OF A DEADLY VIRUS SPREADING COVID-19 DISEASE. THE NEWSLETTER OF EE HAS BEEN NAMED CORONA WHICH UNFOLDS ALL THE ACTIVITIES TAKEN UP BY EE DEPARTMENT DURING LOCK-DOWN.

I EXPRESS SINCERE THANKS TO ALL MY STUDENTS & STAFF MEMBERS OF EE DEPARTMENT FOR THEIR IMMENSE SUPPORT & CO-OPERATION IN THE CURRENT LOCKDOWN SITUATION.

A QUOTATION FOR ALL MY ENTHUSIASTIC STUDENTS:

"TO MYSELF I AM ONLY A CHILD PLAYING ON THE BEACH, WHILE VAST OCEANS OF TRUTH LIE UNDISCOVERED BEFORE ME." -SIR ISAAC NEWTON

TILL NEXT NEWSLETTER ALL THE BEST!

**MR. ANIRBAN CHOWDHURY
HOD, EE DEPT., DSCSITSC**



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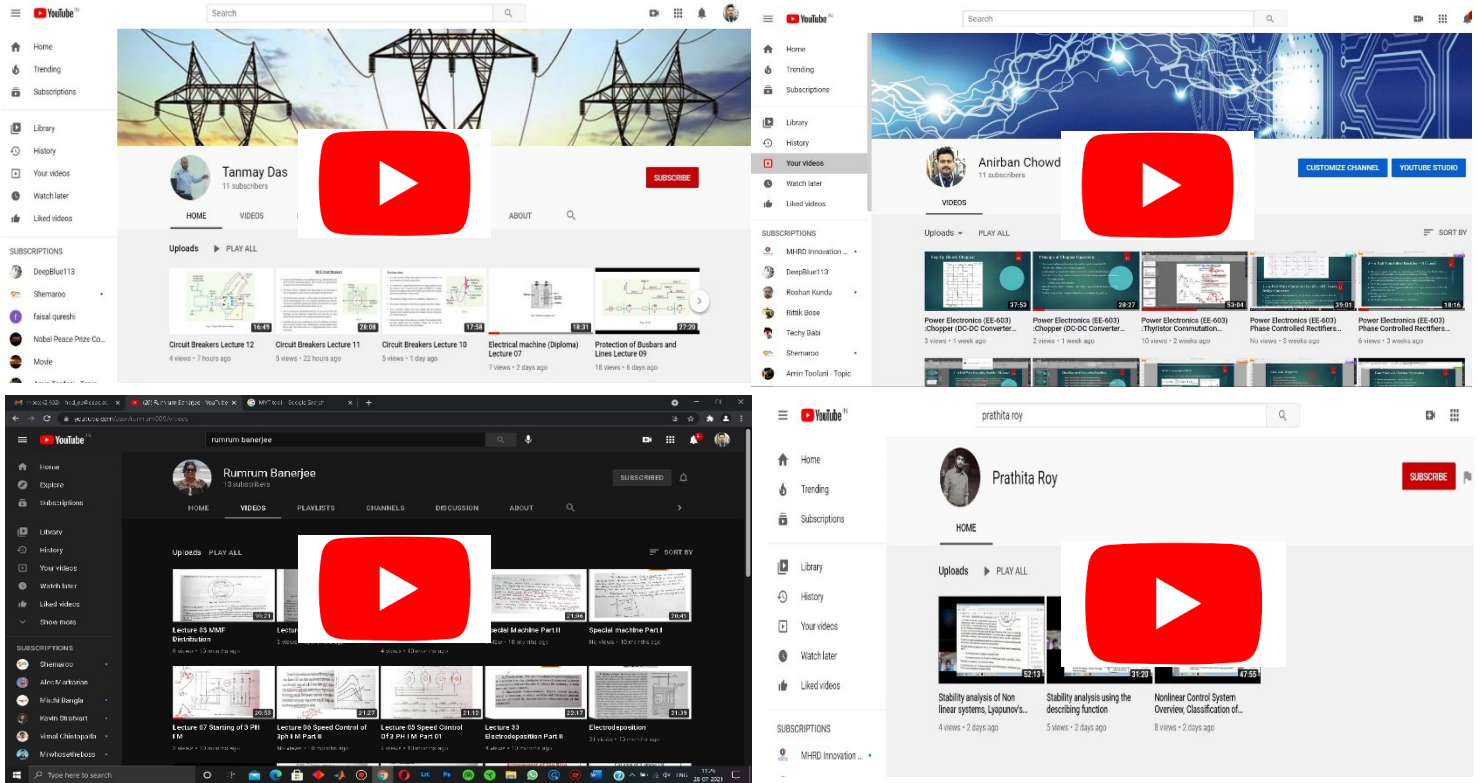
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DIGITAL LEARNING



In the current lock-down scenario, teaching learning process are continuing uninterrupted. The faculties are taking theory & laboratory classes by means of several online platforms like GoToMeeting, My-Perfectice, YouTube, Google Classroom etc. Assignments, quizzes & tutorials are provided to the students which are evaluated digitally. Apart from live classes, the faculties are having their own YouTube Channels where recorded lectures are archived.



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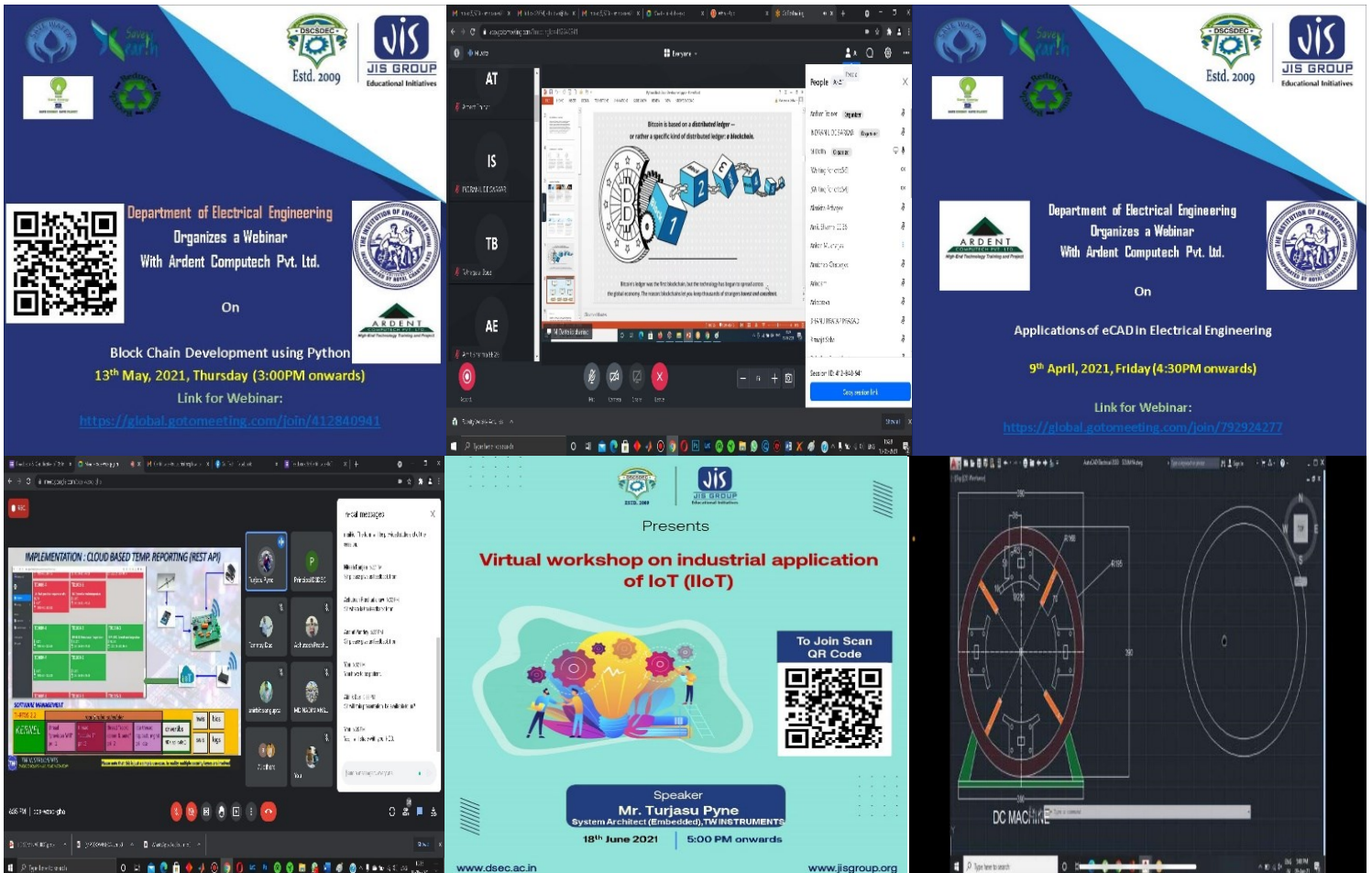
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WEBINARS

The department of EE has organised webinars by eminent academicians & industry persons on the latest state-of-art technologies like PLC, SCADA, IIoT, e-CAD, Blockchain Technology, AI & Machine Learning etc. The students have attended these webinar sessions with lots of enthusiasm. These sessions were concluded on an interactive mode where lots of questions were answered & doubts were cleared by the experts. Some of the glimpses are shown below.





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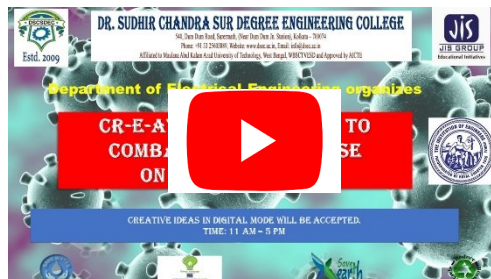
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LIST OF WEBINARS ORGANIZED

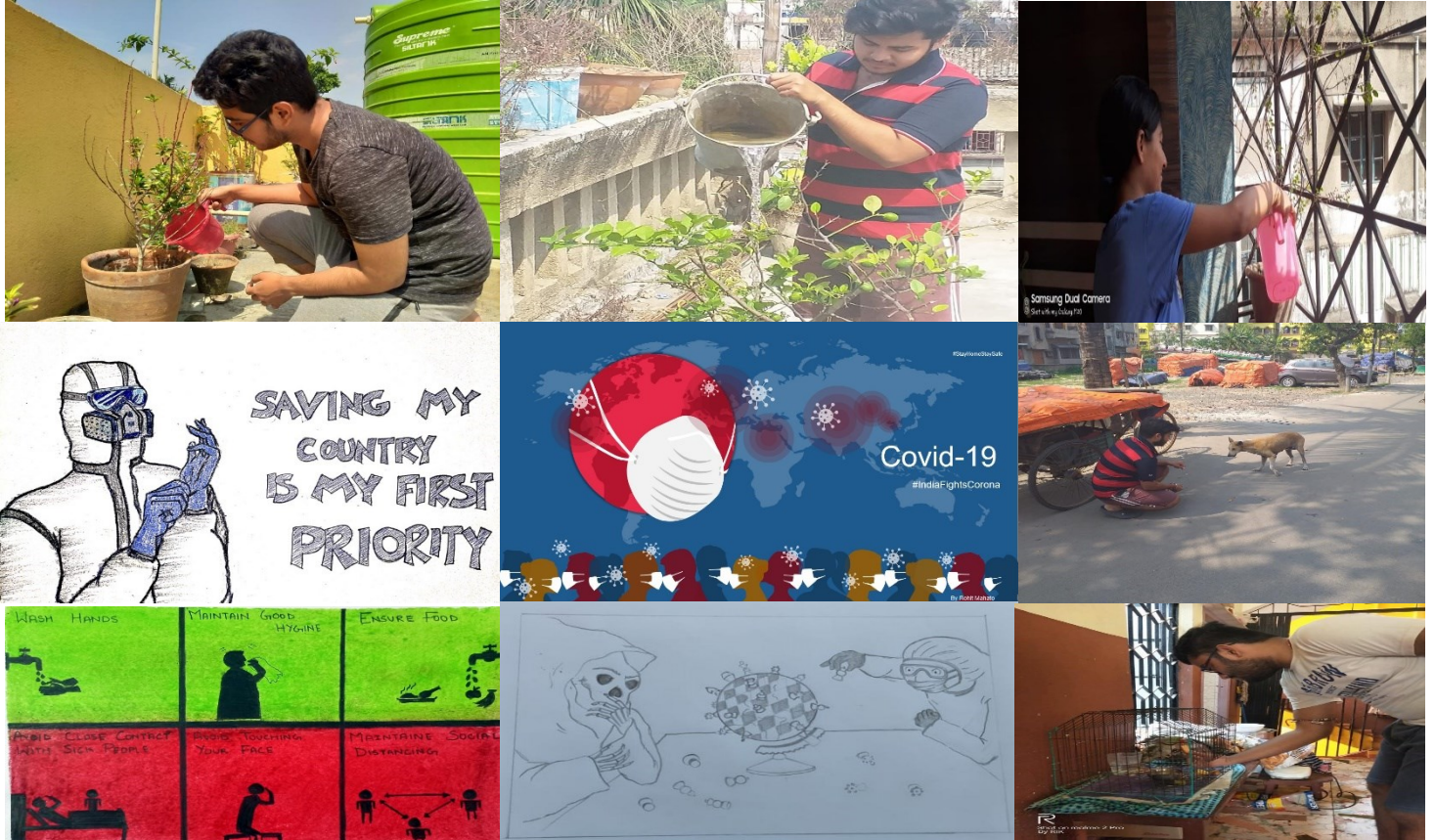
List of Webinars organized		
Sl. No.	Date	Seminar/ Workshop/ Conference Topic
1	05/04/2021 – 09/04/2021	Five days FDP titled Machine Learning using Python
2	09/04/2021	A Webinar on Applications of eCAD in Electrical Engineering
3	13/05/2021	A Webinar on Applications of Blockchain Development using Python
4	18/06/2021	A Virtual workshop on the industrial application of IoT (IIoT)
5	25/09/2021	A webinar on practical applications of MATLAB in Electrical Engineering
6	9/9/2021	A webinar on ML using Python
7	14/12/2021	A webinar on PLC

CREATIVE IDEA COMPETITION

The department of EE has organised webinars by eminent academicians & industry persons on the latest state-of-art technologies like PLC, SCADA, IIoT, e-CAD, Blockchain Technology, AI & Machine Learning etc. The students have attended these webinar sessions with lots of enthusiasm. These sessions were concluded with interactive Q&A sessions where lots of questions were answered & doubts were cleared by the experts. Some of the glimpses are shown below.



NSS ACTIVITIES



The Department of Electrical Engineering, DSCSDEC have taken initiative against the outbreak and spread of COVID19 in the crisis of LOCKDOWN. Some of the most mentionable NSS activities and initiatives by the EE Department in COVID 19 & LOCKDOWN situations are briefly mentioned below:

1. COVID-19 Awareness Presentations
2. Creative Drawing
3. Writing & reciting poems
4. Creative Dance expressing COVID-19 Do's & Don'ts
5. Making and sharing videos of social awareness related to COVID19 through online digital platforms and social media.
6. Creative Banners & Posters spreading COVID 19 Awareness
7. Watering plants & feeding animals



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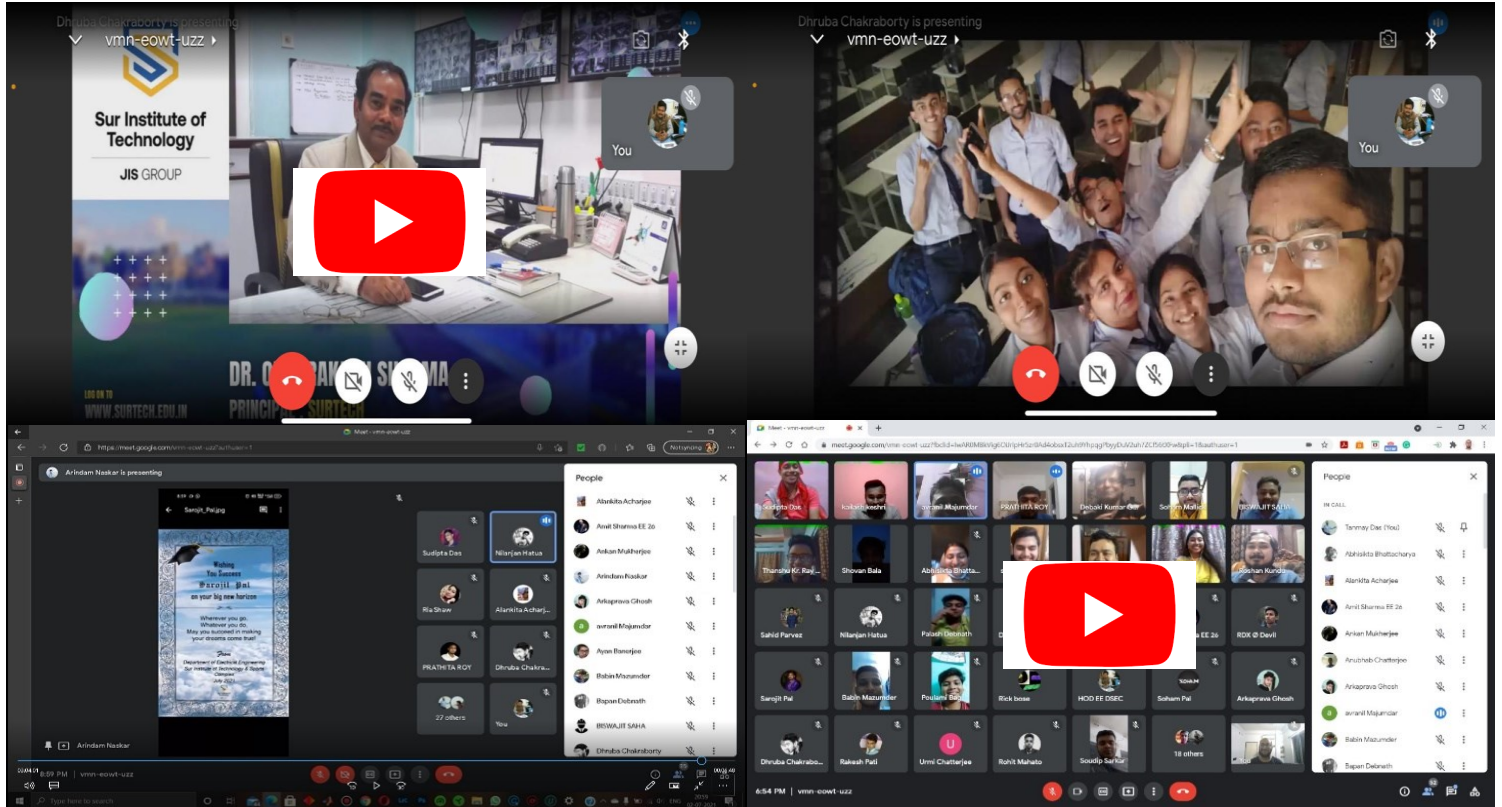
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FAREWELL OF EE 2021 BATCH



With great pleasure, we would like to inform you that the farewell program “Adieu Seniors” for BTech was successfully conducted by the Electrical Engineering Department for the 2017-2021 pass-out batch on 2nd July 2021.

The farewell was coordinated by the 3rd year students. There was an open platform interaction for students from the 1st, 2nd, 3rd, and 4th year along with the faculty members of present and past. The students were delighted to see their juniors and faculty members. In the interaction, the students shared their life experiences at the college and expressed that these memorable moments will always be loved and cherished throughout the rest of their life. They were emotional when each faculty took turns to express their memories of them. Digital mementos were presented to every pass-out student by faculty members to make this event a cherished memory of their lifetime.



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PUBLICATION OF THE 13TH & 14TH ISSUE OF SURGE

SURGE


The Wall-Magazine of EE Department, SURTECH (13th Issue)

(An activity under Institute of Engineers (IEI), India Student Chapter)

Theme: "New normal" to a "New future": A sustainable response to COVID-19

This e-Wall Magazine shows how life found a new future while living a new normal life for the past one year..

Social Activities



It is our moral duty & responsibility to create a positive & vibrant world as much as possible.

We should feed the poor & homeless.

We should care the birds & animals around us & feed them.

We should not waste food & water.

Our sincere thanks to all the doctors & health workers for devoting their time for the service of the Nation.





SURGE

The Wall-Magazine of EE Department, DSCSDEC

(An activity under Institute of Engineers (IEI), India Student Chapter)

Theme: National Energy Conservation Day 14th December, 2021



Student Corner

Freedom is not given, it is taken.

Remembering IIT on its 75th birthday, its alumni face crises in different personalities among the youngsters and also among the defence followers to the bottom of heart.

The coronavirus has had a great impact on the world and it is a great challenge for all of us.

It is our moral duty & responsibility to create a positive & vibrant world as much as possible.

We should feed the poor & homeless.

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Our sincere thanks to all the doctors & health workers for devoting their time for the service of the Nation.








SURGE

The Wall-Magazine of EE Department, DSCSDEC

(An activity under Institute of Engineers (IEI), India Student Chapter)

Theme: National Energy Conservation Day 14th December, 2021

Every year on the 14th of December, Indians around the country commemorate National Energy Conservation Day. In 2001, the Bureau of Energy Efficiency (BEE) of India implemented the Energy Conservation Act.

SURGE

The Wall-Magazine of EE Department


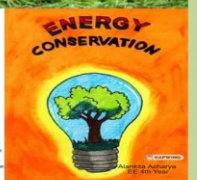
What Is Energy Conservation?

In India, National Energy Conservation Day is observed to raise awareness about the significance of energy and the need of saving or conserving energy by using less energy. The most precise method of energy conservation is to utilize less energy by minimizing energy waste. To store energy for future use, it is critical to use it effectively. To have a greater impact on the energy conservation strategy, energy conservation should be ingrained in every human being's behavior.

Objectives of National Energy Conservation Day

- Every year, National Energy Conservation Day is commemorated with a specific theme and a set of aims and objectives to make energy conservation more successful throughout the country. The following are some of the most essential objectives:
- It is commemorated to send a message to the public about the need of saving energy in all aspects of life.
- Organizing a variety of activities around the country, such as seminars, conferences, debates, workshops, contests, and so on, to promote the energy conservation process.
- Encourage consumers to use less energy by ignoring excessive and inefficient consumption.
- Encourage individuals to utilize energy efficiently in order to reduce consumption and prevent energy loss.

Sayandeep Das
Student EE, 3rd Year





SURGE

The Wall-Magazine of EE Department

Energy Conservation Measures

Let's "Walk Our Talk"

 Lighting Controls Fluorescent Lights, LED's, Occupancy Sensors Etc.	 Space Heating and Cooling Insulation, Programmable Thermostats, Duct Insulation, Etc.	 Domestic Appliances Refrigerators, Clothes Washers, Water Heaters, Etc.	 Transportation Mass Transportation, Energy Efficient Cars
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BEE- Bureau of Energy Efficiency

The Government of India set up Bureau of Energy Efficiency (BEE) on 10 March 2002 under the provisions of the Energy Conservation Act, 2001. The mission of the Bureau of Energy Efficiency is to assist in developing policies and strategies with a thrust on self-regulation and market principles, within the overall framework of the Energy Conservation Act, 2001 with the primary objective of reducing energy intensity of the Indian economy.

Role of BEE

BEE co-ordinates with designated consumers, designated agencies and other organizations and recognize, identify and utilize the existing resources and infrastructure, in performing the functions assigned to it under the Energy Conservation Act. The Energy Conservation Act provides for regulatory and promotional functions.

The Major Promotional Functions of BEE include:

- Create awareness and disseminate information on energy efficiency and conservation
- Arrange and organize training of personnel and specialists in the techniques for efficient use of energy and its conservation
- Strengthen consultancy services in the field of energy conservation
- Promote research and development
- Develop testing and certification procedures and promote testing facilities
- Formulate and facilitate implementation of pilot projects and demonstration projects
- Promote use of energy efficient processes, equipment, devices and systems

Rajarshi Chakraborty
Student, EE 2nd Year

The Department of Electrical Engineering of DSCSITSC has digitally published the 13th issue of the e-wall magazine "SURGE" based on the themes "New normal" to a "New future": A sustainable response to COVID-19 on Friday 11th June 2021. It features the social, cultural, academic & extra-academic activities performed by the EE department amidst the pandemic roller-coaster. The 14th issue was released on 12th December 2021 on World Environment Day.



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FDPS ATTENDED

Faculty Achievement		
Name	Details	Link
Anirban Chowdhury	COURSERA Course on Introduction to Power Electronics	https://drive.google.com/file/d/1a6vVt3uFF1Zix-HolxCpEEWb60PIyYgW/view?usp=sharing
Anirban Chowdhury	ATAL FDP on Hybrid Electric Vehicles	https://drive.google.com/file/d/11tp9NplicEB4YOvzN1hPVnhwK9IUOrb/view?usp=sharing
Anirban Chowdhury	ATAL FDP on Hybrid Electric Vehicles	https://drive.google.com/file/d/11tp9NplicEB4YOvzN1hPVnhwK9IUOrb/view?usp=sharing
Prathita Roy	COURSERA course on Electric Power Systems	https://drive.google.com/file/d/1Pem3pjrRjMCfI29pBn0891gHKF1MdNDt/view?usp=sharing
Prathita Roy	ATAL FDP on Recent Advances in Control Systems-2021	https://drive.google.com/file/d/13piOoQ0YwoaWcgY_r2eyO9EUJ_ranX4D/view?usp=sharing
Rumrum Banerjee	COURSERA course on Introduction to programming with MATLAB	https://drive.google.com/file/d/1oO9l-X-Vt8kXKcG7jT18WR9SHe1P1E1r/view?usp=sharing
Rumrum Banerjee	ATAL FDP on Recent Advances in Control Systems-2021	https://drive.google.com/file/d/1Qfy24f1kweTKYe9pCZxB21DAeTV9eyKi/view?usp=sharing
Dr. Sudipta Acharya	ATAL FDP on "Introduction to Speech Processing and its Applications using AI-ML (ISPA)-2021" from 25/10/2021 to 29/10/2021 at Centre for Development of Advanced Computing, Kolkata.	https://drive.google.com/file/d/1i9BbeAt6_Af7yHeXwC41VQ5yOoSzLcc4/view?usp=sharing



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STUDENT ACHEIVEMENTS

Amit Sharma, Tathagata Bose & Urmimala Chatterjee of the EE Dept presented their Project titled "Lipstick Taser" in the final rounds of the AICTE Chhatra-Vishwakarma Awards held on 28th May, 2021 under the mentorship of Mrs. Rumrum Banerjee, Asst Professor, EE. It has been selected among the top 100 projects under the Chhatra-Vishwakarma Convention 2020. The certificates are attached herewith.



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Members

Tathagata Bose Amit Sharma
Urmimala Chatterjee Baisakhi Das

Lipstick Taser
A Woman Safety Device

Our team has been shortlisted for the next level of scrutiny at 4th AICTE-Chhatra Vishwakarma Award 2020

Mentor : Mrs. Rumrum Banerjee, Asst. Professor EE

Concept Model Images