



J.C. BOSE UST, YMCA,  
FARIDABAD, HARYANA

# DEPARTMENT OF ELECTRICAL ENGINEERING

NEWSLETTER  
2021-22



**Prof. Anju Gupta**

(Chairperson, Electrical Engineering Department)

## Chairperson's message

Over the past year, we have faced numerous challenges in our social, personal lives and in the realm of academia. However, despite these obstacles, I am proud to say that our department has continued to thrive. Our faculty members have continued to produce groundbreaking research and to push the boundaries of what is possible in the field of Electrical Engineering.

The Department of Electrical Engineering is committed to impart technical education in the most efficient manner to its students. It was established in the year 2012 (earlier combined with Electronics Engineering Department and known as EEE Department running since the inception of YMCAIE). The department has equipped itself with workshops/labs and syllabus for achieving engineering education excellence, from the support of excellent faculty of the Department. J.C. Bose University of Science & Technology, YMCA Faridabad, Haryana has established itself as well known entity in the field of Electrical Engineering.



## STUDENT'S CONTRIBUTION



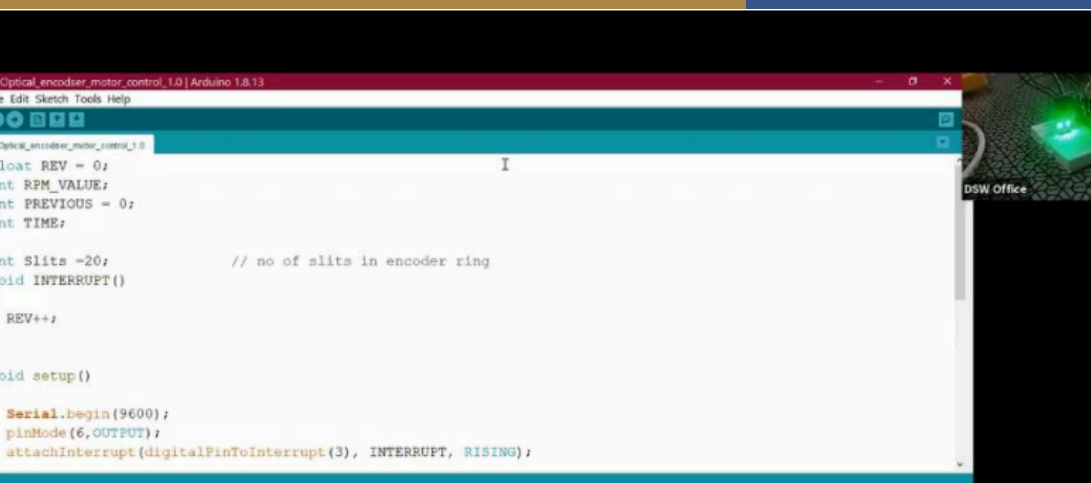
A two-day workshop on Solar Power Generation and BMS circuits trained students in solar energy production and residential solar panel installation.



A one-day workshop, "Inquiring Interface" provided hands-on experience with Command Line Interface (CLI) using Windows Command Prompt and Graphical User Interface (GUI) using Tkinter.



A workshop on "LED Matrix" was conducted on October 31, 2021, aimed at training participants in soldering and circuit-making on perforated copper boards.



A two-day workshop on "Encoders & Motors" was held on July 27-28, 2021, focusing on the types of encoders and their real-life applications.

## PARTICIPATION IN INTER-INSTITUTE EVENTS BY STUDENTS OF THE PROGRAM OF STUDY

Event	Organised By	Name of the Student	Position
Rick and click	IIT Delhi	Nakshatra sharma	1st in wildlife, 2nd overall

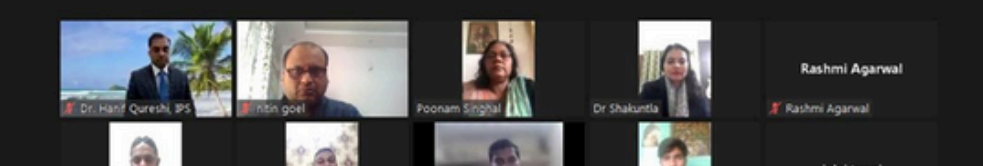


# DEPARTMENTAL ACTIVITIES

6 days online AICTE SPONSORED FDP on "Vehicle Techniques with OPAL—RT Solutions" from 20th — 25th Dec 2021.



6 days Offline STP on "AutoCAD Engineers with PLC Basics" was held from 25th June - 2nd July 2021.



**J.C. Bose University of Science & Technology**  
**YMCA, Faridabad**  
 NH2, Sector-6, Mathura Road, Faridabad-121006, Haryana, India  
 (Accredited 'A' Grade by NAAC)

**Two Days Online Workshop**

**"Design & Development of Electric Vehicle using Ansys"**  
 November 26-27, 2021



**Patron**  
**Sh. Raj Nehru**  
 Vice Chancellor,  
 JCBUST, YMCA Faridabad



**Program Chair**  
**Dr. Poonam Singhal**  
 Chairperson,  
 JCBUST, YMCA Faridabad

- Program Outline**
- Introduction of Electric Vehicle.
  - Design and Analysis of Electric Motor using Ansys.
  - Power Electronics in Electric Vehicle.
  - Complete Electric Vehicle Simulation.

E-certificate will be provided to all registered participants

**J.C. Bose University of Science and Technology**  
 YMCA, Faridabad, Haryana  
 (A Haryana State Government University)

In Association with **ACE** and **AC**

**LIVE WEBINAR**  
**on Machines (Electrical Engineering)**

**Speaker**  
**Mr. Khadar Basha**  
 Motivational Speaker,  
 Jawaharlal Nehru Technological University, Anantapur  
 M. Tech. in Power Electronics  
 10+ Years of GATE/ESE/PS Teaching Experience

**Patron**  
**Prof. Poonam Singhal**  
 person Electrical Engg. Deptt.  
 JCBUST, YMCA Faridabad

**Convener**  
**Dr. Shakuntla**  
 Assistant Professor  
 Electrical Engg. Deptt.  
 JCBUST, YMCA Faridabad

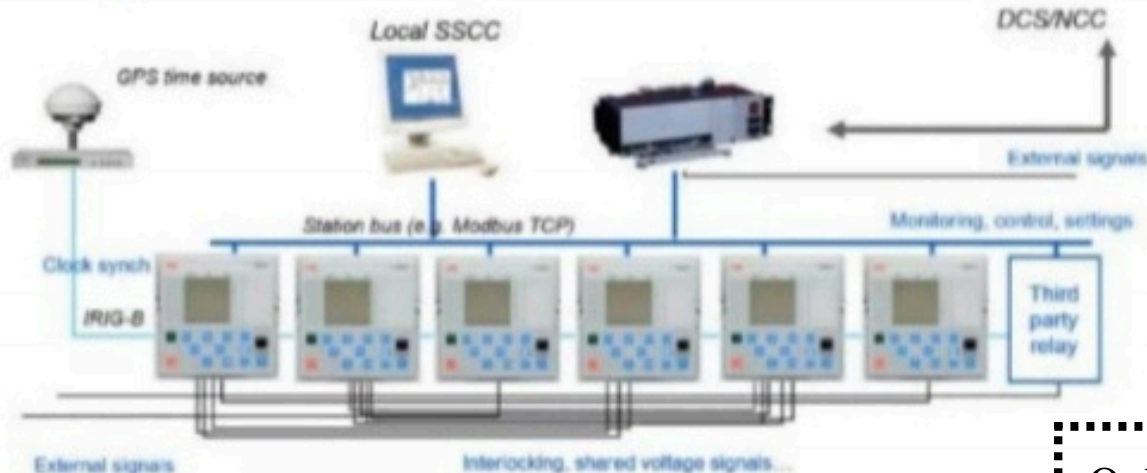
**4th December**  
 Saturday  
 10:30AM - 12:00 PM

Scan QR Code for Registration or go to the link...  
<https://forms.gle/pFLPUEJQ2ahivq5x7>

A webinar on Machines held on 4th Dec 2021

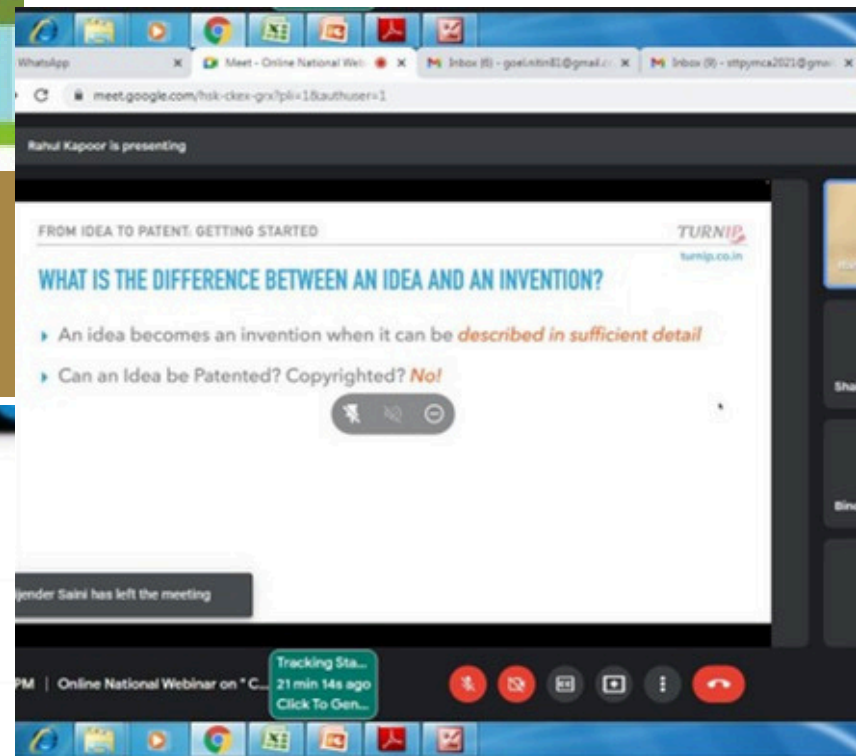
Two Days online Workshop on Design & Development of Electric Vehicle using Ansys from 26-27 Nov 2021

**A conventional approach**  
**Hardwired, Master Slave communication between IED and SSCC )**



Conventional copper-wired inter-bay signals like:

- Time synchronization
- Protection blocking



Online National Webinar on "Converting Research to Patents" held on 4th March 2022.

Online Expert Lecture on Protection System and IEC 61850 on 1st Feb 2021



**Two days AICTE Sponsored International Conference on Recent Developments in Electrical and E/ectronics Engineering (ICRDEEE-2022) held from 15th-16th April 2022**

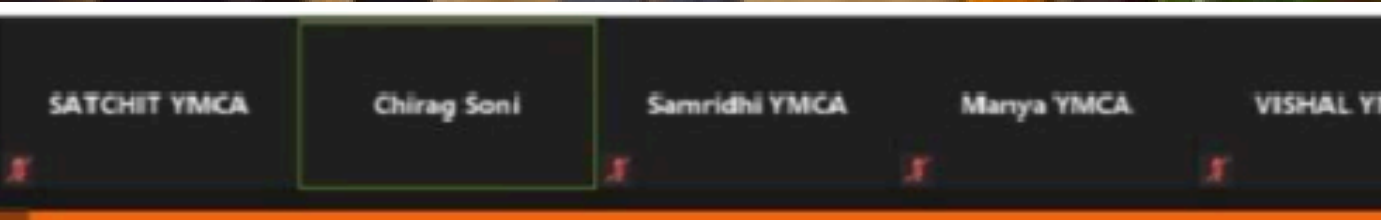
The international conference ICRDEEEE-2022 provided a platform to the Scholars, Professionals & Engineers who have a propensity towards research and to explore innovative ideas related to Electrical & Electronics Engineering. Dr Hanif Qureshi, IPS & DG of New & Renewable Energy Department, Haryana was the Chief Guest of the inaugural function. He appraised the audience on various Haryana Govt. Policies of EV charging stations in order to promote EV in Haryana. Prof. Bhim Singh, Prof. IIT Delhi & General Chair of the conference and Dr. Sanjay Yadav, Chief scientist delivered the keynote lectures.




*Organized By*  
DEPARTMENT OF ELECTRICAL ENGINEERING J. C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, FARIDABAD

*In Association with*  
UIT -The Arctic University of Norway, Campus Narvik, Norway  
&  
Institution of Engineers (India)

EMAIL: [icrdeee22@gmail.com](mailto:icrdeee22@gmail.com) | WEBSITE: [www.icrdeee2022.com](http://www.icrdeee2022.com)



File System	DBMS
File system is a software that manages and organizes the files in a storage medium within a computer.	DBMS is a software for managing the
Redundant data can be present in a file system.	In DBMS there is no redundant data.
It doesn't provide backup and recovery of data if it is lost.	It provides backup and recovery of data if it is lost.

About J.C. Bose University of Science and Technology, YMCA

Online expert lecture on Databases organized in collaboration with Awakinn and undertaken by Mr. Chirag Soni



**DEPARTMENTAL PUBLICATIONS**

Category	Number
Publications in International Journals	22
Publications in International Conferences	28

**DETAILS OF MOUs SIGNED DURING THE YEAR**

Academic Partner/ Agency / Industry	Duration	Date
Bareja solar and Projects Pvt. Ltd.	3 Years	02.09.2021
RVM CADSoft	3 Years	20.08.2021



# MISCELLANEOUS ACTIVITIES



The industrial visit to ABB India Limited in Faridabad aimed to provide students with practical exposure to the design of induction motors, including industry standards for stator and rotor design. Students also learned about motor components, working principles, and essential safety measures followed in industrial settings

A trip to Bhakra Dam was organized to provide students with insights into hydroelectric power plants, focusing on the construction and operation of Bhakra Dam. Students toured various locations around the dam and received expert guidance on its functioning



The Renewable Energy India Expo 2022 trip aimed to expose students to emerging technologies in renewable energy. It focused on advancements in floating solar, bifacial solar panels, EV fast charging stations, dual-axis solar trackers, and solar inverters, providing valuable insights into both existing and upcoming innovations.

## OUR RECRUITERS (2021-22)

