

NEWSLETTER

Issue 9 | July - September, 2021.

Issue 10 | October – December, 2021.

Department of Electrical Engineering, SVNIT, Surat.

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Dear Readers,

I am happy to present the 9th and 10th issues of the Department quarterly newsletter to you. The major parts of this collection include, short term training programmes organised (in the virtual mode), activities of Electrical Engineering Society, international conference, research publications. I acknowledge the efforts of the committee members Dr. J. Venkataramanaiah, Dr. G. Sushnigdha and Dr. Suresh Lakhimsetty in the editing these issues. I also thank the research scholars Ms. Jahera Shaik and Mr. Deepkumar Patel for assisting the committee members.



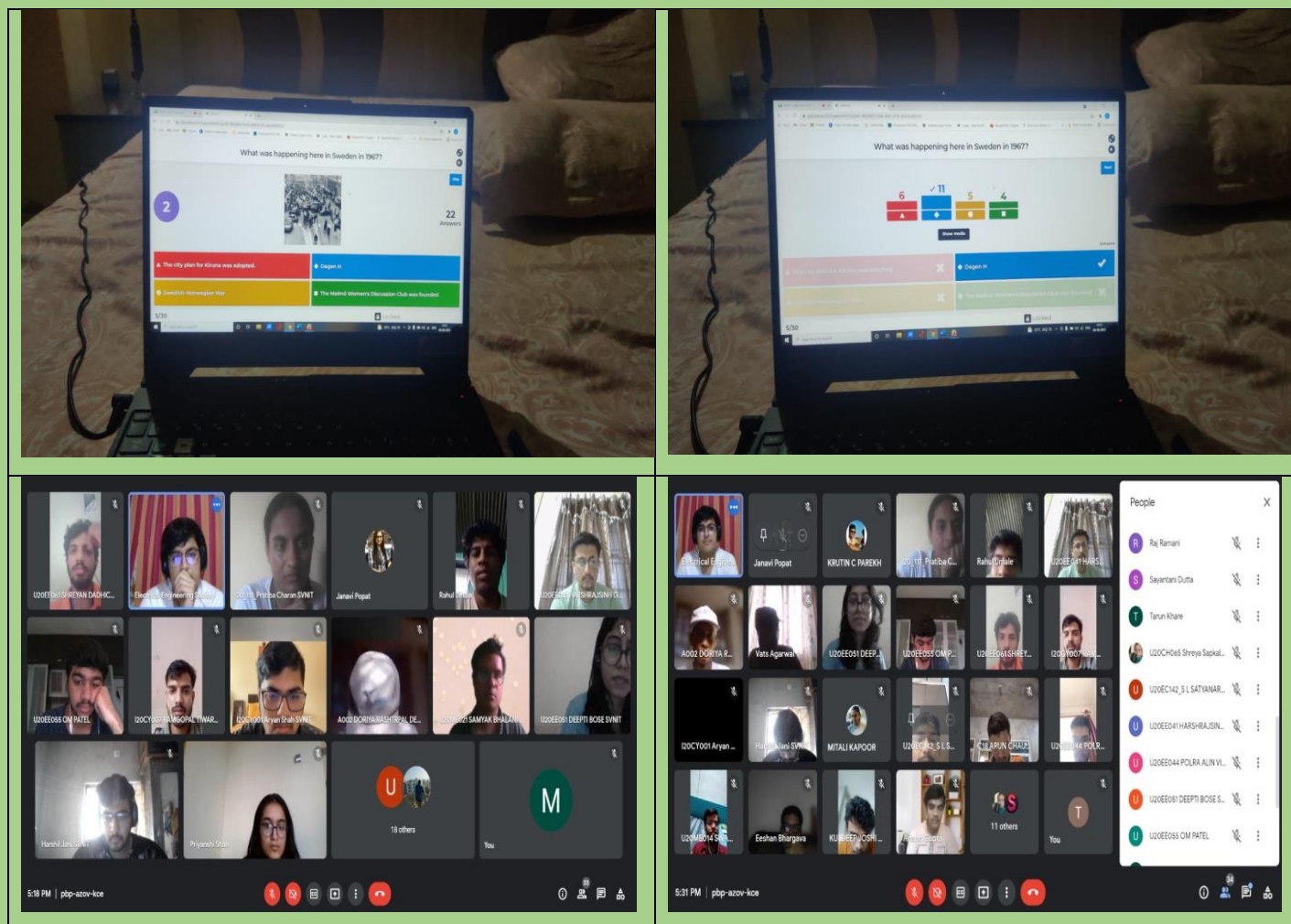
Dr. R. Chudamani,
Head of the Department

Activities of Electrical Engineering Society

EVENT	DATE	PARTICIPANTS
QUIZYAPA 2021	08-08-2021	143
RECHARGE 2021	14-08-2021	82

QUIZYAPA

It is the largest quizzing competition of our institute organized by EES every year. We have questions from various topics which include; politics, current affairs, technology, sports, general awareness, engineering, our college and many more. We also provide a unique experience to all the participants by coming up with variety of new elements in different rounds of the event. This year, we had a computer adaptive round followed by final round held on Kahoot platform.



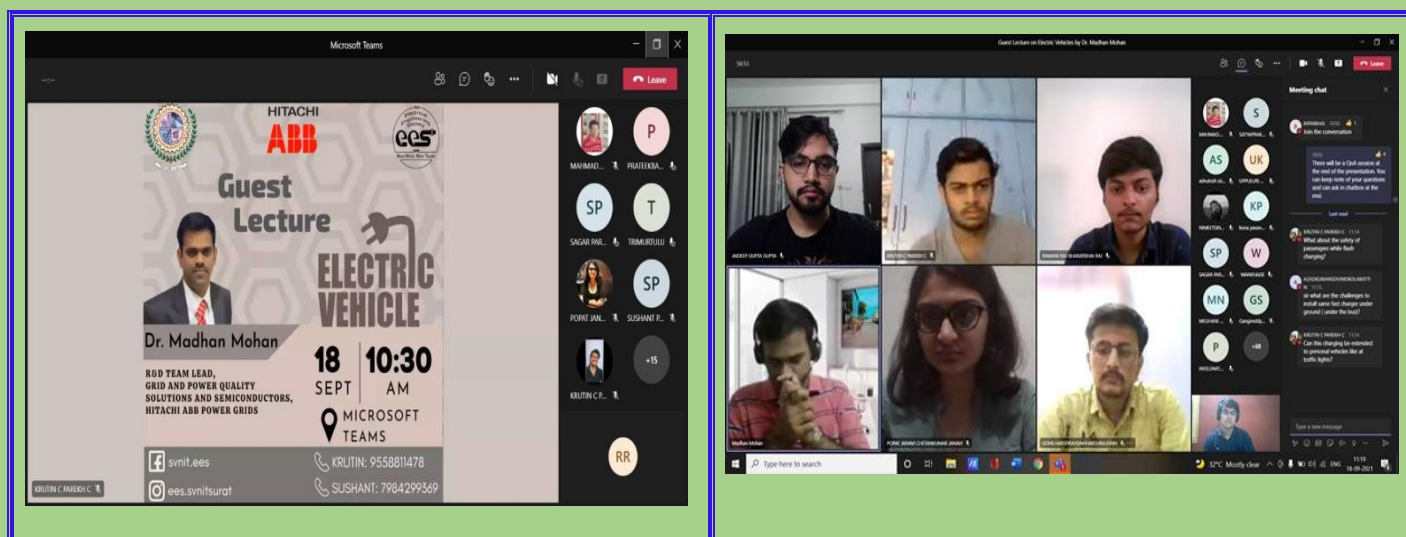
RECHARGE

It is the annual recruitment drive for sophomore executives. The purpose of conducting the event is to introduce the second-year batch about the culture and functioning of EES. It is followed by interviews to integrate them into our executive committee. After interviews, the selected candidates are taken into consideration for mentor allotment program along with the core committee members of EES. Every year interviews are held for the following five committees:

- 1. Technical Committee*
- 2. Finance and Documentation Committee*
- 3. Informal Committee*
- 4. Creative Committee*
- 5. Publicity Committee*

Guest Lecture on Electric Vehicle by Dr. Madhan Mohan

We had an informative and exciting presentation on the topic, “Flash Charging Technology for Sustainable E-Mobility” which was followed by an interactive Q & A session. The eminent speaker, Dr. Madhan Mohan is the R & D team lead of grid and power quality solutions & semiconductors at Hitachi ABB Power Grids. He is also the project manager for e-Bus Pilot project with flash charger technology in collaboration with Ashok Leyland and IITM. His field of experience includes HVDC, FACTS, Power Quality, Power Semiconductors and its applications and Electric Vehicle & Chargers. The lecture delivered by him about Electrical Vehicles satisfied the curiosity of many students who are interested in this field and also ignited a spark of exploration amongst the beginners. The event was organized on 18-9-2021 and there were around 156 participants.



Short Term Programmes (Organized hybrid mode (online and offline))

Title: Embedded C for ARM Cortex M4 Microcontrollers

Organized by: Dr. M. A. Mulla and Dr. Sanjay Tolani

Sponsored by: TEQIP III

Duration: 25-29 October, 2021



Sanctioned Project

Title: Design and Control of Renewable Energy-based AC Microgrid Systems

Name of the PI: Dr. Rajasekharareddy Chilipi.

Funding Agency: Science & Engineering Research Board (SERB), New Delhi

Fund Granted: Rs. 32,94,500/-

Collaborative Research

Title: Design & Development of Soft controller for PV integrated MPPT based multi-level Inverter system

Name of the Principal Collaborator: Dr. M. A. Mulla, SVNIT, Surat.

Name of the PI: Dr. Ami T. Patel, Electrical Engineering, Government Engineering College, Bharuch

Funding Agency: DTE, Gujarat State (STEM)

Fund Granted: Rs. 2,00,000/-

Diamond Jubilee Events

1. Title: International conference: Sustainable Technology and advanced computing in Electrical Engineering

Organizing secretary: Dr. Vasundhara Mahajan, Dr. A. Chowdhury

Funded by: SVNIT

Duration: 11-12 October, 2021

2. Title: International Conference Sustainable development goals and gender perspective.

Organizing Secretary: Dr. Vasundhara Mahajan and Dr. A. Chowdhury

Funded by: SVNIT

Duration: 24-25 October, 2021

Ph.D. Degree Awardees

Name of the student: Nagarsheth Shaival Hemant

Title: Contribution to the control and Sensitivity Aspects of Linear Dynamic Processes

Date: 13-07-2021

Supervisor: Prof. S. N. Sharma

Name of the student: Mehta Dhruvesh Maheshbhai

Title: Partial Discharge and Breakdown characteristics of Ester based insulating liquids for Transformer in Non-homogenous electric field.

Date: 26-07-2021

Supervisor(s): Dr. Prasanta Kundu and Prof. A. Chowdhury

Name of the student: Bhatt Dhruvi Sanjay

Title: Contributions to the Estimation and Control of Nonlinear Dynamic Systems via Carleman Linearization

Date: 29-10-2021

Supervisor: Prof. S. N. Sharma

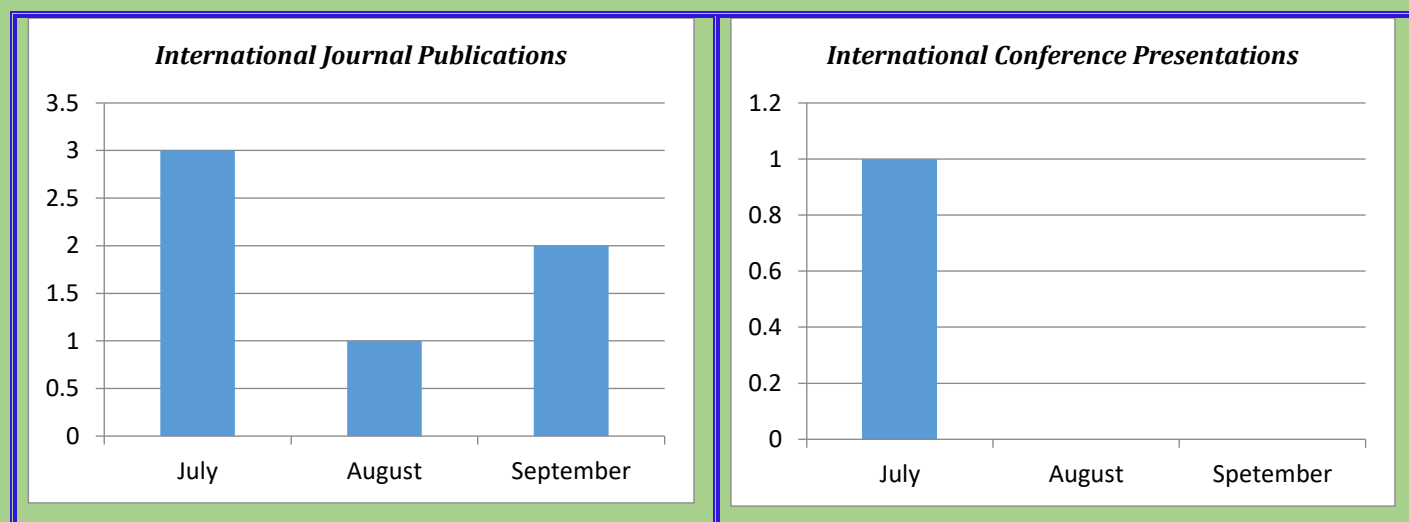
Name of the student: Kumari Shipra

Title: Passivity based control of switched electrical networks: first the langrangian, then the Hamiltonian and finally, the Brayton-Moser framework.

Date: 23-09-2021

Supervisor(s): Prof S. N. Sharma and Dr. Rakesh Maurya

Research Publications



Farewell to our Colleagues

The department bid farewell to two faculty members Prof. Janak J. Patel and Prof. Manisha D. Gohil on 1st September, 2021. Prof. Janak Patel has worked in the department for 30 years and was popular among the students for his teaching which was enhanced by exposure to industry.

Prof. Manisha D. Gohil was sincere and hardworking person contributing 24 years to the department. We wish them all Good Luck.











*"Coming together is a beginning, keeping together is progress, working together is
SUCCESS" – Henry Ford*