



## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-22 / ODD SEMESTER

### INTERNAL SEMINAR REPORT

01.12.2021

Department of EEE has organized an Internal Seminar on “Evolution of Multilevel Inverter” for second, third and final year EEE students on 30.11.2021.

#### **Objective:**

- To impart knowledge to students on the basic concepts of Multilevel Inverter (MLI)
- To provide adequate knowledge on different types of multilevel inverter and its applications in the field of Electrical and Electronics Engineering.

**Beneficiaries: Total: 62 (II, III & IV Year EEE Students)**

**Time: 6.00 P.M to 7.00 P.M**

**Venue: Online (Google meet): [meet.google.com/txx-zkkd-hkh](https://meet.google.com/txx-zkkd-hkh)**

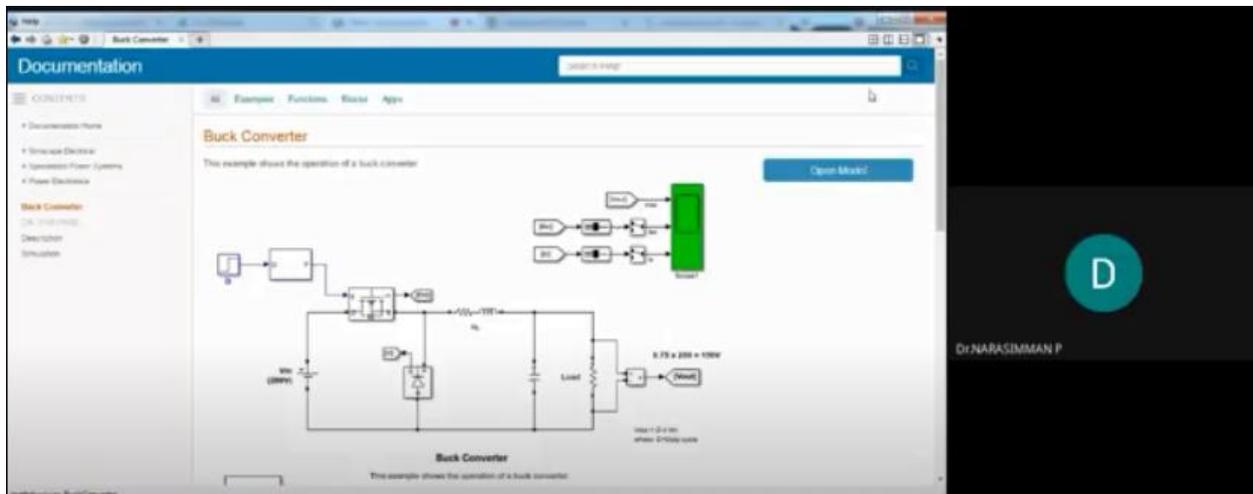
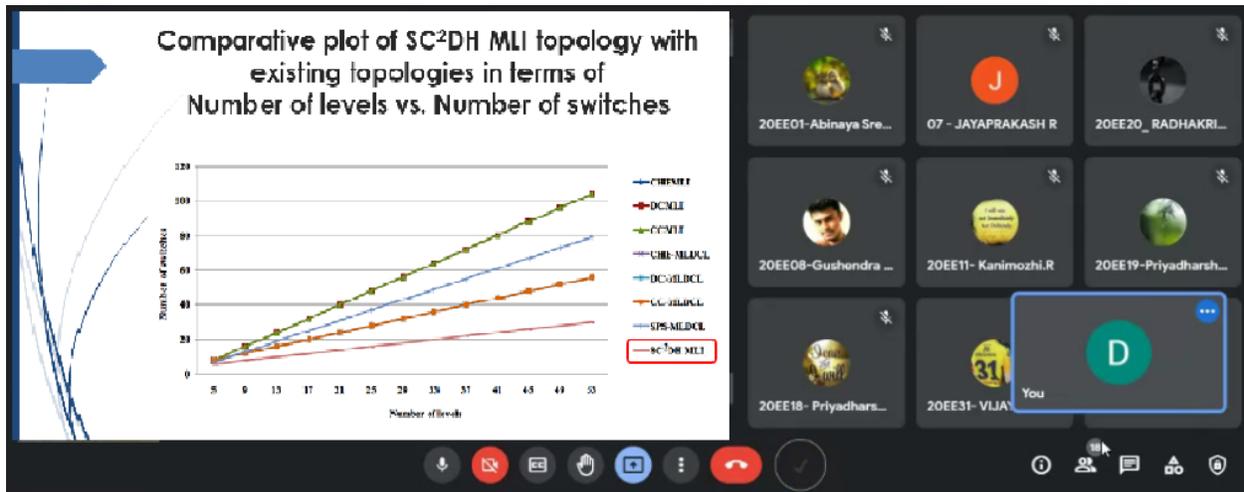
**Resource Person (Internal): Dr.P.Narasimman, Assistant Professor/EEE**

Dr.P.Narasimman, AP/EEE started his session with an Introduction to Multilevel Inverter and compared the conventional inverter at different operating modes. Then, he explained about the different types of multilevel inverter and its application for Electric Vehicles (EV) and Hybrid Electric Vehicles (HEV). He explored the benefits and discusses the control schemes of cascade inverter for EV motor drive or a parallel HEV drive and the diode-clamped inverter as a series HEV motor drive. At the end of the session, students interacted and clarified their doubts about the design of a multilevel inverter.

## Outcome:

- Enhanced the knowledge on Multilevel Inverter
- Students are able to understand the concepts and operation of Multilevel Inverter
- Students shall select Multilevel Inverter Topology for their Project work, Paper Publication, Conference presentation and PCE activities.

## Snapshots:



Dr.P.Narasimman, AP/EEE delivering lecture (online mode) during Internal Seminar