Sarvajanik Education Society

Sarvajanik College of Engineering and Technology

Department of Electrical Engineering

A Report on Interaction with an Alumnus on

Power Electronics hardware implementation and simulation in MATLAB/Simulink for Real Time Hardware Development

Organized by:
Department of Electrical Engineering
SCET Alumni Association

Alumnus:
Mr. Yaseenuddin Sayyed
National Infotech, Surat
On
20thAugust '2019

Co-ordinators:
Prof. Urvi T. Jariwala
Prof. Ekta J. Desai
(SCETAA Representatives, Electrical Department)

Department of Electrical Engineering organized an interactive session under the banner of **"Share What I Gain"**, initiated by SCET Alumni Association for the students of Electrical Department, SCET. The session was conducted by Mr. Yaseenuddin Sayyed, '2016 alumnus. The purpose of the session was to make the students aware about implementation of hardware of power electronics circuits and MATLAB simulations for the same.

About the Alumnus

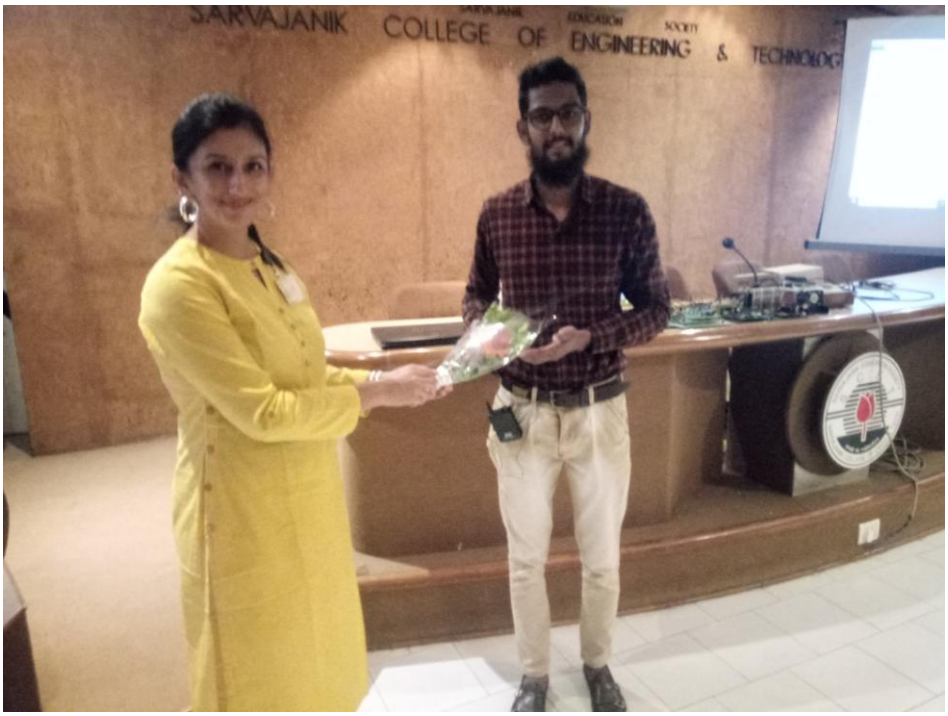
The invited worthy Alumnus is working as a senior embedded and hardware developer in R and D department of National Infotech. He looks after training department of NI Tech as well. He has conducted many STTPs in engineering colleges on various subjects like Electrical Machines, Electrical Drives, ARM Cortex –M4 Microcontroller, Power Rlectronics etc., across the country including IITs and NITs.

National Infotech (NITech) is working in the field of power electronics, embedded system development and custom industrial automation. NITech comes into existence in the year of 2001 initially started as a training center in embedded system, power electronics, industrial instrumentation and automations. Later NITech diverted for developing educational trainers for academic institutes and industrial solution. NITech has developed a range of microcontroller trainers and add-on cards, educational driver trainers, power electronics trainer and advanced power electronics trainer to provide the students a complete platform to launch their career in power electronics, embedded systems and industrial automation.

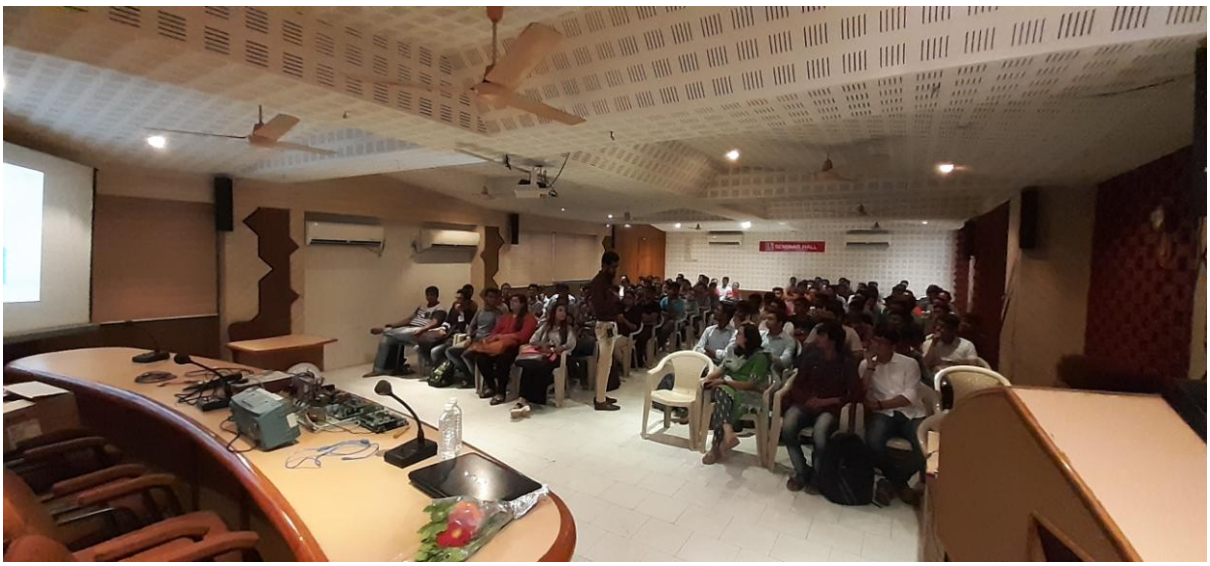
Highlights of the interaction:

- Mr. Sayyed started his speech with basic concepts of Power Electronics, later explained complicated implementation of hardware circuits.
- He then discussed Simulation in MATLAB/Simulink for Real Time Hardware Development.
- He ran many simulink models to clarify the doubts of the students. He also shared his own simulations models of various power converters and drives.
- Several demos of power electronics and electrical drives hardware models were also presented to students.

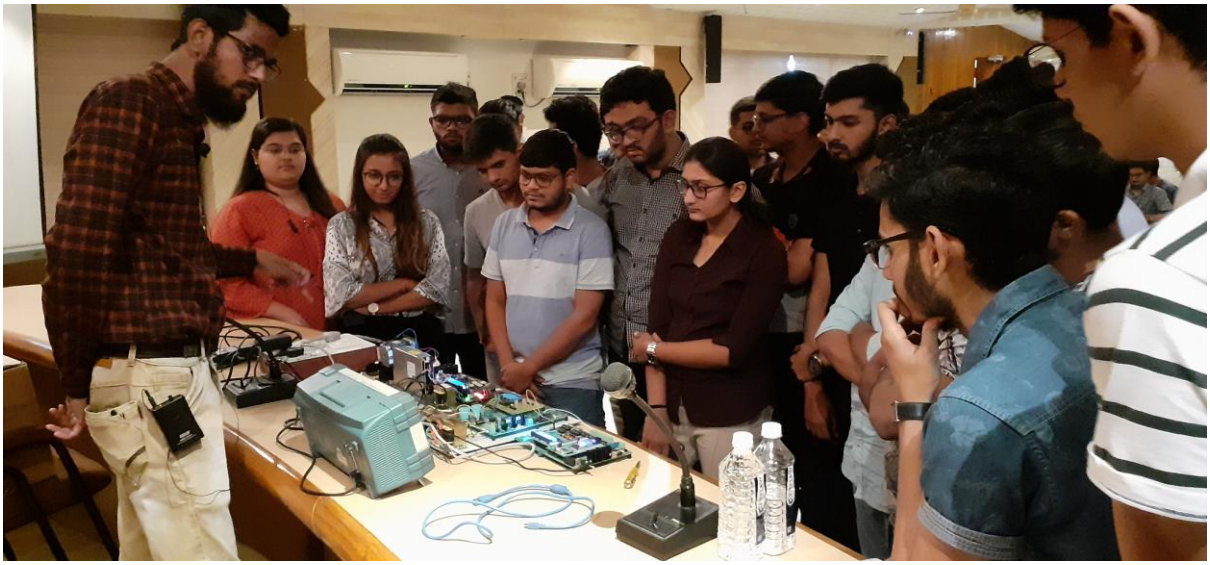
Here are a few glimpses of the session:



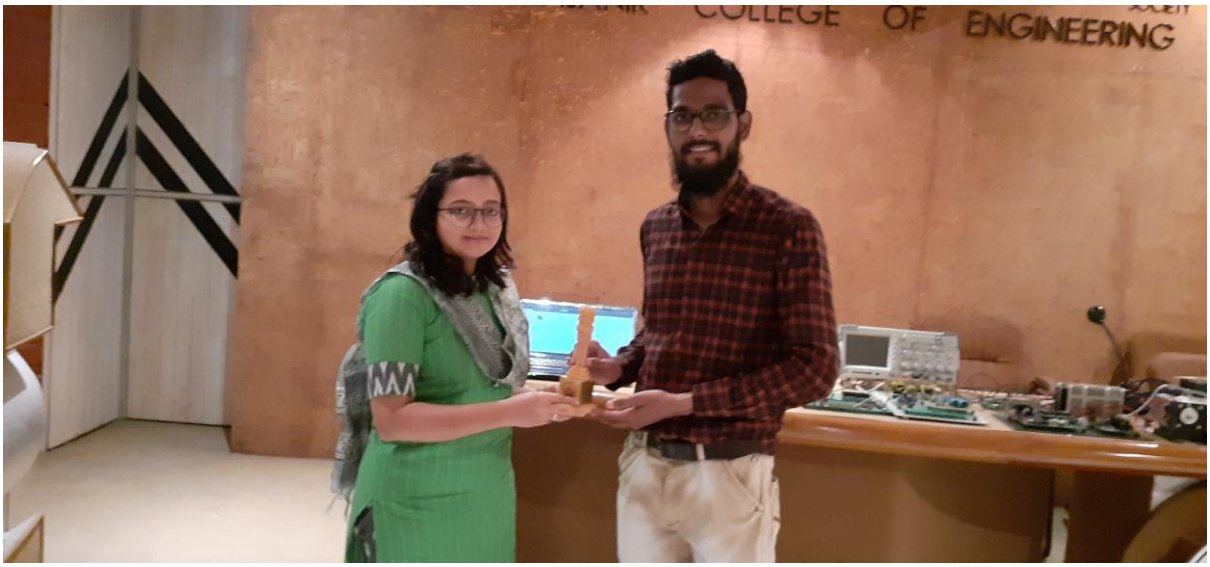
Mr. Sayyed welcomed by Prof. Urvi T. Jariwala



Interaction with the students



Demo of Electrical Drive



Mr. Yaseen being presented a memento by Prof. Ekta R. Desai