

## Industrial Visit-Vijay Power Control Systems, Bangalore

A one-day Industrial Visit to Vijay power control systems, Bangalore, was organized by the Department of Electrical & Electronics Engineering, on 24<sup>th</sup> January 2024 for 5<sup>th</sup> semester. 32 students visited the lab accompanied by faculty members, Dr. Elenchezhiyan and Prof. Bini babu.



**5<sup>th</sup> semester EEE students during Industrial visit at Vijay Power Control Systems (P), Bangalore.**

Mr. Prabhakar, senior electrical engineer, Transformer design and manufacturing, Vijay power control systems, Bangalore explained about the various types of transformers such as core type and shell type transformer. One of the major differences between the core type and the shell type transformers is that in core type transformer, the winding encircles the core, whereas, in shell type transformer, the core encircles the winding of the transformer. This industry is mainly designing the core type transformer. Laminated

C.R.G.O (Cold-rolled grain-oriented sheet steel) is used to form the core in order to avoid the hysteresis losses and eddy loss in the core.



Students were able to explain the manufacturing of limb by arranging the various laminated sheets. Various types of connections for three phase transformers - including Star- Star, Star-Delta, Delta-Delta was demonstrated to the students by the workers in that company. Thus, students are able to give connections for three phase transformers. Moreover, students are able to identify the phase angle between voltage and current which is necessary for all the three phase connections namely 12'o' clock position, 11'o' clock position.

#### **OUTCOME OF THE EVENT:**

- Students understood the method of connecting three phase winding in the core.
- Students understood the way of curbing the losses in the transformer.
- The visit helped students in attaining the program outcome.