

Industrial Visit Report

04/08/2023

Elecon Engineering Company Limited

Vallabh Vidhyanagar, Anand

In time: 9:30 am

Out time: 12:30 pm

The batch of VII semester students of Mechatronics branch was having an industrial visit in field of manufacturing and production of Gears and Gear box. Students were accompanied by Dr. Ketan Tamboli and Prof. Bhavik Ardeshana.

All students students guided firstly towards reception desk, over there Mr. Nikunj Vaishnavi (HR) welcome us and gave safety guidelines to be followed inside the plant. Company Follow the 5S Methodology in its plant by considering all the S in Account with Production,safety, work flow Management, etc. There were 28 students and they provided helmets to each and every students for safety purpose and all their employees were also working under the safety guidelines and SOPs.

Then students head towards the Gear manufacturing plant where Mr. Pragnesh Patel (EP Division Manufacturing Head) guided us about manufacturing of gear and gear box. Firstly students saw the assembly of planetary gear and then he leads us towards Grinding division, where he explains about Grinding tool, material removal rate through Grinding, and finishing allowances.

After seeing Grinding division students moved towards Gear Hobbing process, in that VTL (Vertical Turning Machine) was being used. For mobility of gears from one process to another there studentsre tracks on the floor with trolley. Through out the plant there was a green passage created for people to walk for their safety because lot of machining work was going on in plant. There was a washing area studentsre the materials studentsre get washed. Then students heads towards the Maintenance and Quality Division where P250 gear tester machine was there to measure the precision and quality of gear through various test.

Then students saw Worm Shaft Cell and Worm Wheel Cell under the cell head Mr. Ronak Patel. He explain us about turning, wherling process and the brazing process where they joint Brass ring in Cast Iron ring. After completing Worm Shaft Cell and Worm Wheel Cell students visited the Coupling Division with the guidance of Mr. Himanshu Suhar. Over there students saw Fluid Coupling, Gear Coupling, Flange Coupling and studied in detail. To prevent corrosion Black codising process is used and lastly students saw Dynamic Balancing Machine.

Through the visit, the students got to know about the manufacturing and production of Gears and Gear box.