# Industrial Visit report <br> Industry: <br> INDO-GERMAN TOOL ROOM 

Date: 10 \& 11 Feb, 2020
Students : Mechanial $4^{\text {th }}$ Sem.
Location : Vatva, GIDC, Ahmedabad.

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LDCE organized industrial visit at IGTR( Indo-German Tool Room) for students. It was very precious and knowledgeable visit for us. There were different sections/buildings for visit like design, manufacture, maintenance and robotics etc. first of all, students were divided into 3 groups and then visit was started.

First, we went to designing section where there was a big and excellent 3 robots which was KUKA company (made in Germany) robots then after we entered in Mechatronics lab. In this lab there were different automation practice boards which contained different language for automatic control like SCADA, HMI, PLC etc. Then we went to Samsung lab where they kept different types of Samsung's parts and components of appliances. In CNC section there were different CNC milling machines and also there was console lab in this lab different operations were carried out using computer language. And also in this lab, many programmable computers were available for practice purpose.

Then we entered in the designing and marketing section at where we saw different components of satellite mars mission, vehicle components, some awkward different parts, and also some house hold items, some 3D printing materials also exhibited there. All these were made through different processes like casting, moulding, die casting, injection moulding and many other processes.


Then after, we went forward to surface grinding lab where surface finishing process was done. We were surprised to see different grinding, milling and drilling machines, lathe machines, too.

Then we saw injection moulding through big two machines which made plastic buckets! There were many different moulding containers for injection moulding process which shown below images.


We saw laser lab where reverse engineering was done and also made some parts and things which was not made from CNC machine. Then we entered where we came for main purpose Q.C. lab where different types of 3 machines which was used for checking dimension. Here 3 different machines which was very accurate in dimensioning. Then EDM(Electronic Discharge Machine) were under operation and wire cut machine was also available there.

Our consultant guide was arranged session for expressing our experience and share some valuable information regarding industry level and give suggestion to us for training in IGTR in spare time to give contribution to our country. Then group photo session was done.


