



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT ON EVENT

“INDUSTRIAL VISIT TO CENTRAL INSTITUTE OF PLASTICS ENGINEERING AND TECHNOLOGY, SURAMPALLY”

Event Type	:	Industrial Visit of B. Tech-IV Semester A Section Students
Date / Duration	:	28 th March 2022
Name of Industry	:	M/s Central Institute of Plastics Engineering and Technology, Surampalli
Faculty Accompanied :		Mr.K.Venkateswara Reddy & Mr. A.Pratyush NT staff – Mr.S.Ajay Babu and Mr.P.Manikyala Rao
Total no of students	:	51
Objective of the event:		To get exposure to the production of variety of plastic components
Outcome of event	:	Students acquired knowledge on the variety of plastic raw materials, machining processes, dies, moulds, CNC machines, quality control, packing methods, fundamental manufacturing processes for making bottles, buckets and different machines and tools for further finishing.

Description / Report on Event:

The II B.Tech IV Semester A Section Students of Mechanical Engineering accompanied with four staff members (including 2 Teaching & 2 non Teaching) visited Central Institute of Plastics Engineering and Technology, CIPET Surampalli unit, Vijayawada on 28-03-2022, Monday. The main objective of the visit is to bridge the gap between industry and academia. This is a Central Government unit which holds the roles of Institute and industry mainly focus on manufacturing of various plastic components suitable for wide variety of users as per customer requirements.

After arriving the industry, the students were divided into four batches and they were taken to plastic raw material section, machining section that includes CNC machines, dies section, injection moulding and Blow moulding section, Design section. The CIPET faculty explained neatly the step by step processes in each and every section to the student understanding level. They have taken the students to the quality control and packing sections also. The students have also observed the different plastic components displayed in the unit got idea about different stages of manufacturing i.e., from raw material to end product. The CIPET faculty also explained the importance of energy conservation aspects, best practices and environmental concerns to the students.

The machining section consists of different machines such as Lathe machine, Radial drilling machine, Shaping machine, slotting machine, Planning machine, grinding machine, Wire EDM and Die Sink EDM, etc.

Feedback / Suggestions: The students felt very happy and they expressed that they have learnt a lot about the Plastic process, EDM process and design modelling and fabrication software like master CAM.

Photographs: The following are the photographs of Industrial Visit of IV Semester A-Section Students to M/s CIPET, Surampalli, Vijayawada.



Students listening to the instructor at the Injection Moulding machine



The CIPET faculty explaining to Students at the blow moulding machine in the Plant



IV Semester A section students group photo in front of Main Building at M/s CIPET, Surampalli



IV Semester A section students listening to the Production Engineer at the machine shop in M/s CIPET, Surampalli



CIPET faculty giving instructions to students at
CNC machine



Students observing the Die Sink EDM by the CIPET
Instructor