



# 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-V Semester B& C Section Students
Date / Duration	:	7 <sup>th</sup> October 2021
Name of Industry	:	M/s Central Institute of Plastics Engineering and Technology, Surampalli
Faculty Accompanied:		Mr.V.Sankara Rao & Mr.D.Mallikarjuna Rao
		NT staff – Mr.V.Ravindra Reddy and Mr.P.Manikyala Rao
Total no of students:		68
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.

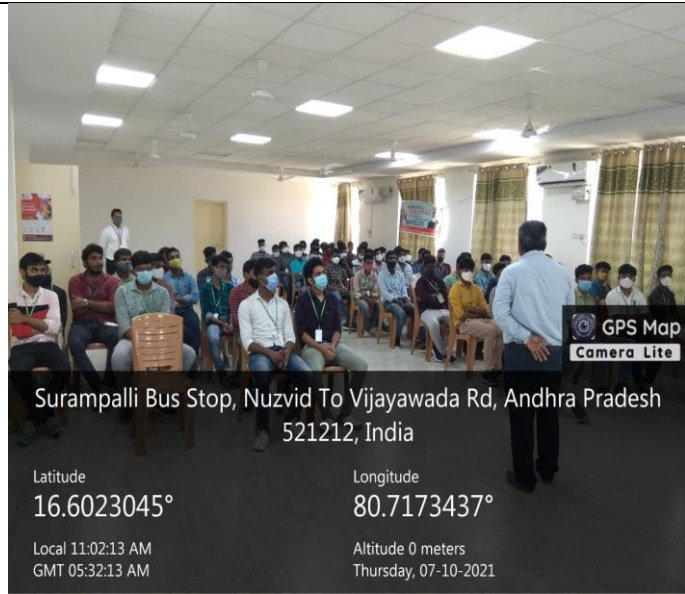
#### **Description / Report on Event:**

The III B.TechV Semester B&C 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 07-10-2021. 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, diesection, 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. The following are the photographs of Industrial Visit of V Semester B-Section & C-Section Students to M/s CIPET, Surampalli, Vijayawada.



Students listening to the orientation class by CIPET faculty in the CIPET Campus Seminar hall



Blow moulding unit in CIPET



CIPET faculty giving instructions to students at Injection Moulding machine



Students observing the process of plastic buckets at Blow moulding unit in CIPET



CIPET faculty taking orientation class to students at CIPET Seminar hall



Group Photo of Students with CIPET Faculty at CIPET Seminar hall





Surampalli Bus Stop, Nuzvid To Vijayawada Rd, Andhra Pradesh 521212,  
India

Latitude  
16.6023249°

Longitude  
80.7173896°

Local 10:58:57 AM  
GMT 05:28:57 AM

Altitude 0 meters  
Thursday, 07-10-2021

CIPET faculty taking orientation class to students at CIPET Seminar hall



Surampalli Bus Stop, Nuzvid To Vijayawada Rd, Andhra Pradesh 521212,  
India

Latitude  
16.60247792°

Longitude  
80.71780288°

Local 11:26:38 AM  
GMT 05:56:38 AM

Altitude -94.52 meters  
Thursday, 07-10-2021

Students observing the process of plastic buckets at Blow moulding unit in CIPET

In-charge

HoD