



**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING**

**(AUTONOMOUS)**

**Accredited by NAAC with 'A' Grade, ISO 9001:2015 Certified Institution**

**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**

### **SUMMARY OF INDUSTRIAL VISITS**

**A.Y: 2023-24**

<b>S.No</b>	<b>Class/ Section</b>	<b>Name of the Industry</b>	<b>Date of visit</b>	<b>No. of Students</b>
1.	II B.Tech-IV Sem (A&B Sections)	Central Institute of Plastics Engineering and Technology(CIPET), Surampally	18.03.2024	77
2.	II B.Tech-III Sem (A&B Sections)	Prakasa Spectro Cast P Ltd, Enikepadu	15.11.2023	57



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## **DEPARTMENT OF MECHANICAL ENGINEERING**

### **REPORT ON EVENT**

#### **“INDUSTRY VISIT TO PRAKASA SPECTRO CAST P LIMITED, ENIKEPADU, VIJAYAWADA”**

Event Type : Industry Visit of B. Tech-III Semester A & B Sections

Students Date / Duration : 15<sup>th</sup> November 2023

Name of Industry : M/s Prakasa Spectro Cast P Limited, Enikepadu, Vijayawada.

Faculty Accompanied : Mr.S.Rami Reddy & Mr. K.Venkatesawara Reddy

NT staff – Mr.G.ravinder Reddy and Mr.N.Narasimha Rao

Total no of students : 57

Objective of the event: To get exposure to the production practices in industries.

Outcome of event : Students acquired knowledge of fundamental manufacturing processes like furnaces, casting process and use of different machines and tools for further finishing.

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

The II B.Tech-III Semester A & B Section Students of Mechanical Engineering accompanied with four staff members (including 2 teaching & 2 non teaching) visited **Prakasa Spectro Cast P Limited**, Enikepadu, Vijayawada on 15-11-2023, Wednesday. The main objective of the visit is to bridge the gap between industry and academia. These industries mainly focus on manufacturing of various material castings as per customer requirements.

After arriving the industry, the students were divided into two batches and the first batch was sent to **Prakasa Spectro Cast P Limited** and the second batch to Krishna Engineering works, which is a sister concern of Prakasa Spectro cast. Mr. T.Pardhasaradhi, MD, of Prakasa Spectro cast addressed the students and introduced about the industry. The students were given a session on NDT process, tools used, applications and job opportunities by Mr.K.Sambasiva Rao, Engineer. Later they allotted supervisors and sent them to visit the industry. The supervisors explained the steps involved in casting process & safety precautions.

The industry consists of two units, namely casting unit & machine shop. The casting unit consists of various processes includes pattern making, mould preparation, melting of metals, pouring of metals in to the mould cavity, solidification process, and fettling. The companies using sand with silica as additive for mould preparation. Using silica the sand stables for high temperatures.

Photographs: The following are the photographs of Industry Visit of B.Tech-III Semester A & B-Section Students to M/s Prakasa Spectro Cast P Limited, Enikepadu, Vijayawada.





Students listening to the presentation of Shri.T.Pardhasaradhi, MD about the industry



Students listening to the presentation of Shri.T.Pardhasaradhi, MD about the industry



B.Tech-III Semester A & B section students are taking a group photo in the premises of Prakasa Spectro cast



B.Tech-III Semester A & B section students watching the drilling operations at the Machine shop



B.Tech-III Semester A & B section students watching at the Machine shop	B.Tech-III Semester A & B section students watchingthe components at the Machine shop
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**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&B Section Students

Date / Duration : 18<sup>th</sup> March 2024

Name of Industry : M/s Central Institute of Plastics Engineering and Technology, Surampalli

Faculty Accompanied : Dr.K.Murahari, Mr.S.Rami Reddy, Mr.K.V.Viswanadh  
NT staff – Mr.K.D.Malleswara rao

Total no of students : 77

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 & B Section Students of Mechanical Engineering accompanied with four staff members (including 3 Teaching & 1 non Teaching) visited Central Institute of Plastics Engineering and Technology, CIPET Surampalli unit, Vijayawada on 18-03-2024, 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.

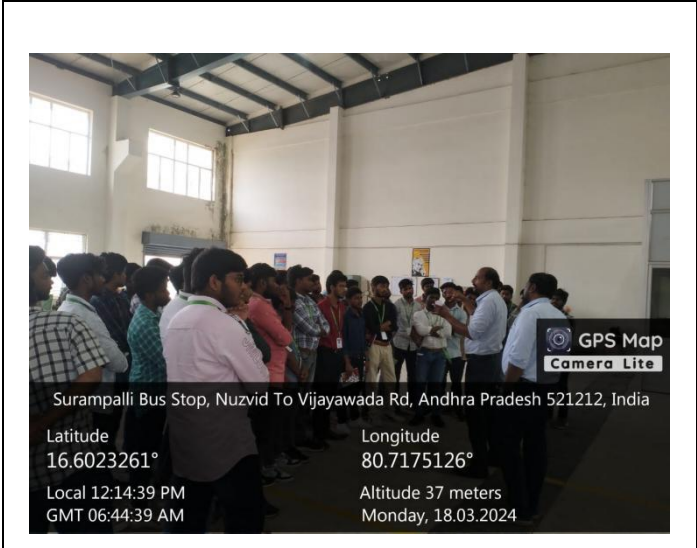
After arriving the industry, the students were divided into four batches and they were taken to plastic raw material section, machining section that includes CNC machines, dies section, injection moulding and Blow moulding section, Design section. The CIPET faculty explained neatly the step by step processes 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.

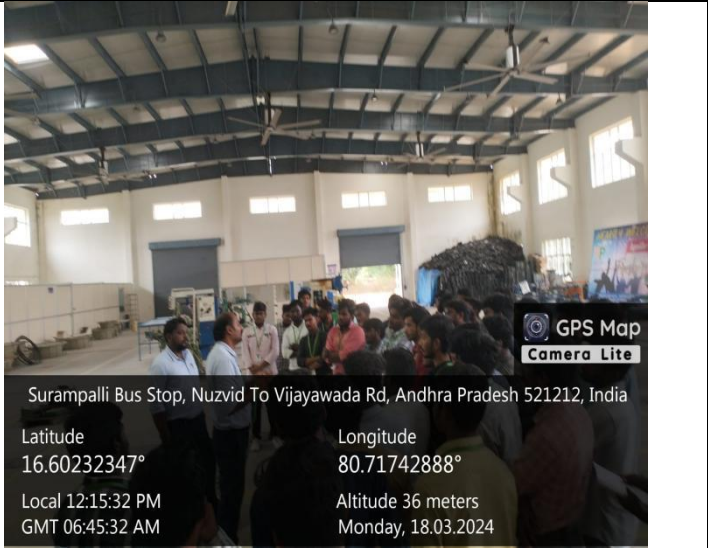
Feedback / Suggestions: The students felt very happy and they expressed that they have learnt a lot about the Plastic process, EDM process and design modelling and fabrication software like master CAM.



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 instructins of instructor at machine shop





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



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



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

<div data-bbox="79 156 778 705"><p>Surampalli Bus Stop, Nuzvid To Vijayawada Rd, Andhra Pradesh 521212, India</p><p>Latitude 16.6023356° Longitude 80.7174372°</p><p>Local 12:40:15 PM Altitude 36 meters</p><p>GMT 07:10:15 AM Monday, 18.03.2024</p></div>	<div data-bbox="798 156 1532 705"><p>Surampalli Bus Stop, Nuzvid To Vijayawada Rd, Andhra Pradesh 521212, India</p><p>Latitude 16.60243518° Longitude 80.71770616°</p><p>Local 12:57:07 PM Altitude 37 meters</p><p>GMT 07:27:07 AM Monday, 18.03.2024</p></div>
<div data-bbox="79 705 778 913"><p>CIPET faculty giving instructions to students at workshop</p></div>	<div data-bbox="798 705 1532 913"><p>Students observing the Die Sink EDM by the CIPET Instructor</p></div>