



# LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

L.B.Reddy Nagar, Mylavaram - 521 230, N.T.R. District, Andhra Pradesh, India  
Affiliated to JNTUK, Kakinada & Approved by AICTE New Delhi  
**Accredited by NBA under Tier - I, Accredited by NAAC**  
An ISO 21001:2018, 500001:2018, 14001:2015 Certified Institution

## DEPARTMENT OF AEROSPACE ENGINEERING

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**A.Y: 2023-24**

Date: 23-03-2024

### **REPORT ON INDUSTRIAL VISIT**

Event Type	: Industrial Visit of B. Tech-ASE-IV Semester Students
Date / Duration	: 22-03-2024
Name of Industry	<b>Prakash Spectro Cast Limited</b>
Place of visit	: Enikepadu Village, Vijayawada, Krishna District.
Faculty In-charges	: Mr. G V Surya Narayana : Mr. S Indrasena Reddy
Non-teaching In-charges	: Mr. D. Setha rami Reddy-Lab helper : Mr. D. Ashok Kumar- Fitter
No. of students Participated	: 61 No's

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

The II B. Tech IV Semester Students of Aerospace Engineering accompanied with four staff members (including 2 teaching & 2 non-teaching) visited Prakasa Spectro Cast Pvt. Limited, Vijayawada on 22-03-2024. 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 at the industry, the students were divided into two batches and the first batch was sent to machine shop division and second batch sent to casting division at Prakasa Spectro Cast Pvt. Limited. Mr. Partha Sarathi, MD, Prakasa Spectro addressed the respective students and introduced the industry. Later they allotted a supervisor and sent them to visit the industry. The supervisor explained the steps involved in the casting process & safety precautions.

The industry consists of two units, namely casting unit & machine shop. The casting unit consists of various processes including pattern making, mould preparation, melting of metals, pouring of metals into the mould cavity, solidification process, and fitting. Companies use sand with silica as an additive for mould preparation. Using silica, the sand stables for high temperatures.

The Machine shop consists of various machines to perform various machining operations such as Lathe machine, Radial drilling machine, shaping machine, slotting machine, planning machine, grinding machine (radial and Surface), etc.

**Student Feedback / Suggestions:**

The students were filled with joy and enthusiastically conveyed their newfound knowledge of the casting process. They eagerly observed the operations of various machines and machine tools, gaining valuable insights along the way.

**Photographs :**







