SurTech
Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex
(Formerly Known as Dr. Sudhir Chandra Sur Degree Engineering College)
540, Dum Dum Road, Surer Math (Near Dum Dum Jn. Station), Kolkata-700074
Phone: +91 22 25603889, 25603898, 65330375
Website: www.surtech.edu.in; Email-info@dsec.ac.in

Title: **Binay Udyog Pvt. Ltd., Andul, Howrah, West Bengal**

Objective: **To provide practical knowledge to the students on casting involving mainly centrifugal casting and other casting processes its machinery and technology used in manufacturing various components and relate them with the theoretical knowledge**

Date: **21/11/2026**

No of Student Participants: **11**

Report: **The Department of Mechanical Engineering of Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex organized an industrial visit on 21st November 2026 at Binay Udyog Pvt. Ltd., Andul, Howrah, West Bengal. The visit was attended by 11 students. It was intended for the students of 2nd and 3rd year.**

The visit was preceded by a brief introduction about casting and its various types and which type of casting were suitable for what types of products being manufactured and also considering the economical aspect in manufacturing those products. The visit of the entire factory was guided by a senior instructor of the factory.

The industry visit was conducted to gain practical exposure and understand the operations of a casting plant. The visit provided insights into various sections involved in the production process of various components involving various casting processes. It mainly highlighted the centrifugal casting process for manufacturing cast iron pipes and its connecting parts. Students witnessed the entire centrifugal casting process, from mould preparation to metal pouring techniques, centrifugal action, cooling and solidification, extraction and finishing of the cast product, and inspection. The machinery and equipment observed were induction furnaces for melting metals, moulding machines for sand casting, centrifugal casting machines and quality inspection tools, including ultrasonic testing and radiography.

The industrial visit to the casting plant was a highly informative and enriching experience. It provided the students with valuable exposure to industrial practices and helped them to connect theoretical learning with practical application.

Outcome: **Students had a clear understanding of casting methods and foundry operations. They experienced practical exposure to handling raw materials, mould preparation, and safety protocols and had an insight into quality assurance and the importance of defect control in cast products.**

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Few glimpses of the industrial visit





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