SurTech

Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

(Formerly Known as Dr. Sudhir Chandra Sur Degree Engineering College)

540, DumDum 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: Webinar on CNC In Modern Manufacturing Trends & Applications

Objective: The objective of the webinar is to provide students with an in-depth understanding of modern CNC technologies by exploring their working principles, recent industry trends, and real-world manufacturing applications, thereby enhancing their technical knowledge and preparing them for future industrial requirements.

Date: On 9th December 2025 from 12:00 PM to 01:00 PM

No of Student Participant:

A total of **40-50 students** actively participated in the webinar, showing strong interest and involvement throughout the session, which contributed to an engaging learning environment and reflected their enthusiasm toward understanding modern CNC technologies.

Report: The Department of Mechanical Engineering, **Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex**, organized an online webinar titled **"CNC in Modern Manufacturing – Trends & Applications"** in collaboration with **Ghatal Government Polytechnic** on **9th December 2025 at 12:00 AM** through **Google Meet**. The program witnessed enthusiastic participation from approximately **40–50 students** of the department.

The session began with a warm welcome note, followed by a brief introduction highlighting the objective and significance of CNC technology in today's manufacturing environment. The resource person delivered a highly informative presentation covering modern CNC systems, technological advancements, and their essential role in improving precision, productivity, and automation in industrial machining processes.

During the webinar, students were introduced to various CNC machine operations, programming concepts, and real-time industrial applications. The speaker also explained emerging trends such as digital manufacturing, automated process control, and integration of CNC with CAD/CAM systems, which play a crucial role in modern production lines.

The session further included discussions on real-world industrial practices, current technological developments, and practical examples demonstrating how CNC machines enhance accuracy, reduce production time, and support mass manufacturing with high repeatability. These insights provided students with valuable exposure to contemporary industry requirements and evolving manufacturing technologies.

An interactive **Q&A session** was conducted at the end of the program, where students actively asked questions regarding CNC programming, industrial applications, job opportunities, and the relevance of CNC skills in modern mechanical engineering careers. The webinar proved to be highly educational and motivating, inspiring students to develop strong technical expertise aligned with current manufacturing trends.

Overall, the session was informative and meaningful, helping students gain a deeper understanding of CNC technologies, industrial expectations, and the importance of advanced machining skills in today's competitive engineering sector.

SurTech

Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

(Formerly Known as Dr. Sudhir Chandra Sur Degree Engineering College)

540, DumDum 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

Outcome:

The webinar significantly enhanced students' understanding of modern CNC technologies and their role in contemporary manufacturing systems. Participants gained valuable insights into CNC machine operations, programming fundamentals, and the latest trends influencing industrial automation and digital manufacturing. The session helped students connect theoretical concepts with real-world applications, improved their awareness of industry expectations, and motivated them to develop relevant technical skills. Overall, the webinar strengthened their confidence and prepared them for future opportunities in advanced machining and manufacturing industries.

Organized by:

Department of Mechanical Engineering
Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex
Dum Dum Road, Kolkata – 700074

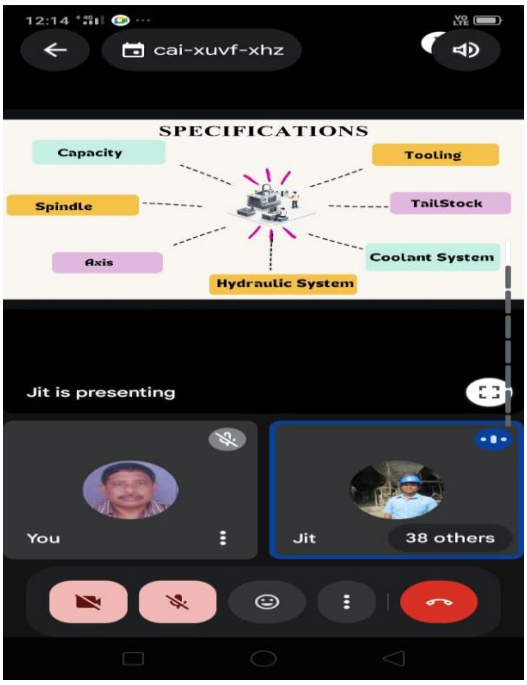
Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

(Formerly Known as Dr. Sudhir Chandra Sur Degree Engineering College)

540, DumDum 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



SurTech

Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

(Formerly Known as Dr. Sudhir Chandra Sur Degree Engineering College)

540, DumDum 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