# Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

# Report of Workshop on Introduction to 3D Modelling in AutoCAD

**Topic:** Workshop on "Introduction to 3D Modelling in AutoCAD"

**Organized by:** Department of Automobile Engineering, Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex, (In association with IQAC)

**Speaker:** Mr. Soumen Dian, Senior Consultant, Ardent Computech Pvt. Ltd., Kolkata

**Date:** 30th March 2026

**Time:** 2:00 PM onwards

**Mode:** Offline

**No. of Participants:** 25

**Introduction:**

The Department of Automobile Engineering of Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex, in association with IQAC, organized a workshop on "Introduction to 3D Modelling in AutoCAD" on 30th March 2026 from 02:00 PM onwards. The primary objective of the workshop was to introduce students to the fundamental concepts of 3D modelling using AutoCAD, a widely used CAD application across engineering disciplines. The session was conducted by Mr. Soumen Dian, Senior Consultant at Ardent Computech Pvt. Ltd., Kolkata, who possesses extensive experience in CAD design, industrial modelling, and engineering applications.

**Background:**

AutoCAD is one of the most versatile and globally recognized design tools used in mechanical, automobile, civil, and architectural domains. For automobile engineers, understanding 3D modelling helps in:

- Conceptualizing vehicle components
- Developing engineering drawings
- Enhancing visualization and design accuracy
- Increasing CAD competency for industry roles

The workshop was planned to strengthen students' exposure to modern design tools and help bridge the gap between theoretical classroom learning and practical industrial applications.

**Objectives of the Workshop:**

The primary objectives were:

1. To familiarize students with the basics of 3D modelling in AutoCAD.
2. To introduce the user interface, essential commands, and visualization tools.
3. To provide hands-on demonstrations on creating 3D objects.

4. To help students understand the role of CAD in the automotive and manufacturing sectors.
5. To enhance students' employability by upgrading their CAD skill set.

**Overview of the Workshop:**

The session began with a welcome address from the Department of Automobile Engineering. Mr. Soumen Dian initiated the session by explaining the significance of 3D modelling in modern engineering industries.

**Key Highlights:**

- **Introduction to AutoCAD environment:** Basic navigation, toolbars, and interface overview.
- **Fundamentals of 3D modelling:** Explanation of UCS, 3D workspace, and coordinate systems.
- **Hands-on demonstration:** Creation of basic 3D shapes, extrusion, revolving, and modification tools.
- **Practical applications:** Use of AutoCAD in automotive component modelling and workshop-level design tasks.
- **Industry insights:** Discussion on CAD requirements, typical workflows, and expectations in automotive design roles.
- **Interactive problem-solving:** Students clarified doubts regarding modelling challenges and career opportunities in CAD.

**Learning Outcomes:**

By the end of the workshop, students gained:

- Basic understanding of 3D modelling tools in AutoCAD.
- Confidence in navigating and using the AutoCAD 3D interface.
- Awareness of industry applications of CAD in automobile engineering.
- Improved visualization and component-designing abilities.
- Enhanced readiness for CAD-based industrial internships and placements.

**Conclusion:**

The workshop on "Introduction to 3D Modelling in AutoCAD", conducted by Mr. Soumen Dian, was informative, interactive, and highly beneficial for the students of Automobile Engineering. It provided essential exposure to 3D modelling concepts and strengthened the participants' technical skill sets aligned with current industrial practices.

The department expressed its gratitude to the speaker and reaffirmed its commitment to organizing more skill-oriented workshops to enhance students' professional competencies.



Workshop on Workshop on “Introduction to 3D Modelling in AutoCAD”conducted by department of Automobile Engineering in association with IQAC on 30/03/2026