MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(Deemed to be University)
Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade, NIRF India Rankings 2025 - Band: 201-300 (Engg.)
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH, CST), MBA & MCA

A Report on Industrial Visit to "SINA Mobility - Bengaluru" Organized by Department of Computer Applications On 12.11.2026

Report Submitted by: Mr. R. Mallikarjuna, Assistant Professor, Department of Computer Applications

Total No. of Participants: I BCA 43 Students

Mode of Conduct: Offline.

Faculties Accompanied: Mr. R Mallikarjuna, Dr. PT Anitha, Dr. K Jegadeeswari from the Department of Computer Applications

Report Received on 18.11.2026

Introduction:

The Department of Computer Applications, MITS Deemed to be University, organized an industrial visit for I BCA students to SINA Mobility, Bengaluru, on 12 November 2026. The main objective of the visit was to provide students with practical exposure to computer-aided design, digital modelling, modern manufacturing technologies, and industrial automation. The visit aimed to bridge the gap between theoretical knowledge and practical applications of computer technologies in the automobile industry.

Objectives of the Visit:

The major objectives of the industrial visit were:

- To understand the vehicle accessory design and manufacturing process.
- To gain awareness of 3D scanning and Computer-Aided Design (CAD) technologies.
- To understand the applications of software such as SolidWorks, AutoCAD, and CypCut in manufacturing.
- To observe the different stages of sheet metal fabrication and product development.
- To understand the importance of automation, accuracy, and quality control in industrial production.
- To connect classroom knowledge with real-world industrial applications.

Practical Applications of Computer Technologies in Automobile Manufacturing:

Company representatives explained how digital vehicle data is transformed into accessory designs and prepared for production. The students were shown the design workspace and interacted with staff about computer-assisted product development.



Digital Design and Software Workflow

The workflow covered collection of vehicle measurements and 3D scanning, conversion of data into CAD models, product benchmarking, and creation of designs using SolidWorks. Students learned that AutoCAD is used for 2D DXF drawing modifications, while CypCut supports nesting and laser cutting programs. These applications demonstrate how digital files connect design offices with manufacturing equipment.

Exposure to Manufacturing and Fabrication Processes

Students observed industrial machinery and fabricated metal components. Company staff described sheet metal preparation, laser cutting, bending, prototype and final welding, vehicle fitment checks, grinding, and powder coating. The process highlighted precision, material efficiency, and quality control.

Technical Interaction with Industry Professionals

The interaction provided an opportunity to understand the relationship between software-based design and shop-floor activities. Students gained insight into the importance of technical drawings, accurate dimensions, production planning, and checking components before final fabrication.

Outcome of the Visit

- Understood the broad workflow from vehicle data collection to finished automotive accessories.
- Recognized the uses of 3D scanning, SolidWorks, AutoCAD, and CypCut in design and fabrication.
- Gained awareness of how digital drawings and machine programs support manufacturing.
- Understood the need for fitment testing, accuracy, and quality control.
- Explored career-related applications of computer technology in industrial environments.





Conclusion:

The industrial visit to SINA Mobility on 12 November 2026 offered valuable exposure to software-assisted vehicle accessory design and manufacturing. The technical discussions and observation of the work environment helped I BCA students connect classroom-level computer application concepts with practical industrial technologies.

Acknowledgement

We express our sincere gratitude to our Chancellor, Pro Chancellor, Vice Chancellor, Registrar, Principal, Vice Principal – Administration, Assistant Director – Industrial Relations, and Head of the Department of MCA for their valuable support, guidance, and encouragement in organizing the industrial visit to SINA Mobility, Bengaluru.

We also extend our heartfelt thanks to Mr. Adnan Hashmi for his valuable time, support, and guidance in explaining the industrial processes and providing students with practical exposure to modern technologies.