

INDUSTRY VISIT REPORT

Visit to International Automobile Centre of Excellence (iACE)

Date: 27/02/2025

Organized By: Mechatronics Department, G H Patel College of Engineering & Technology

Number of Faculty Members: 10

1)Dr. Vinod N Patel 2)Dr. Ketan M Tamboli 3)Dr. Yogesh A Chauhan 4)Prof. Saurin M Sheth
5)Prof. Ajay M Patel 6)Prof. Pathik P Patel 7)Prof. Bhavik A Ardeshana 8)Prof. Umang B Jani
9)Prof. Sanjiv Rajput 10)Dr. Hemant Thakkar

Industry Visited: International Automobile Centre of Excellence (iACE)

Location: Gandhinagar

Introduction

The faculty members of the Mechatronics Department, G H Patel College of Engineering, visited the International Automobile Centre of Excellence (iACE), a joint initiative by the Government of Gujarat and Maruti Suzuki India. iACE is an apex body for skill development in the automotive sector, utilizing modern technology and systems. The centre caters to the entire value chain of the automotive industry, encompassing both manufacturing and servicing.

Objectives of the Visit

- To gain insights into the latest advancements in the automotive sector.
- To understand the skill development programs offered by iACE.
- To explore opportunities for collaboration between academia and industry.
- To learn about modern automotive technologies, including hybrid and electric vehicle systems.

Overview of iACE

iACE provides world-class training programs tailored to industry requirements. The center offers multiple skill development programs focusing on cutting-edge automotive technologies. The key programs include:

- International Post Graduate Program (iPGP) – 1 Year
- Advanced Certificate Programme (ACP) – 6 Months
- B.Sc. Transportation & Mobility – 3 Year
- Skill Enhancement Certificate Program – 6 Months
- Industrial Training Program – 4 to 6 Weeks
- Professional Development Program – 1 Week
- Train the Trainer – 2 Weeks

Designed for Diploma, B. Tech, or M. Tech graduates in Automobile or Mechanical Engineering, this program provides comprehensive training in automotive fundamentals, industrial safety, and automotive systems. Tailored for diploma holders and working professionals, this upskilling program focuses on Hybrid & Electric Vehicles (EV/HV), machining, CAD, and plastic engineering. It includes computerized learning modules from Germany and an integrated internship for hands-on experience.

Key Learnings from the Visit

- Exposure to modern automotive technologies and industry practices.

- Understanding of advanced training methodologies integrating theory with hands-on learning.
- Insights into global employment opportunities through structured training programs.
- Appreciation of skill development initiatives supporting industry-ready graduates.
- Exploration of potential academic collaborations for curriculum development and student training.

Conclusion

The visit to iACE provided valuable insights into the latest advancements in the automotive sector and skill development initiatives. The faculty members gained a better understanding of how academic institutions can collaborate with industry leaders to bridge the gap between theoretical knowledge and practical application. The visit also opened avenues for potential student training programs and faculty development initiatives in the field of automotive engineering.

Recommendations

- Integrating elements of iACE's training methodologies into our academic curriculum.
- Encouraging student participation in specialized training programs offered by iACE.
- Exploring internship opportunities and industrial collaborations for students.
- Organizing similar industry visits for students to enhance practical learning experiences.

