



Government Engineering College, Gandhinagar

Industrial Visit At IACE(International Automobile Centre Of Excellence)

Venue: IACE, Raysan Road, Knowledge Corridor,
Gandhinagar – 382007

Date: **26/08/2022** (Friday)

Visit by Students of IC Semester 7th

Introduction

ABOUT iACE

- ➔ The International Automobile Centre of Excellence (iACE), is incorporated as a 'Section 08 Company' under the Companies Act 2013, by Government of Gujarat in collaboration with Maruti Suzuki India Limited (MSIL) with 50% equity stake each.
- ➔ The centre is a world class institute catering to 'end to end' training, development and research needs of the automobile ecosystem in India. The center hosts the latest 'state-of-the-art' infrastructure & technical labs to provide hands on learning experience. The institute draws upon the expertise of industry-academia collaborations with leading Indian & Foreign Partners for Knowledge & Technological relevance of Industrial Learning.

Vision and Values

- ➔ To contribute in nation building as an apex body for entire value chain of automotive sector by providing world class manpower development. This will be done by providing unique facing blend of Practical & Theory training aimed at day one industry readiness along with the research and innovation mindset.
- ➔ Key Domains
 - Advanced Automotive System (EV/HV/ Autotronics)
 - Smart Automotive Manufacturing Technologies (Industry 4.0)
 - Automotive Lifecycle management (Channel Management)

Infrastructure

- ➔ iACE has it's own infrastructure and training facilities spanned over 9980 sq.m site situated strategically along the 'Knowledge Corridor' of Gandhinagar, Gujarat. The centre is built with a total built up of 17,000 sq meters encompassing, vehicle system labs, manufacturing workshops, electronics labs, auditorium, exhibition hall etc. This

centre hosts the latest technology across the automotive systems & manufacturing process. Cut-out sections of the actual systems, combination of hardware-software equipment are made available, so that students can understand the basics of each system.



Brief about IACE

Video presentation and Power point presentation



Automotive Manufacturing

5 Sense Equipment's

Weld Shop

Paint Shop

Assembly Line

Engine Shop

Moulding



Safety Equipment's:

Auto Dimming Shield

Helmet with colour code, based on durability

White: inspection team

Yellow: Highest level safety with higher durability

Eye protection glasses



Road safety simulator

To train driver

EV & HV Section



Cut section of automotive vehicles:

Fortuner engine – transmission control

Engine strokes

Suspension – dependent and independent

Steering – Power – Hydraulic – Rack and Pinion

Braking system – Drum and Disc



Clutch Assembly



Paint Section



Machining Section



CNC Machines



Injection Moulding



Plastic engineering Unit



Welding Shop : MIG & TIG, G code, N code



Meterology Lab



Autodronics lab

