

||JAI SRI GURUDEV||

SJC INSTITUTE OF TECHNOLOGY

Department of Aeronautical Engineering

INDUSTRIAL VISIT TO AERDC, HAL, BENGALURU ON 13TH JULY 2022

An industrial visit was organized to AERDC, Hindustan Aeronautics Limited Bengaluru for 4th sem students on 13th July 2022 by the department.

Initially the students were taken to the security check and given briefing of rules and guidelines to be followed inside the industry. There was a visit to Machine shop where the machining of aircraft components were done. There were many proficient and skilled employees who provided more information regarding the processing of machining the components. They also shed light on the many processes being involved in the machining of materials like lathe operations, grinding, coupling, milling etc.

Thereafter, visit to CNC (Computer Numerical Control) Machine shop was organized where the operations on aircraft components were done using coded program instructions.

Thirdly the team visited the assembly section of various engines used in the different aircrafts. The following engine assemblies were viewed during the visit

- ARTOUSTE 111B used in Cheetah and Chetak helicopters.
- ADOUR used in Jaguar.
- TM 333 2B2 used in Dhruv.
- Garrett engine

The students endured the assembly of various parts of engines of different aircrafts.

Visit to the Test beds of the engines like Adour, Garrett, and Artouste was arranged in the second half. The lecture was given regarding the testing of engines after there assembly.

Knowledge about the following was gained during the visit

- Machining of aircraft components
- Stages of assembling the different parts of engine
- Testing of engines which are in readiness

The main objective of the department was to provide effective knowledge to the students about the materials used in the aircraft applications. This opportunity of visiting the industry was more productive and insightful and bridged the gap between the theory and the practical knowledge. This Industrial visit has filled the gaps identified in courses such as Aircraft Propulsion and Gas Turbine Technology.

