

|| JAI SRI GURUDEV ||

SJC INSTITUTE OF TECHNOLOGY



DEPARTMENT OF AERONAUTICAL ENGINEERING



The department had organised an industrial visit for 6th semester students to ASTE (Aircraft and System Testing Establishment), Indian Air Force, Bengaluru on 21st April 2023.

The students reported to ASTE at 10:30am. Initially the students were taken to the security check and given a briefing of rules and guidelines to be followed inside the industry. ASTE is premier establishment in Indian Air Force (ISF) which conducts Flight Testing of Aircraft, Airborne Systems and Weapon Stores prior to their induction into the Indian Air Force (IAF).

Introduction was given by Mr. R K Tripathi, after the briefing students were allowed to go into the hangers in which aircrafts testing was going on.

We found the following aircraft at respective Hangers and each aircraft were explained by **Mr Kishore, Mr Ranjan Kumar and Mr Amit Sharma.**

While coming back, we also met the Wing Commander of **SUKHOI (SB028) Mr. Sadish** and He has briefing about career guidance, Competitive exams and the working environment in **AIRFORCE**

Hanger 1:

- DHRUV (ALH)
- ALOUTEE III (CHETAK)
- HJT-16 (KIRAN)
- VIRUS SW80 MICROLIGHT (GARUD)
- HAWK MK 132

Hanger 2 :-

- SUKHOI (SB028)
- JAGUAR (JT066, JS115, JS117, JT056)



The main objective of the Industrial Visit was to provide effective knowledge to the students about Aircraft and System testing. This opportunity of visiting the industry was more productive and insightful.

DHRUV(ALH)

UTILITY HELICOPTER

Range – 660km

Top speed – 282km/hr

Weight – 2,502kg

Cruise speed – 250km/hr

Unit cost – 5,000,000-6,200,000 USD

Engine type – Turboshaft

Manufacturer – Hindustan Aeronautics
limited



ALOUTEE III(CHETAK)

LIGHT UTILITY HELICOPTER

Range – 540km

Top speed – 210km/hr

Weight – 1,122kg

Length – 10m

Cruise speed – 185km/hr

Engine type – Turbomeca Artouste

Manufacturers – Aerospatiale, Airbus
helicopters, Sud Aviation



PIPISTREL VIRUS

LIGHT-SPORT AIRCRAFT

Range – 1,650km

Cruise speed – 246km/hr

Length – 6.5m

Unit cost – 69,000-159000 EUR

Engine type – Rotax 912

Manufacturers – Pipistrel, Albastar Ltd



HAWK MK 132

GROUND ATTACK AND WEAPON
TRAINING

Range – 2,520km

Maximum speed – 1,065km/hr

Length – 11.96m

Unit cost – 135 million USD

Engine type – Rolls-Royce Adour Mk871

Manufacturers – BAE Systems and Hindustan
Aeronautics Limited



SUKHOI (SB028)

MULTI ROLE FIGHTER

Range – 1,050km

Maximum speed – 950km/hr

Length – 15.36m

Weight – 12,000kg

Engine type – Tumansky TRD R-95Sh turbofan

Manufacturer – Hindustan Aeronautics Limited



JAGUAR

AIR SUPPORT AND NUCLEAR STRIKE
ROLE

Range – 3,524km

Top speed – 1,700km/hr

Weight – 7,000kg

Length – 17m

Engine type – Turbofan, Rolls-Royce

Turbomeca Adour

Manufacturers – SEPECAT, Dassault

Aviation, Hindustan Aeronautics Limited

