

INDUSTRIAL VISIT REPORT (NAL)

Department of Electronics and Communication Engineering had arranged a half day industrial visit to National Aerospace Laboratories on 23rd Aug 2019, 55 students of 2nd year and two faculties had taken part.

Industrial visits offer a great source to gain practical knowledge. Students can observe and learn as to how theoretical concepts are put into action thereby aiding their practical learning and this was the purpose of our visit to CSIR-NAL (Council of Scientific and Industrial Research-National Aeronautics Limited).

We entered the Industrial plant around 10.30 am where we were guided by Mr. Somanarayan. We visited various testing centres of NAL in the well maintained campus that is full of lush greenery. At first we visited the wind tunnel testing centre which is one of the important phases in the design of aircrafts and other launch vehicles. We were given a insight on the procedures and processes associated with this test. Later we visited acoustic test centre, advanced composite division of NAL and were given brief insight of those centres.

We were then accompanied by our guide and reached the other centre of NAL where we visited Various processes associated with the centre.

1. Acoustic Test - here the reverberation chamber based facility was designed by NAL. This facility is capable of providing acoustic qualification for all ISRO's space bound hardware with spectra confirming to MIL-STD 810G standards.

2. Wind Tunnel Test - it is one in which reduced scale model of the aircraft is attached to a balance and the six components of the force and the moments are measured for various combination of wind, velocity, incidence angle, sideslip angle, and control surface angle.

3. UAV Design And Integration – they provide bridge diverse research and product oriented approaches to a work source for airtel systems.

4. Center for Civil Aircraft Design and Development - C-CADD is currently involved in the development of certification of a 14- seater light transport aircraft (SARAS) and 5-seater general aviation aircraft (CNM- 5) after having successfully certified the all composite Hansa-3, a two seater abinitio trainer for pilot training in flying clubs.

After that we had presentation from 12.30 pm to 1.00 pm where the history of the organization, general working and various certifications achieved by organization was elaborated about. We were briefed about the job opportunities, internships and their work culture.

