



NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
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Department of Information Science and Engineering

Report on Industrial Visit at CSIR-NAL (National Aerospace Laboratories), Bengaluru

The Department of Information Science and Engineering 7th Sem students have visited **CSIR-NAL**, Bengaluru on 22-Aug-2024 as part of Industrial visit to explore and experience the real work in software, hardware and multidisciplinary fields and interacted with engineers to understand the workflow in the respective organization. Totally 08 students along with Dr. Arvind S. Kapse, Professor, ISE, NHCE, Bengaluru visited the facility.



Department of Information Science and Engineering

Industrial Visit
to

CSIR - NAL (National Aerospace Laboratories) Bengaluru

Batch - 7th Sem ISE



22 August 2024



9:00 AM to 12:30 PM



XM62+9H5, HAL Old Airport Rd,
Kodihalli, Bengaluru, Karnataka 560017



Coordinator:
Dr. Arvind S Kapse
Professor, ISE

Convenor:
Dr. Vandana C P
HOD, ISE

We started our industrial visit journey towards **CSIR-NAL** Bengaluru at 09:30 am and reached there around 10:00 am on 22-Aug-2024. The **CSIR-NAL** is located in XM62+9H5, HAL Old Airport Rd, Kodihalli, Bengaluru, Karnataka 560017.



National Aerospace Laboratories (NAL), a constituent of the Council of Scientific and Industrial Research (CSIR), India, established in the year 1959 is the only government aerospace R&D laboratory in the country's civilian sector. CSIR-NAL is a high-technology oriented institution focusing on advanced disciplines in aerospace. CSIR- NAL has several advanced test facilities, and many of them are recognized as National Facilities. These are not only the best in the country, but are also comparable to other similar facilities in the world. CSIR-NAL has provided significant value added inputs to all the Indian national aerospace programmes. Its contributions over the last five decades have enabled it to create a niche for itself in advanced aerospace research and technology development. CSIR-NAL has also developed many critical technologies for the strategic sector and continues to support the mission-mode programme of the country.

CSIR-NAL's mandate is to develop aerospace technologies with strong science content, design and build small, medium sized civil aircraft, and support all national aerospace programs



Major R&D Discipline in CSIR-NAL

- Computational fluid dynamics
- Experimental aerodynamics
- National Trisonic Aerodynamic Facilities
- Flight mechanics and control
- Propulsion
- Composites
- Structural design, analysis and testing
- Structural dynamics and integrity
- Surface modification
- Aerospace materials
- Aerospace electronics and instrumentation
- Civil aviation

- Parallel processing computers
- Meteorological modeling
- Wind Energy
- Manufacturing Technology
- Information Systems
- Electromagnetics



The industrial visit started with a brief introduction to **CSIR-NAL** history, and its contributions to research, software, hardware and aircraft products. The participants were then divided into 2 smaller groups and assigned guides who accompanied them throughout the visit.

We successfully completed our industrial visit at **CSIR-NAL, Bengaluru**. This industrial visit will definitely would pave the way to imbibe their best practices into our department.

Dr. Arvind S. Kapse
Professor, ISE
Industrial Visit Coordinator

HOD-ISE