AISSMS COLLEGE OF ENGINNEERING

DEPARTMENT OF COMPUTE ENGINEERING

REPORT ON

INDUSTRY VISIT AT U R RAO SATELLITE CENTRE BANGALURU (ISRO) HINDUSTAN AERONAUTICS LIMITED (HAL) BANGALURU & VISVESVARAYA INDUSTRIAL AND TECHNOLOGICAL MUSEUM

Objective of Industrial Visit

To give exposure to computer student about Networking domain, which they can explore to cherish their professional life**.**

Date of Visit: 03/01/2019

Address: U R Rao Satellite Centre (URSC), Old Airport Road Vimanapura Post, Bengaluru - 560 017, Karnataka, India

Contact Person: Rajendra Hulyal, Group Head Programme, Planning & Evaluation Group ISRO Bangaluru

Department of Computer Engineering has organised Industrial Visit at ISRO and HAL Bengaluru on 02rd January to 06th January 2019. This ISRO-HAL visit was organized for BE Computer Shift-I and Shift-II students accompanied with five faculties and 1 attendant. Strength of the students was 111.

Faculty Coordinators:	1. Prof. N. R. Talhar
	2. Prof. S. G. Dhengre
Other Faculties:	3. Prof. O P Kasarlewar (BE GFM)
	4. Prof. A S Deokar
	5. Prof. S S Deshmukh
Attendant:	6. Mr. S S Mate

The Objective was to encourage & motivate students for building their carrier in scientific and research activities related to space and embedded software. This will surely benefit to students in space domain and shape student's professional carrier path.

ISRO Profile:

Indian Space Research Organisation, formed in 1969, superseded the erstwhile INCOSPAR. Vikram Sarabhai, having identified the role and importance of space technology in a Nation's development, provided ISRO the necessary direction to function as an agent of development. ISRO then embarked on its mission to provide the Nation space based services and to develop the technologies to achieve the same independently.

U R Rao Satellite Centre (URSC), Bengaluru, formerly known as ISRO Satellite Centre (ISAC) is the lead centre for building satellites and developing associated satellite technologies. These spacecraft are used for providing applications to various users in the area of Communication, Navigation, Meteorology, Remote Sensing, Space Science and interplanetary explorations. The Centre is also pursuing advanced technologies for future missions.

Some of the missions of the ISRO are listed below-

Missions

Trending	Latest Missions	Future
LVM3-X (CARE)	GSLV-F11 / GSAT-7A Mission	PSLV-C44 Mission
AstroSat	GSAT-11	GSLV-Mk III / Chandrayaan-2 Mission
Mars Orbiter Mission	PSLV-C43 / HysIS Mission	
	GSLV MkIII-D2 / GSAT-29 Mission	

HAL Profile:

Hindustan Aeronautics Limited (HAL) is an Indian state-owned aerospace and defence company headquartered in Bangalore, India. It is governed under the management of the Indian Ministry of Defence.

The government-owned corporation is primarily involved in the operations of the aerospace and is currently involved in the design, fabrication and assembly of aircraft, jet engines, helicopters and their spare parts. It has several facilities spread across India including Nasik, Korwa, Kanpur, Koraput, Lucknow, Bangalore, Hyderabad and Kasaragod. HAL HF-24 Marut fighter-bomber was the first fighter aircraft made in India.

R&D Centers

- Aircraft
- Aero Engine
- Rotary Wing
- Strategic Electronics
- Gas Turbine
- Aircraft Upgrade
- Transport Aircraft
- Mission & Combat System
- Central Materials and Processes Laboratory & NDT Centre
- ASERDC Lucknow
- ASERDC Korwa

Aircraft Research and Design Centre (ARDC), began as the Engineering Department of Hindustan Aircraft Limited during 1948-49 and has grown into a full-fledged R&D Centre.

ARDC has designed several aircraft ranging from basic piston Trainers namely HT-2, Pushpak to the frontline combat aircraft like Marut , LCA.

ARDC has a full spectrum of expertise in all facets of aircraft design & development. acquired through sustained learning and R & D. Our proven capabilities are backed by rich in-service experience spanning over seven decades. ARDC has extensive state of the art test facilities and full-fledged manufacturing infrastructure for building aircraft prototypes & test articles, simulation and analysis tools to support flight development programmes

- Design & Development, Integration, Testing and certification of basic and advanced trainers and combat aircraft.
- Ground Testing of aircraft structures and systems
- Wind tunnel validations
- Flight Evaluation

Prof. N R Talhar — Dr.D.P. Gaikwad)

Visit In-charge — H.O.D.