



J. B. INSTITUTE OF ENGINEERING & TECHNOLOGY

(UGC Autonomous)

(Accredited by NBA & NAAC, Approved by AICTE & Permanently Affiliated to JNTUH)

Bhaskar Nagar, Yenkapally (V), Moinabad(M), P.O. Himayathnagar, R.R. District, Hyderabad-5000075.

Department of Electronics & Communication Engineering

Report on

INDUSTRIAL VISIT

To

NRSC-ISRO

On Thursday 28th April, 2022

Venue

**National Remote Sensing Centre (NRSC), Outreach
Facility,
Indian Space Research Organization, Dept.
of Space, Govt. of India, Jeedimetla,
Hyderabad – 500037.**

Coordinators

Mr. Bijaya Kumar Muni, Asst.Prof.

Mr. N. Ramesh Babu, Assoc. Prof.

Institute Vision & Mission

To be a centre of excellence in engineering education, research and application of knowledge to benefit society with ethical values.

1. To provide world class engineering education, encourage research and development.
2. To evolve innovative applications of technology and develop entrepreneurship.
3. To mould the students into socially responsible and capable leaders.

Department Vision & Mission

To be a guiding force enabling multifarious applications in Electronics and Communications Engineering, promote innovative research in the latest technologies to meet societal needs

1. To provide and strengthen core competencies among the students through expert training and industry interaction.
2. To promote advanced designing and modelling skills to sustain technical development and lifelong learning in ECE.
3. To promote social responsibility and ethical values, within and outside the department.



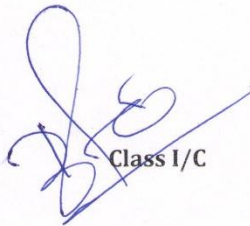
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Department of Electronics & Communication Engineering

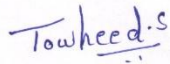
Date: 25-04-2022

Circular

Subject: (Regarding Industrial visit to NRSC ISRO, Jeedimetla, Hyderabad)

This is to inform all the students of Electronics & communication Engineering, that the industrial visit to NRSC, ISRO, Jeedimetla is Scheduled on 28-04-2022. It is mandatory for all the 2nd year students to visit the ISRO Center. All College buses will starts at 8.30 AM From Mehdipatnam.


Class I/C


HOD ECE
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Bhaskar Nagar, Moinabad Mandal
Hyderabad-500 075.



PREAMBLE

The Department of Electronics & Communication Engineering has conducted the Industrial Visit to “***National Remote Sensing Centre (NRSC), Jeedimetla***” for the II year students of Under Graduate program.

J.B. Institute of Engineering and Technology was established in 1998, popularly known as JBIET, is a UGC approved Autonomous Institution. JBIET is a NBA and NAAC accredited Institution. The Institute has various laboratories, workshops and other support systems to provide a hands-on experience. It can boast of its well qualified and expert faculty who inculcate the best values and principles. The Institution aims at the holistic development of the Students and has a notable Placement track record. The institute also nurtures and promotes Entrepreneurship, provides end to end support in the form of funding for startups. JBIET has been ranked consistently among top Institutions in Telangana and India.

The Department of Electronics and Communication Engineering was established in the year 1998 with an intake of 60 in B.Tech. The intake was increased to 90 in the year 2000 and 120 in the year 2004. The M. Tech program in VLSI System Design was introduced in 2005 with an intake of 18 and it was raised to 24 in 2014. The

B.Tech. Program was accredited by NBA in 2006 then now 2021 again the department is accredited by NBA.

The Department of ECE is best known for its talented and dedicated professionals renowned for their excellence in various specializations in the field of Electronics & Communication Engineering. The faculties have completed two consultancy research projects and one more project is ongoing. 6 faculties have patents including National and Australian Govt. whereas, there are more than 50 research articles published in peer-reviewed Journal and Conferences for the last 3 years. ECE has also received AICTE grant under MODROB.

The Department is provided with state-of-the-art technological tools incorporated in all the existing laboratories. For the last ten years, the students of ECE, who walked out of the portals of the institute successfully, holding their degrees, were immediately inducted into the MNCs of high reputation in India & abroad.

An overview of the Visit is as follows:

National Remote Sensing Centre (NRSC) at Hyderabad is responsible for remote sensing satellite data acquisition and processing, data dissemination, aerial remote sensing and decision support for disaster management. NRSC has a data reception station at Shadnagar near Hyderabad for acquiring data from Indian remote sensing satellites as well as others.

NRSC Ground station at Shadnagar acquires Earth Observation data from Indian remote-sensing satellites as well as from different foreign satellites. NRSC is also engaged in executing remote sensing application projects in collaboration with the users. The Aerial Services and Digital Mapping (ASDM) Area provides end-to-end Aerial Remote Sensing services and value-added solutions for various large scale applications like aerial photography and digital mapping, infrastructure planning, scanner surveys, aeromagnetic surveys, large scale base map, topographic and cadastral level mapping, etc.

Some of the Satellites launched by India as mentioned below, MR. Ravi (The Scientist has shown the video and demonstrated the different steps involved in satellite launch.

- Astrosat
- Oceansat

- Polar Satellite Launch Vehicle (PSLV)
- Rohini Satellite
- Aryabhata Satellite
- Satellite Launch Vehicle
- ASLV (Augmented Satellite Launch Vehicle)
- Mangalyaan
- Chandrayaan

Further the students are allowed to see the exhibition of satellite models in poster and as prototype.

This exhibition helps the students for their future course of study. The students have calibrated themselves to study more on satellite communication and motivated to work in ISRO and DRDO etc. so finally the industry visit benefits the students of ECE and objective is achieved.



Faculty & Students are in College Bus



Faculty & Students assembled in Gate of NRSC



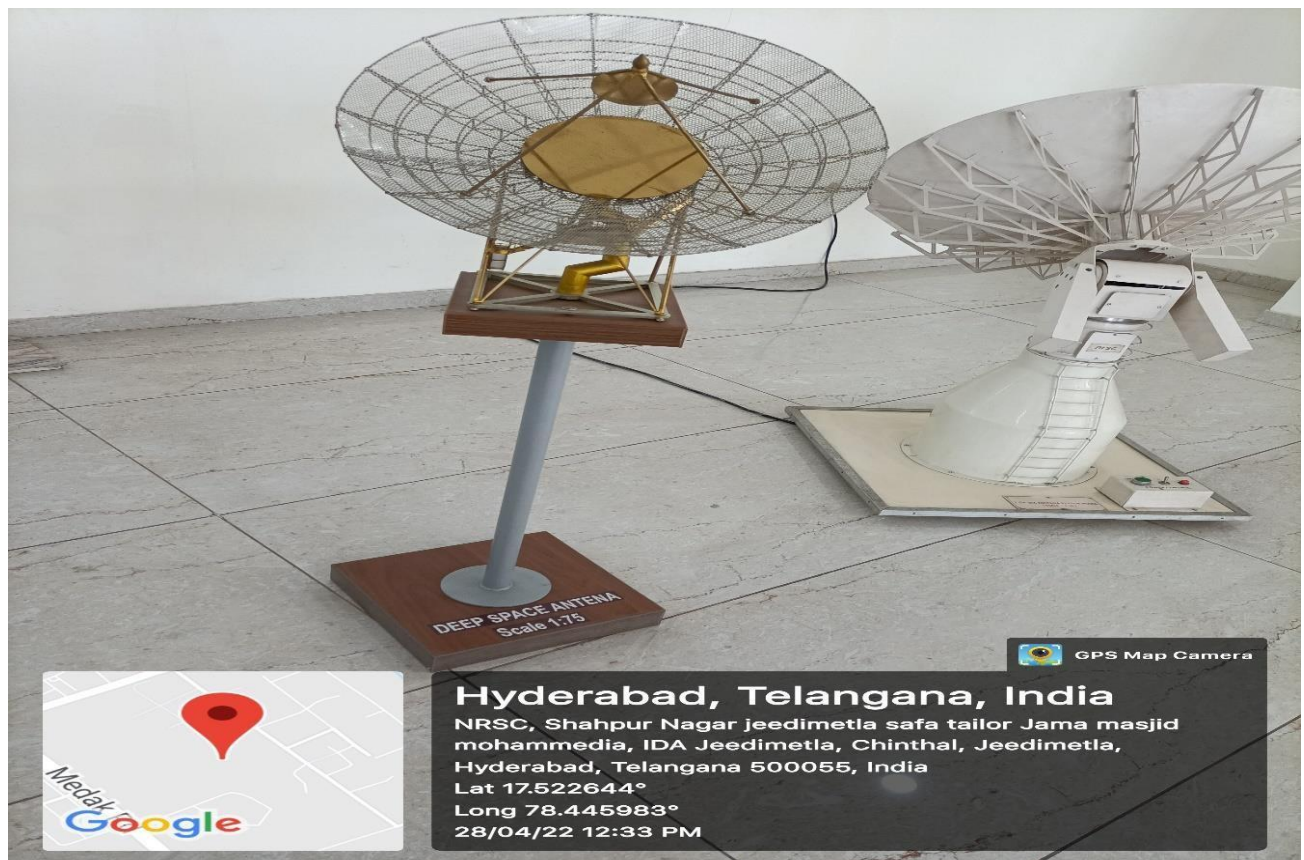
Faculty & Students assembled in Seminar Hall, NRSC



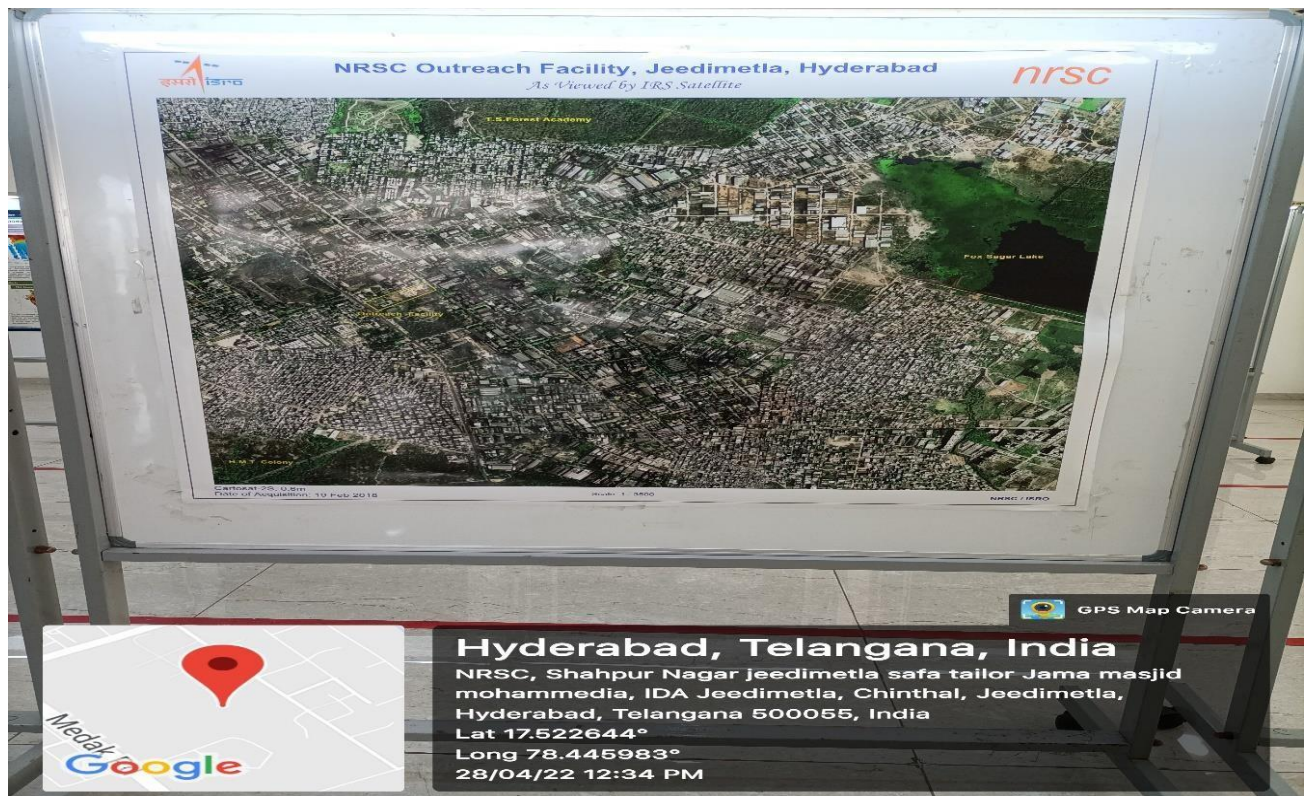
Presentation by Mr. V. V. Ganesh, Scientist, NRSC



Satellite Functioning Model around the Earth



Prototype of Deep Space Antenna



Geographical image of NRSC from Satellite



Hyderabad, Telangana, India

GCCV+HQP, Medak Rd, APIIC Colony, Chinthal, Jeedimetla, Hyderabad,
Telangana 500055, India

Lat 17.521502°

Long 78.444465°

28/04/22 01:01 PM

Interaction of Mr. V. V. Ganesh, Scientist with the Students



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Department of Electronics & Communication Engineering

Industrial Visit to NSRC ISRO on 28th April 2022

(This Feedback Form is Related to their Industrial Visit to assess the Impact of the same.)

1. Email Id

Pravaisha332@gmail.com

2. Name

Potharajula Pravaisha

3. Department

ECE

4. Roll No

20671AD428

5. Semester

IInd Year - 2nd sem

6. Whether any specific official was assigned for you during the visit?

Mark only one oval.

☒ Yes

☐ No

7. Was the whole visit based on a well-defined schedule and adherence to the schedule? Mark only one oval.

☒ Yes

☐ No

8. Did your industrial visit co relate with your course?

Mark only one oval.

☒ Yes

☐ No

☒ Maybe

9. Did the people in the organization encourage interaction with them?

Mark only one oval.

- ☒ Yes
☐ No

10. Were Pre-visit inputs provided?

Mark only one oval.

- ☒ Yes
☐ No

11. Rate the support provided by the organization

Mark only one oval.

- 1 2 3 4
Poor ☐ ☐ ☒ ☐ Excellent

12. Would you like your department to arrange such industrial visits in future?

Mark only one oval.

- ☒ Yes
☐ No

13. Please give your valuable suggestions. *

** The Hardcopy forms to be submitted to Dean, IIC for office records