

SARVAJANIK COLLEGE OF ENGINEERING & TECHNOLOGY



Industrial visit Report

Vikram Sarabhai Space Exhibition

(VSSE) Center

(22-04-2025)

Electronics and Communication Engineering Department





Prepared and Compiled by

Ketki C. Pathak

Assistant professor

[E&C Engineering Department]

VISIT Details

Visit to: Vikram Sarabhai Space Exhibition (VSSE) Center

Location: ISRO Campus, Ahmedabad, Gujarat

Date of Visit: 22/4/2025

Department: Electronics and Communication Engineering Department]

Institution: Sarvajanik College of Engineering and Technology

Coordinators: Dr. Ketki C. Pathak, Prof. Pritesh Saxena, Prof Chhaya Suratwala, Prof. Chintan

Panchal

Number of Students: B.Tech. 3rd Year [44 students] +B.Tech. 4th Year [42 students]

Industry Details

Company name : Vikram Sarabhai Space Exhibition (VSSE) Center

Address : ISRO Campus, Ahmedabad, Gujarat

Homepage : https://www.vssc.gov.in/

"Dream is not the thing you see in sleep but it's that thing that doesn't let you sleep."— A.P.J. Abdul Kalam "ISRO creates history, launches 104 satellites in one go."

The Vikram Sarabhai Space Exhibition is a part of ISRO's outreach program aimed at inspiring young minds. Named after Dr. Vikram Sarabhai, the father of India's space program, the exhibition showcases the legacy, achievements, and future missions of ISRO through interactive displays, working models, static exhibits, and audio-visual content.

We the Electronics and Communication Engineering Department feels proud to witness to visit the ISRO-VSSE. With an endless support of our principal, Dr. Hiren Patel , and our HOD, Dr. Chirag Paunwala and class mentor of 4th year Dr. Ketki C. Pathak , Class Mentor of 3rd Year Prof. Pritesh Saxena , Prof. Chhaya Suratwala and Prof. Chintan Panchal of E&C Engineering Department has organized an INDUSTIAL Visit to ISRO-Vikram Sarabhai Space Exhibition (VSSE) Space Applications Centre, Ahmadabad on 22nd April 2025.

This visit is related to the content beyond syllabus for the following subjects

- 1. Antenna and Microwave engineering
- 2. Non Terrestrial Communication (Satellite communication related)
- 3. Wireless Communication

Highlights of Industry Visits:-

- 1. Real 3-D video shoot by Astronaut in space.
- 2. Simulation of GSLV
- 3. Brief discussion on asking more questions during visit by H. B. Pandya (In charge-ISROVSSE-Ahmedabad)

ISRO, India's premier space agency, is renowned globally for its groundbreaking achievements in space technology and exploration. This visit offered students a unique opportunity to delve into the world of space science and technology, providing them with a firsthand understanding of the practical applications of their studies and the innovative advancements in the field of space exploration.

The visit was started at 7.00 AM from Surat to Ahmedabad by Bus. Our 3rd year and 4th year students were very much excited to board the train for visiting ISRO-Ahmedabad on 22nd April 2025(Tuesday). They were eager to get know how satellites & launchers works, what are the opportunities for computer students, what kind of efforts one has to put to become the part of ISRO.

We have visited Dr. Vikram Sarabhai Science exhibition, ISRO. The visit started with 3-Ddocumentary shoot by Astronauts' in space, followed by brief session on Mangalyan & Chandrayan, simulation on GSLV (Geosynchronous Satellite Launch Vehicle). The volunteers have given insight of ASLV-which was the first launcher made under the supervision of Dr. A. P. J. Abdul Kalam. Students came to know that if space researcher sent by NASA then they have been called **Astronaut** but if ISRO will send some researcher at space they have been known as **Vyomnaut**.

Students were fascinated by checking the details of PSLV- (Polar Satellite Launch Vehicle). By the time we were mesmerized with GSLV & PSLV, there were many more surprise elements were waiting for us. The team ISRO explained & discussed the real time Satellite with Demo. The explanation started with basic hardware, what are types of antennas, what are payloads, how ingestion chamber works, why fuel is required in the chamber, why batteries were used, what are solar panels. The students were delighted to see prototype of solar system with all the planetary information.

Summary

The visit began with a brief orientation session by ISRO staff explaining the objectives of VSSE and ISRO's contributions to national development.

Exhibition Hall Tour:

- **Satellite Models:** We observed models of Indian satellites like Aryabhata, INSAT, GSAT, and IRS.
- Launch Vehicles: Display models of PSLV, GSLV, and GSLV Mk III were showcased along with mission achievements.
- **Remote Sensing and Communication:** Demonstrations on how satellite data aids in agriculture, weather forecasting, disaster management, and communication.
- Mars and Moon Missions: Models and documentaries on Chandrayaan and Mangalyaan provided insights into deep space exploration.
- **3D Space Theatre:** A short 3D film was screened, depicting space missions and life of astronauts.
- Interaction with Scientists: Students had the opportunity to interact with ISRO scientists, who answered queries related to space missions, payloads, rocket science, and career opportunities.

The visit to the Vikram Sarabhai Space Exhibition Centre offers several key benefits for the students as outcome based learning:

Theory in Action: Witness ISRO's applications in action, reinforcing classroom learning with real-world examples.

Career Inspiration: Interact with space scientists and engineers, gaining insights into careers in space technology.

Tech Exposure: Explore cutting-edge space technologies and innovations, igniting interest in aerospace engineering.

Problem-Solving Skills: Learn how ISRO addresses complex challenges in space exploration and satellite technology.

Future-Ready Skills: Gain an understanding of ISRO's focus on research, development, and innovation in space science.

Informed Career Choices: Experience the world of space technology firsthand, aiding in informed career decision-making

This industrial visit to the Vikram Sarabhai Space Exhibition Centre aims to extend learning beyond the classroom. Students will have the opportunity to observe comprehensive applications of space technology, solidifying their theoretical knowledge. By networking with ISRO professionals, they will gain valuable insights into the industry and explore potential career paths in space science and engineering. This trip is not only a gateway to future careers but also an inspiration for innovation.

By exploring ISRO's technical advancements, students may develop a passion for contributing to the field of space exploration. Ultimately, this visit equips students with the knowledge and connections necessary to excel in the ever-evolving world of space technology.

The visit was ended with a group photo with team member of ISRO. The students were motivated as ISRO has opened the door for Computer students & making them understand how they can be part of such a proud organization.

Few glimpses of visit













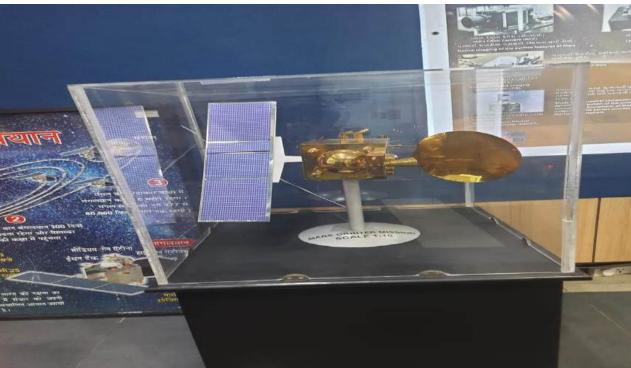


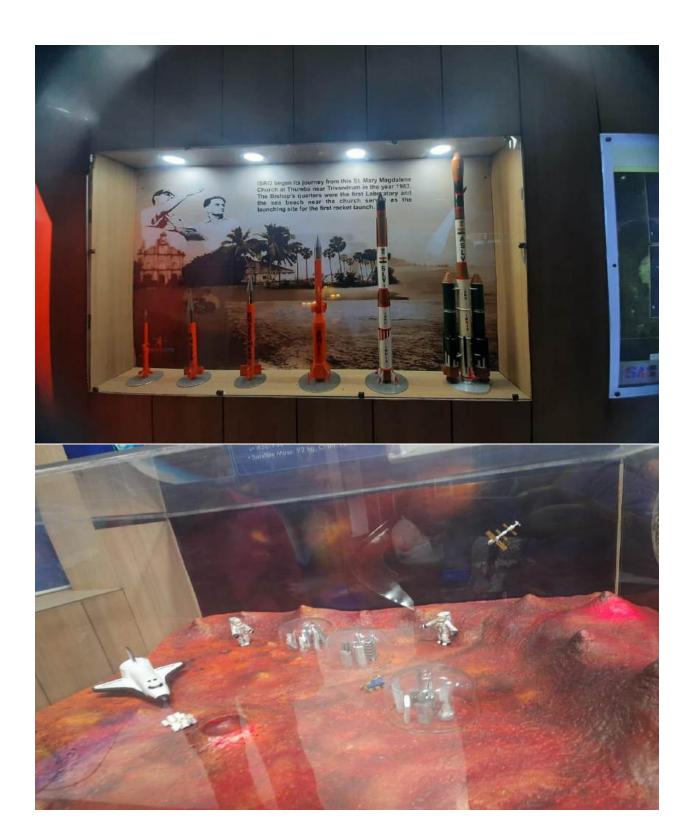
















STUDENT DETAILS

		VSSE Visit(Bto	ech 3rd EC)(D	ate:22/4/2024)		
Sr. No.	Enrolment NO	Student Name	Contact No.	scet mail id	Sign 1	Si
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2	ET22BTEC003	Akshat Jignesh Shah	7284000624	akshatshah.ec22@scet.ac.in	Anhast	M
3	ET22BTEC004	Amroliwala Afreen Zubin	9426712770	afreenamroliwala.ec22@scet.ac.in	Africa-	V
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8	ET22BTEC012	Gupta Rajnidhi Surendraprasad	8401691888	rajnidhigupta.ec22@scet.ac.in	pognion	1
9	ET22BTEC015	Harsh Sharma	9510916982	harshsharma.ec22@scet.ac.in	J-60-	1
10	ET22BTEC016	Icecreamwala Smeet Ajaykumar	6351912743	smeeticecreamwala.ec22@scet.ac.in	emust	ta
11	ET22BTEC018	Jiya Shah	9328749968	jiyashah.ec22@scet.ac.in	nya	11
12	ET22BTEC019	Kantharia Meet Balubhai	9879668189	meetkantharia.ec22@scet.ac.in	Mest	
13	ET22BTEC022	Manasvi Mehta	9313371485	manasvimehta.ec22@scet.ac.in	100	1/0
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26	ET22BTEC043	Pindiwala Pratham Dharmeshkumar	7383617271		Bal	have
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		Suhagiya Karan Himmatbhai	9924040458	karansuhagiya.ec22@scet.ac.in	1 32
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38	ET22BTEC064	Vipul Kumar Gupta	7600013695	zeelmistry.ec22@scet.ac.in	Mzel
39	ET22BTEC066	Zeel Chandreshkumar Mistry		tanvipatil.ec21@scet.ac.in	di
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41		Sneha Yogeshkumar Gandhi	6358744484	snehagandhi.ec22@scet.ac.in	L. 8.20
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44	ET21BTEC055	Priyansh Rander	100		

List of Students VSSE Gandhinagar						
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	Department					
	Date of Visit	22/4/2024				
Sr. No	Name	Enrollment Number	Email	Mobile No.		
1	Khushi Banka	ET21BTEC002	khushibanka.ec21@scet.ac.in	9313608269		
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4	Ansh dobariya	ET21BTEC012	anshdobariya.ec21@scet.ac.in	9173126511		
5	Drasti domadiya	ET21BTEC013	drashtidomadiya.ec21@scet.ac.in	7434053300		
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8	Dhruvil Fulwala	ET21BTEC016	dhruvilfulwala.ec21@scet.ac.in	9081778811		
9	Preet Gohil	ET21BTEC019	preetgohil.ec21@scet.ac.in	9510875991		
10	Sahil Goti	ET21BTEC020	sahilbhaigoti.ec21@scet.ac.in	9924531994		
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12	Harshit Jain	ET21BTEC023	harshitjain.ec21@scet.ac.in	9374722634		
13	Sayam Jain	ET21BTEC024	sayamjain.ec21@scet.ac.in	9427821780		
14	Anirban Jana	ET21BTEC025	anirbanjana.ec21@scet.ac.in	9313468467		
15	Raj Jariwala	ET21BTEC026	rajjariwala.ec21@scet.ac.in	8511185717		
16	Aditya jha	ET21BTEC027	adityanarayanjha.ec21@scet.ac.in	6354088339		
17	Dev Joshi	ET21BTEC029	devjoshi.ec21@scet.ac.in	9725099336		
18	Om katariya	ET21BTEC031	omkatariya.ec21@scet.ac.in	9316182176		
19	Aarya Lokhandwala	ET21BTEC034	aaryalokhandwala.ec21@scet.ac.in	8866231038		
20	Niyati Majumdar	ET21BTEC034	niyatimajumdar.ec21			
21	Alok mevawala	ET21BTEC037	alokmevawala.ec21@scet.ac.in	6352541199		
22	Dhrumil Moga	ET21BTEC038	dhrumilmoga.ec21@scet.ac.in	7229027698		
23	Vatsa Noticewala	ET21BTEC040	vatsanoticewala.ec21@scet.ac.in	9824945485		
24	Harshita Pandit	ET21BTEC041	harshitapandit.ec21@scet.ac.in			

List of Students VSSE Gandhinagar						
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	Date of Visit					
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	Privansh Rander	IET21BTEC055	priyanshrander.ec21@scet.ac.in	8461076888		
	Akshay Santoki	ET21BTEC057	akshaysantoki.ec21@scet.ac.in	9825457769		
28	Shruti Savani	ET21BTEC059	shrutisavani.ec21@scet.ac.in	9537653793		
29	Kamil Shaikh	ET21BTEC061	kamilshaikh.ec21@scet.ac.in	6351038653		
30	Hunaif Shaikh	ET21BTEC804	hunaifshaikh.ec21@scet.ac.in	9824693752		
31	Prashit Patel	ET22BTEC041	prashitpatel.ec22@scet.ac.in	9727704546		
32	Mudit Saboo	ET22BTEC029	muditsaboo.ec22@scet.ac.in	9724616989		
33	TRISH ROKANI	ET22BTEC049	Trishrokani.ec22@scet.ac.in	9408284546		
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