



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology
Approved by AICTE New Delhi, Recognized by DTE, Govt. of Maharashtra
And Affiliated to University of Mumbai
NAAC "B++" Grade

Department of Electronic & Telecommunication Engineering

Topic Name:	Industrial Visit to BSNL
Name of the Person:	Mr. Nitin Bavaskar
Designation:	AGM(Training)
Organization/Institution:	Bharat Sanchar Nigam Limited (BSNL)
Date & Time	6 nd Feb 2026, 11 am to 2 pm
Number of Students:	40

Programme Summary / Details:

The Department of Electronics & Telecommunication Engineering, VIVA Institute of Technology, organized an industrial visit to **Bharat Sanchar Nigam Limited (BSNL)** to provide practical exposure to students about real-time telecommunication and internet backbone infrastructure.

During the visit, students were introduced to the **NIB (National Internet Backbone) Node**, which is responsible for managing and controlling internet traffic at a national level. The officials explained the working of core networking systems and how BSNL maintains connectivity across different regions.

Session Highlights

- Introduction to BSNL network structure and services.
- Explanation of Optical Fiber Communication (OFC) system.
- Demonstration of Main Distribution Frame (MDF).
- Understanding of broadband and leased line services.
- Overview of GSM and mobile network operation.
- Information about fault detection and troubleshooting in telecom networks.
- Interaction session with BSNL engineers regarding career opportunities in the telecom sector.

Technical Learning Outcomes:

- MPLS (Multiprotocol Label Switching) and VPN services
- Internet Leased Line services
- Peering Links
- Caching Servers
- Anti-Spam and Web Filtering systems
- Anti-DDoS security mechanisms

The engineers explained how BSNL manages large-scale internet traffic efficiently and securely.



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Impact on Students

- The visit enhanced students' practical knowledge of telecommunication systems.
- Students were able to relate classroom concepts like switching, OFC, and modulation with real applications.
- It increased interest in core telecommunication careers.
- The interaction with engineers motivated students to prepare for competitive exams and technical roles.
- The visit provided valuable industry exposure and professional awareness.

The industrial visit to **Bharat Sanchar Nigam Limited (BSNL)** was a highly enriching and technically insightful experience for the students of Electronics & Telecommunication Engineering. It provided in-depth exposure to the practical working of a telecom exchange, including switching systems, **Main Distribution Frame (MDF)**, optical fiber communication, broadband infrastructure, and power backup mechanisms. Observing real-time telecom operations helped students clearly understand how theoretical concepts such as signal transmission, routing, modulation, and network management are implemented in large-scale communication systems.

The visit also highlighted the importance of reliability, maintenance, and fault detection in ensuring uninterrupted communication services. Interaction with experienced BSNL engineers gave students valuable knowledge about industry standards, operational challenges, and career opportunities in the telecom sector. Overall, the visit successfully bridged the gap between academic learning and industrial practice, strengthened core technical understanding, and motivated students to pursue careers in communication engineering and public sector organizations.





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Shri. Hitendra V. Thakur
President

Ms. Aparna P. Thakur
Secretary

Dr. Arun Kumar
Principal

Ref. No. : VIVA/VIT/ 750 /2025-26

Date :

Date: 6th February 2026

To,

Mr. Nitin Bavaskar,
AGM (Training),
CETTM RTTC,
Powai, Mumbai.

Subject: Letter of Appreciation.

Respected Sir,

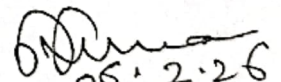
We are very much thankful to you and **Centre for Excellence in Telecom Technology and Management (CETTM), Mumbai** for granting permission to visit your esteemed organization on 6th February 2026 for second year Electronics and Telecommunication Engineering students.

This visit was very informative, knowledgeable and motivating. Our students will cherish your value adding words in their heart.

We expect similar support in future too.

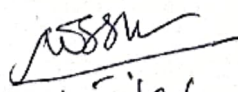
Thanking You.

Yours faithfully


06.2.26
Principal

Dr. Arun Kumar



Received

06/02/26



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology
 Shirgaon, Virar (East), Dist: Palghar-401305, Maharashtra
 Contact No. 7770002544 Website: www.viva-technology.org

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Department of Electronics and Telecommunication Engineering

Industrial Visit to CETTM, BSNL

Address: Fountain Telecom building, NO-1, Mahatma Gandhi Road, Azad Maidan, Fort, Mumbai, Maharashtra 400001

Contact Number: Mr. Nitin Bavaskar, 9421016792

Date: 6th February 2026 (Friday)

Sr. No.	Name of Students	Class/Branch	Sign
1	ANSARI INSHA SHAHZAMA	SE EXTC	
2	ARPITA RAI	SE EXTC	
3	ATHARVA NILKANTH MUNGALE	SE EXTC	
4	FULMALI PREETI OMPRAKASH	SE EXTC	
5	KANISHKA RAJESH MESTA	SE EXTC	
6	KARTHIKA ARUL RAJ	SE EXTC	
7	PATIL ARYAN	SE EXTC	
8	KINI KRISH PRAVIN	SE EXTC	
9	MANE HARSH PRADEEP	SE EXTC	
10	MIHIR SURESH KOKATE	SE EXTC	
11	MUSKAN SAFI MOHAMMMED SHAIKH	SE EXTC	
12	NAMRATA PRAKASH SONAWANE	SE EXTC	
13	NAVEENA SAHADEV GUNDETI	SE EXTC	
14	NIDHI SANTOSH HATIM	SE EXTC	
15	NISHCHAY HEMANT VAITY	SE EXTC	
16	RITEK VISHWAKARMA	SE EXTC	
17	PRACHI AJAYKUMAR PANDEY	SE EXTC	
18	PRATHAMESH GURAV	SE EXTC	
19	PRATHAMESH SONAWANE	SE EXTC	
20	PUSHKAR RANDHIR KUNWAR	SE EXTC	

Faculty Details:

Dr. Archana Ingle
 Mrs. Meena Perla
 Mr. Pratik Parsewar



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 AGM CETTM, Mumbai



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Sr. No.	Name of Students	Class/Branch	Sign
21	ROHAN MANGESH WARANG	SE EXTC	<i>Rohan</i>
22	SAMARPIT SOMNATH SHIKHARE	SE EXTC	<i>Samarpit</i>
23	SANJANA RAVINDRA KADAM	SE EXTC	<i>Sanjana</i>
24	SARTHAK AMIT KHARAT	SE EXTC	<i>Sarthak</i>
25	SAWANT SHRAVANI SHRIKANT	SE EXTC	<i>Sawant</i>
26	SAWANT VEDANT MUKESH	SE EXTC	<i>Vedant</i>
27	SHORYA SURESH BHOSALE	SE EXTC	<i>Shorya</i>
28	SHRUSTI VASANT JADHAV	SE EXTC	<i>Shruti</i>
29	SHWETA SUBHAS SHINDE	SE EXTC	<i>Shweta</i>
30	SOHAM NITIN GOVEKAR	SE EXTC	<i>Soham</i>
31	SONAWANE YASH UDAY	SE EXTC	<i>Sonawane</i>
32	SRIDHAR HEMANT SHEDGE	SE EXTC	<i>Sridhar</i>
33	SUSHILKUMAR KISHUNLAL GUPTA	SE EXTC	<i>Sushil</i>
34	TRIVEDI HARSH SHAILESH	SE EXTC	<i>Trivedi</i>
35	TUSHAR GANESH KADAM	SE EXTC	<i>Tushar</i>
36	VASANIYA DHURV RAKESH KUMAR	SE EXTC	<i>Vasaniya</i>
37	YADAV MITHILESH RAMESHCHANDRA	SE EXTC	<i>Yadav</i>
38	YADRUK SEJAL SHIVAJI	SE EXTC	<i>Yadruk</i>
39	YASH MANGESH PATIL	SE EXTC	<i>Yash</i>
40	YASH RAMCHANDRA SHINGADE	SE EXTC	<i>Yash</i>

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