

A Report on Industrial Visit to
“Rajiv Gandhi Memorial Telecom Training Centre (RGMTTC), BSNL,
Meenambakkam, Chennai”

Organized by Department of Computer Science and Engineering
on 29.08.2026



Report Submitted by: G. Vasundhara Devi, Department of Computer Science and Engineering

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Mode of Conduct: Offline

Attendees Count: 93 students

Report Received on: 31.08.2026

Centre Details:

Centre Name: Rajiv Gandhi Memorial Telecom Training Centre (RGMTTC)

Organization: Bharat Sanchar Nigam Limited (BSNL)

Location: Meenambakkam, Chennai – 600 027, Tamil Nadu, India

Objectives:

1. To bridge the gap between classroom learning and industrial practices by providing Computer Science and Engineering students with practical exposure to telecommunication networks, communication infrastructure, networking equipment, and real-world telecom operations at RGMTTC, BSNL.
2. To understand the practical application of Computer Science and Engineering concepts in the telecommunication domain, particularly in optical fibre communication, Passive Optical Network (PON) architecture, broadband technologies, access networks, telecom equipment, and network infrastructure.
3. To interact with technical professionals and gain insights into real-time telecom operations, network components, troubleshooting practices, communication technologies, required technical skills, and career opportunities in the networking and telecommunication domain.

Report Summary:

The Department of Computer Science and Engineering organized an industrial visit to **Rajiv Gandhi Memorial Telecom Training Centre (RGMTTC), BSNL, Meenambakkam, Chennai**, on **29.08.2026**. A total of **93 students** participated in the industrial visit along with **four faculty members**.

The visit was organized to provide students with practical exposure to the telecommunication and networking environment and to help them understand the practical implementation of concepts studied as part of their academic curriculum.

During the visit, students attended technical sessions and interacted with technical personnel at RGMTTC. The sessions provided an overview of **telecommunication networks, optical fibre communication, Passive Optical Network (PON) architecture, broadband technologies, access networks, telecom equipment, and network infrastructure**.

The students also had an opportunity to observe the **telecom/networking laboratory and associated communication equipment**. The technical discussions enabled students to relate their classroom knowledge of computer networks and data communication with practical telecommunication infrastructure.

The interaction with technical personnel also helped students understand the importance of **network maintenance, troubleshooting, communication infrastructure, and technical skills** in the telecom industry.

Technical Topics Discussed:

The following major technical topics were covered/discussed during the industrial visit:

1. **Telecommunication Networks and Infrastructure**
2. **Optical Fibre Communication**
3. **Passive Optical Network (PON) Architecture**
4. **Broadband Technologies and Access Networks**
5. **Telecom Equipment and Network Components**
6. **Telecom Switching and Transmission Systems**
7. **Network Operations and Troubleshooting**
8. **Practical Telecom Infrastructure and Connectivity**

Outcome of the Event:

The industrial visit provided students with valuable practical insight into modern telecommunication technologies and helped bridge the gap between **classroom learning and industry practices**.

The students gained an understanding of how networking and communication concepts are implemented in real-world telecom infrastructure. The exposure to optical fibre communication, PON, broadband technologies, telecom equipment, and networking systems enhanced their practical understanding of the subject.

The interaction with technical professionals also helped students gain awareness of the **skills, technical knowledge, and professional competencies required in the networking and telecommunication domain**.

Key Learning Outcomes:

- Gained practical exposure to **telecommunication networks and infrastructure**.
- Understood the fundamentals of **optical fibre communication**.
- Gained awareness of **Passive Optical Network (PON) architecture**.
- Learned about **broadband technologies and access networks**.
- Observed telecom equipment, network components, and infrastructure.
- Developed awareness of **telecom operations and troubleshooting practices**.
- Interacted with technical professionals and clarified technical queries.
- Understood the relevance of Computer Science and Engineering concepts in the **telecommunication industry**.
- Gained exposure to a professional technical environment and industrial practices.

Conclusion:

The industrial visit to **Rajiv Gandhi Memorial Telecom Training Centre (RGM TTC), BSNL, Meenambakkam, Chennai**, on **29.08.2026** was highly informative and fruitful. The visit provided **93 students** with valuable practical exposure to telecommunication and networking infrastructure.

The technical sessions, laboratory exposure, demonstrations, and interaction with technical personnel enabled students to understand the practical applications of **optical fibre communication, PON, broadband technologies, telecom equipment, and networking systems**.

The visit successfully enhanced student's understanding of the relationship between **academic concepts and real-world industrial applications**. It also motivated students to explore career opportunities and advanced areas in **computer networks, communication systems, and telecommunication technologies**.

The Department of Computer Science and Engineering sincerely appreciates the support and guidance provided by **RGM TTC/BSNL, Meenambakkam, Chennai**, and the technical personnel who interacted with and guided the students during the visit.

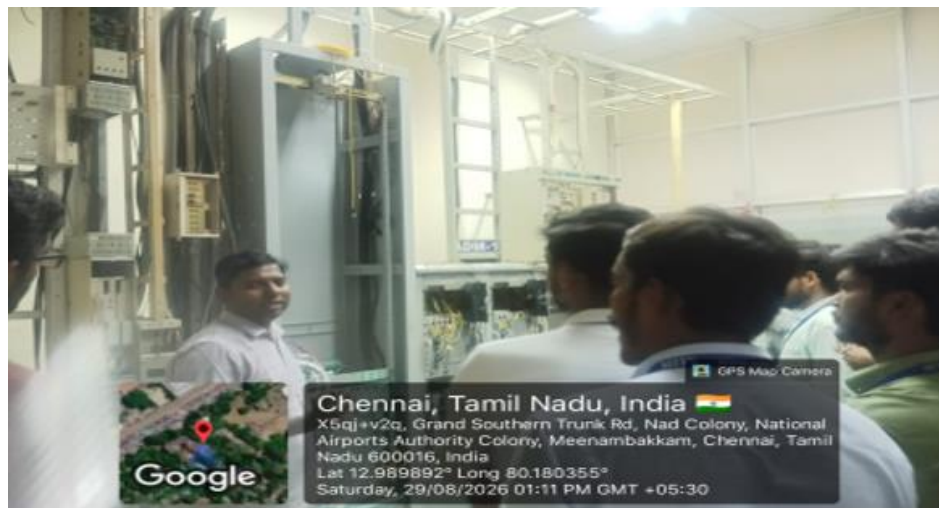


Figure: Technical interaction and observation of telecom/networking equipment in the RGM TTC laboratory.

Photographic Documentation

The following photographs document the major stages of the industrial visit, including arrival, technical interactions, laboratory exposure, expert sessions and the group photograph.



Technical interaction session with the RGMTC resource person.



Interaction with technical personnel and discussion on telecom systems.



Students observing telecom and networking laboratory equipment.



Technical session on optical fibre and communication technologies.

Demonstration/observation of telecom equipment and infrastructure.



Student-expert interaction during the industrial visit.



Students and faculty during the visit.

