



St. PETER'S ENGINEERING COLLEGE

(UGC - AUTONOMOUS)



Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with "A" Grade, NBA Programme Accredited (CSE, EEE, MECH), An ISO Certified Institution

DATE: 24/10/2024

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

To,
The Principal,
St. Peter's Engineering College,
Maisammaguda.

Sub: Requisition for industrial visit- Reg

Respected Madam,

On behalf of department of ECE, in association with IETE student forum at SPEC, we request you to kindly permit us for organizing an industrial visit to RTTC BSNL at BSNL exchange, Erragadda on 29/10/2024. This visit is planned for III ECE students along with the following 2 faculty co coordinators. (Mrs.K.A.Manjusha, Mr.P.Venkanna).

So, I request you to provide bus facility and further arrangement for visit.

Thanking you.

*Approved to
organise
K. (Signature)
24/10/24*

Yours Sincerely

(Signature)
(Dr.K.Prasanna Kumar)
HOD ECE



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IT & NETWORK LAB:



An industrial visit to the IT and Networks Lab at Bharat Sanchar Nigam Limited (BSNL) provides an insightful experience into the workings of one of India's leading telecommunications service



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providers. The lab is a hub for understanding modern telecommunication technologies, IT infrastructure, and networking systems.

This visit offers students an excellent opportunity to bridge theoretical knowledge with practical applications in IT and networking, enhancing their understanding of real-world telecom operations and infrastructure management.

MOBILE LAB:





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An industrial visit to the Mobile Lab at Bharat Sanchar Nigam Limited (BSNL) offers students valuable exposure to the technologies and systems that power mobile communication networks. This lab demonstrates BSNL's capabilities in implementing and managing mobile network services, providing practical insights into cellular technologies and operations.

Students were introduced to the basics of mobile communication, including 2G, 3G, 4G, and 5G technologies. The discussion covered how mobile networks are structured and how they facilitate voice and data communication.

BROADBAND LAB:





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Students were introduced to BSNL's broadband technologies, including:

- Digital Subscriber Line (DSL) technologies like ADSL and VDSL.
- Fiber to the Home (FTTH) and its advantages over traditional broadband systems.
- Wireless broadband services and their applications.

OPTICAL FIBER SYSTEMS LAB:



Students were introduced to the fundamentals of optical fiber technology, including:

- Basics of light transmission through optical fibers.
- Advantages of optical fibers over traditional copper cables, such as higher bandwidth and lower signal loss.
- Types of optical fibers: single-mode and multi-mode fibers.