

**Industrial visit to Central  
Railway Signal & Telecom  
Workshop , Byculla**

DATE: 15/03/2024

**Event Coordinator(s)**

1. Dr. Jaychand Upadhyay

<sup>2</sup>Prof. Martina D'souza

**Student Coordinator(s)**

Sumit Vishwakarma.

**Time**

1:00 pm to 05:00 pm

**Department:**

IT

**No of participants:**

20 +2

Attendees: 20 XIE Students + 2 Staff

Duration: 1 Day on 15/03/2024

The industrial visit to the Railway Signal & Telecomm was conducted on 15/03/2024 by XIE. The purpose of the visit was to gain practical insights into the functioning and operations of a trains, its signal and coordination with control room.

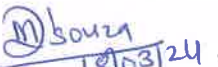
**Objectives of the Visit:**


1. To understand the overall functioning of trains
2. To observe the different stages of signal and its purpose.
3. To learn about the technology and equipment used railways
4. To gain insights into safety measures and environmental considerations.

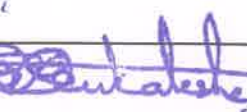
**Observations and Learnings: Please find attached document.**

**Conclusion:**

The visit to the Railway Signal & Telecomm provided valuable insights into the intricate processes of signal and cordination, the advanced technologies employed, and the stringent safety and environmental measures implemented.

  
Prof. Martina D'souza  
Coordinator

  
Dr. Jaychand U  
HOD, IT

  
Dr. Y. D. Venkatesh  
Principal

## IV REPORT :-

### SIGNAL AND TELECOM WORKSHOP .

#### OBSERVATIONS & LEARNINGS :-

- # Semans group's relay system (2 aspect, 3 aspect, 4 aspect, Shunt, Auto Route group)  
It enhances train operation through streamlined communication and control.
- # Reuse of relay by using different equipment
  - (i) 2621 contact cleaner
  - (ii) 641 oks multifunctional fluid spray
  - (iii) Bender to get pressure
- # Trackfeed battery charger
  - ① It is an 25 year warranty, It has alarm system, It offers a reliable and efficient solution for powering trains, providing consistent energy supply to ensure smooth operations.
- # Axle counting For train to understand an traffic channel.  
It pass axle counter give signal the traffic is clear then next train will pass.
- # Panel system :- It gives information of all Track with position that is straight line and loop line
- # Cascading arrangement in Signal :- (Green, Red, yellow)
- # Supply system
  - (i) IPS :- Integrated power supply
  - (ii) Battery bank

Images (if Any)



Fig: TE-IT students visiting and observing Railway Signal & Telecomm department



Fig: TE-IT students observing demonstration

# IV FEEDBACK FORM

15 responses

Publish analytics

## Student Name

15 responses

Prathamesh Vaidya

Shruti Parade

Harshvardhan Gupta

Aditya Nalawade

Saish Rane

Sumit Vishwakarma

Kunal Lal Singh

Divyajothi Raja

Rajaram Dilip Desai

Jayesh

Gaurav Premkumar Kashelkar

Piyush Mane

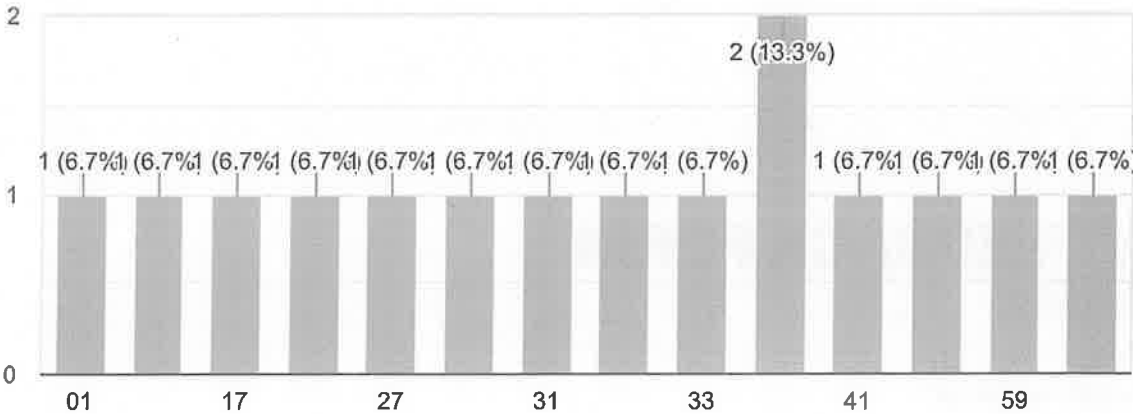
Vedang Nijap

Mangesh Pangam

Shreya Jadhav



15 responses



## Your Email Id

15 responses

202103060.prathameshvaa@student.xavier.ac.in

202103037.shrutipmj@student.xavier.ac.in

202103015.harshvardhangsc@student.xavier.ac.in

202103033.adityannr@student.xavier.ac.in

202103039.saishrkk@student.xavier.ac.in

202103061.sumitvls@student.xavier.ac.in

202103053.kunalsln@student.xavier.ac.in

202103011.divyajothirra@student.xavier.ac.in

rajaramdesai04@gmail.com

jayeshkakade2003@gmail.com

2022032002.gauravkpr@student.xavier.ac.in

manepiyush36@gmail.com

vedang.nijap@gmail.com

202103036.mangeshpkr@student.xavier.ac.in

202103020.shreyajpp@student.xavier.ac.in



Your XIE ID

15 responses

202103060

202103037

202103015

202103033

202103039

202103061

202103053

202103011

202103010

202103027

2022032002

202103032

202103034.vedangnrr@student.xavier.ac.in

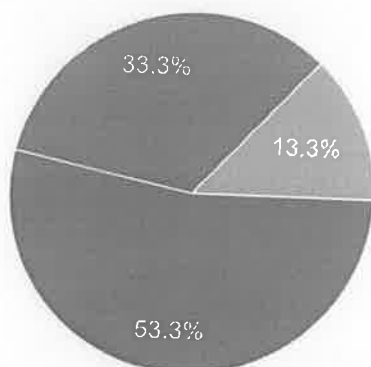
202103036





202103020

How was the overall organization of the IV?

15 responses

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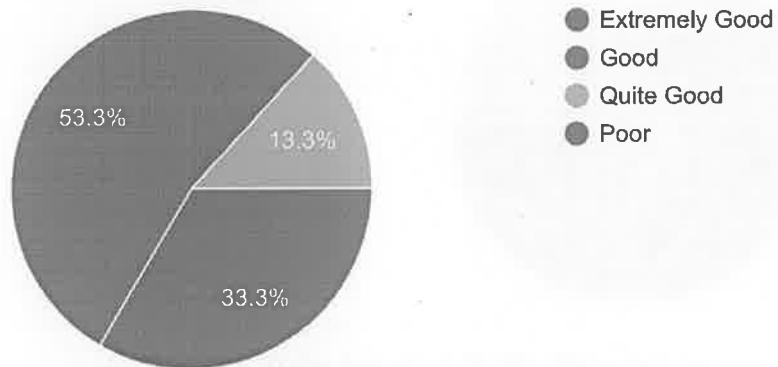


-  Extremely Good
-  Good
-  Quite Good
-  Poor



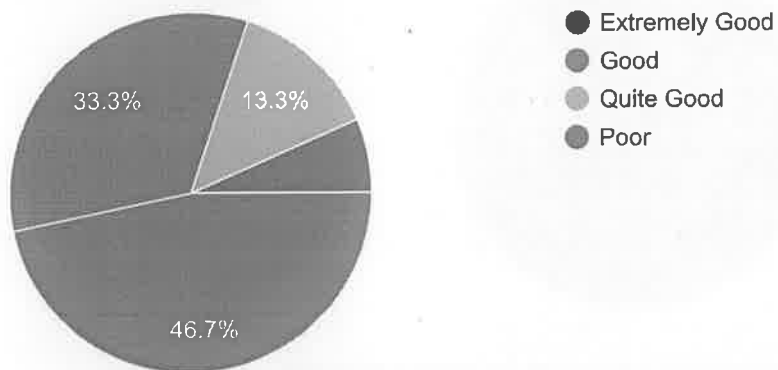
### Are you satisfied with the time allotted?

15 responses



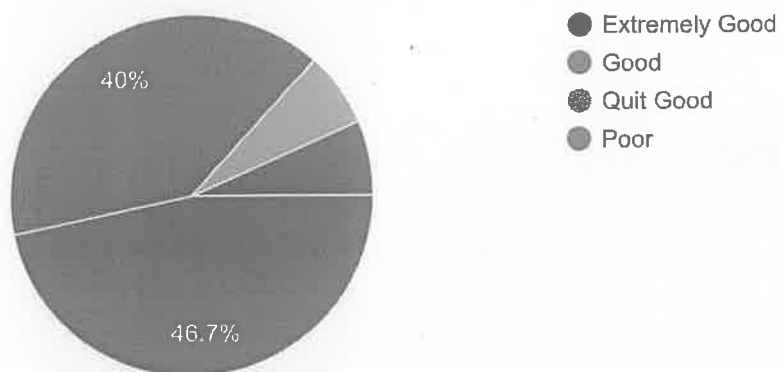
### Will you recommended this IV to your juniors in future too?

15 responses



### What is your opinion about the visit?

15 responses

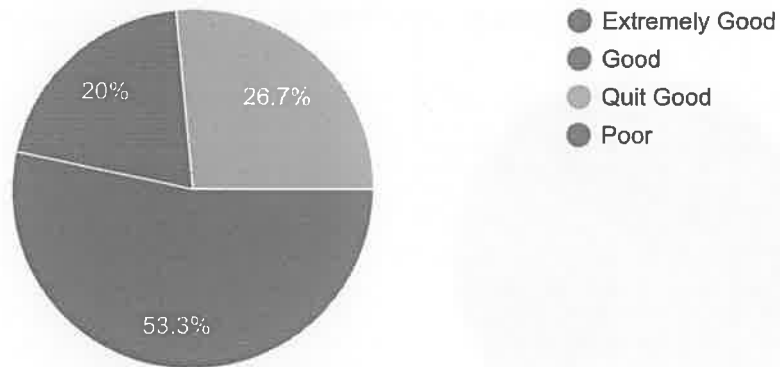




### How much this visit was useful from the knowledge and information point of view ?

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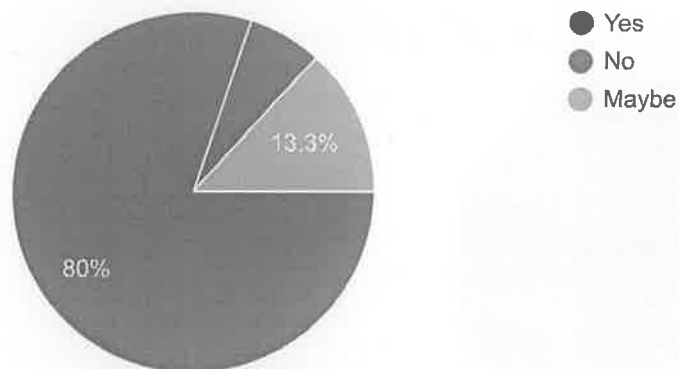
15 responses



### Overall effectiveness of the visit, did it interest you?

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15 responses



### This topic relates to which subject in your program

7 responses

Railway

Train relay optimization

Sensors, BEE

Relay

Principle of communication and wireless technology

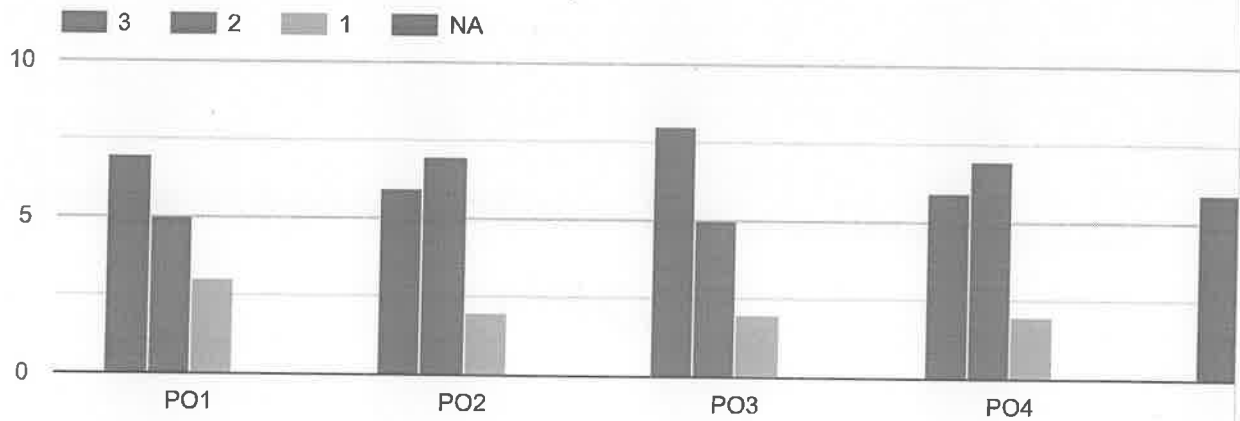
Wireless Communication





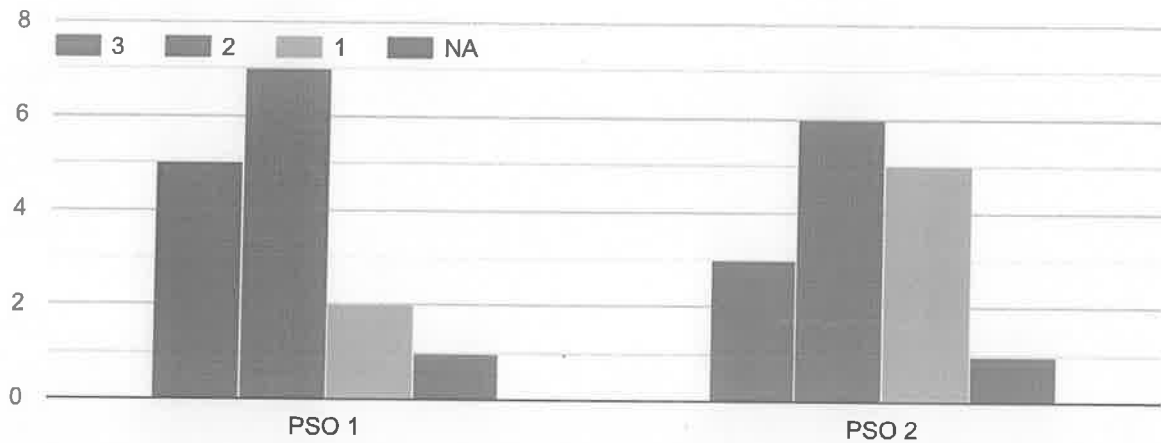
Please select which POs (Program Outcomes) could be attained due to this lecture

Write Levels- 3 (High), 2(Medium), 1(Low), NA – Not Applicable



Please select which PSOs (Program Specific Outcomes) could be attained due to this lecture

Write Levels- 3 (High), 2(Medium), 1(Low), NA – Not Applicable



## Additional comments and suggestions for future

4 responses

The IV was to good

No comments

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