

# T.T.W.R.D.C(G),KOTHAGUDEM

## I. FIELD TRIPS

Field trip is an essential part of experiential learning process. Students will show lot of enthusiasm in participating in field trip. By looking at the objects and listening to the experts directly they will learn the things quickly. This type of field trips will enhance their thinking skills in the subject. Hence department is encouraging students to participate in study tours.

### Objectives:

- Gives practical knowledge to the students.
- Critical understanding of Industrial functioning.
- Easy understanding of the physics principles involved.
- Provides new kind of learning to students.
- Increases the integrity of learning.
- Real time problem solving experience.

This department has organized different field visits to the students in and around Kothagudem. Following are the details of the field visits.

### ACADEMIC YEAR 2018-19

Field Trip to ITC-PSPD, Sarapaka 02.12.2019

ITC Ltd- PSPD, unit BCM (hereafter referred to as ITC-PSPD, BCM) is located at village Sarapaka, near Bhadrachalam, Bhadradri Kothagudem district, Telangana State and was established in the year 1975. ITC-PSPD, Unit: BCM is largest single location Integrated Pulp & Paper Boards Mill in India. The mill has implemented the state-of-the-art technologies in pulping and recovery operations by successfully commissioning the India's first Elemental Chlorine Free (ECF) Bleaching line, later followed by another line incorporating Light ECF Process. ITC-PSPD,

Activity outcomes are

- Opportunity to interact with Industry Experts
- Learning experience
- Learning experience
- Day off from the usual melancholy



### Field Trip to K.T.P.S-V & VI stage 15.02.2020

As a part of industrial visit students from final year B Sc MPC and MPCS visited the Kothagudem Thermal Power Station -KTPS- V and VI stages and got awareness on how the thermal power is generated from coal combustion and what are the key points in generating the thermal power and how the used water is recycled etc.



### ACADEMIC YEAR 2021-22

#### **Field trip-International Radiology Day 08.11.2021**

To observe this day on November 8<sup>th</sup> 2021, students of III year B.Sc Physics and Department of Physics faculty members conducted a field visit to Sri Balaji Diagnostics at Kothagudem. Dr.V. Jyothi, Radiologist educated the students and faculty about the important role played by radiography professionals in the health care and how radiography- radiology contributes to safe patient care.



ACADEMIC YEAR 2022-23

## **Field trip to Telephone Exchange, BSNL 23.03.2023**

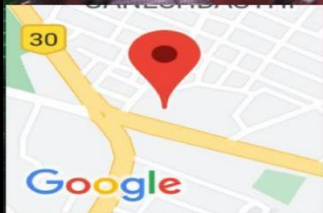
The first theoretical session was conducted for 1 Hour 30 Minutes. Sri.B.Sakru and his team gave a general introduction of the services provided by BSNL. This session focused on call setup details via landline telephone:

1. For the signal to be transferred there should be a transmitter, medium and a receiver.
2. The medium is either copper cable/optical fiber cable/air. In case of landline telephone it is obviously not the air.
3. The acoustic signal has to be converted to electrical signals by a transducer.
4. There exist about  $n^2$  connections for  $n$  number of transmitter and receiver. A Telephone Exchange is required to reduce the connections to  $n$  number.
5. A telephone exchange consists of 3 functional blocks: SWITCH ROOM, MDF (Main Distribution Frames) ROOM, and TRANSMISSION NETWORK ROOM.

For the next session, Senior Divisional Engineer (Transmission) Sri.SK.Shakeel, BSNL, students were divided into 3 groups and were taken for industrial exposure.

Each group was exposed to switching, transmission and MDF (Main Distribution Frame) units of a telephone exchange:

1. In switching module, students learnt on practical aspects of call making and receiving. They were thought on how to create the calling number and how to check the dial tone
2. In transmission module, students were briefed about OFC communication and its uses, advantages, applications. The students were shown the real cables and its working procedure.
3. In the MDF module, students learn about the requirement of main distribution frame. They were briefed about line side and exchange side of MDF.



### Kothagudem, Telangana, India

Kothagudem, Khammam, NH-221, Kothagudem Tiruvuru Road,  
Kothagudem, Ganeshbasthi, Kothagudem, Telangana 507101, India  
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### Kothagudem, Telangana, India

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Kothagudem, Ganeshbasthi, Kothagudem, Telangana 507101, India  
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# ఈనాడు భద్రాద్రి కొత్తగూడెం

విద్యార్థి వికేంద్రులకు సందర్భవ కొత్తగూడెం పట్టణం, స్టూడెంట్స్ కొత్తగూడెం గిరిజన సంక్షేమ గురుకుల మహిళా టీచీ కళాశాల ఎంట్రీ ఎలక్ట్రానిక్స్ ద్వితీయ, తృతీయ సంవత్సరం విద్యార్థులు ప్రాక్టికల్లో బాగా కనిపించారు. స్టూడెంట్స్ టీచింగ్ టెక్నిక్ టిచింగ్ వికేంద్రులకు కార్యాలయాన్ని సందర్శించారు. వికేంద్రులలోని సెల్ ఫోన్, బ్రాడ్ బ్యాండ్ సెల్ ఫోన్ల గురించి సబ్ టీచింగ్ అధికారి బానోతు సత్య, ఎస్ టీఈ డ్రాఫ్ట్ మన్ అధికారి ఎంకీ పవన్ వివరించారు. ఇన్ ఛార్జ్ ప్రొఫెసర్ జి.రాజేశ్వరి, గోపి రాజ్ కె, రామరాజు, సందీప్, జేఈలు మాన్సింగ్, సూర మహాదేవ్, జైపాల్ రెడ్డి పాల్గొన్నారు.

## నాక్కి భద్రాద్రి కొత్తగూడెం

విద్యార్థుల క్షేత్రస్థాయి పర్యటన



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