



# PSN ENGINEERING COLLEGE

Melathediyoor, Palayamkottai Taluk, Tirunelveli District, Pin - 627 152.

(Approved by AICTE and Affiliated to Anna University)

An ISO 9001 : 2015 Certified Institution

Website : [www.psnec.ac.in](http://www.psnec.ac.in) Email : [principal@psnec.ac.in](mailto:principal@psnec.ac.in)

☎ 04634-279078, 279079 Fax : 04634-279078



Lr.No: PSNEC/2019-2020/ECE/WS/PL-04

Date: 18.10.2019

## PERMISSION LETTER

Respected Sir,

Dept of ECE proposed to conduct a **Work Shop** on “**Fiber Optic Communication**” on 23<sup>rd</sup> and 24<sup>th</sup> October 2019 in Seminar Hall, PSNEC. The program would be conducted from 10.00 am to 04.00 pm in PSNEC.

Kindly grant your valuable permission to conduct the above program on the above said date and time.

Thanking you,

*Balu*  
18/10/19

**HOD/ECE**

Head Of The Department  
Electronics & Comm. Department.  
PSN ENGINEERING COLLEGE  
Melathediyoor - 627 152

*M.S. Ravikumar*  
**PRINCIPAL**

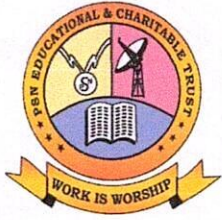
**Dr. M.S. RAVIKUMAR**

Principal

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## CIRCULAR

This is to inform that Dept of ECE is conducts a program on “Workshop - Fiber Optic Communication” on 23<sup>rd</sup> and 24<sup>th</sup> October 2019 in PSNEC Seminar Hall.

All the ECE Dept students and Staff members are requested to make their active participation on the Work Shop without fail.

**PRINCIPAL**  
**Dr. M.S. RAVIKUMAR**  
Principal  
PSN ENGINEERING COLLEGE  
Melathediyoor, Palayamkottai  
Tirunelveli - 627 152

## CC TO

1. Director
2. Director (IQAC)
3. All Department HOD's
4. Physical Director
5. Librarian
6. Warden





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## Report on Fiber Optic Communication

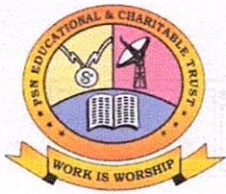
Name of the Course/Program	“Fiber Optic Communication”
Conducted on	23 <sup>rd</sup> and 24 <sup>th</sup> , October, 2019
Duration	Two Days
Venue	PSNEC Seminar Hall
Number of Participants	60 Students
Dept/Year/Semester	All ECE Dept Students
Guest Speakers	<b>Mrs. Annalakshmi, AP/ECE, Thamirabharani Engineering College, Tirunelveli.</b>
Objective of the Course/Program	The main objective of the Workshop was concept of optical fiber and its history, study of basic communication systems and electromagnetic spectrum. About principle of light penetration and reflection. To know about critical angle.

### Program Summary

The workshop on “**Fiber Optic Communication**” was conducted in ECE department students. The workshop was conducted on **23<sup>rd</sup> and 24<sup>th</sup> October 2019** from **10.00 am to 04.00 pm**.

The program was inaugurated by welcoming the gathering by **Mr. P.Babu (HOD/ECE)**, the chief guest was honored by **Dr.M.S.Ravikumar (Principal)**, and the program was felicitated by **Dr.N.Prabhu**.





The Guest speaker of the day was **Mr. Annalakshmi**, AP/ECE, Thamirabharani Engineering College, Tirunelveli. The Guest of honor highlighted the scope and opportunities available for the students and smeared light on how to capitulate the open opportunities through skills bestowed on the students. The Program was successfully concluded with the Vote of Thanks By **Mr.S.Pitthaiah (AP/ECE)**.

This Program was an eye opener to our students as they enhanced the wide range of usage of optical fiber communication. Optical fibers are arguably one of the world's most influential scientific developments from the latter half of the 20th century.

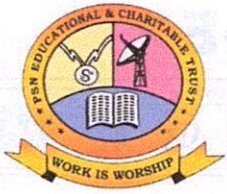
### **Why has the development of fibers been given so much attention by the scientific community and when we have alternatives?**

The main reason is bandwidth – fibers can carry an extremely large amount of information. More indirectly, many of the systems that we either rely on or enjoy in everyday life such as banks, television and newspapers as (to name only a very limited selection) are themselves dependent on communication systems that are dependent on optical fibers.

### **What are the working techniques of fiber optic communication?**

- ❖ The students were taught about the optical fiber's working techniques and also learn some basic concepts. They are,
  1. Fundamentals of Fibers
  2. Construction of Fibers
  3. Classification of Optical Fibers
  4. Modes and Propagation of Light in Fibers
  5. Advantages over Conventional Cables
  6. Areas of Application





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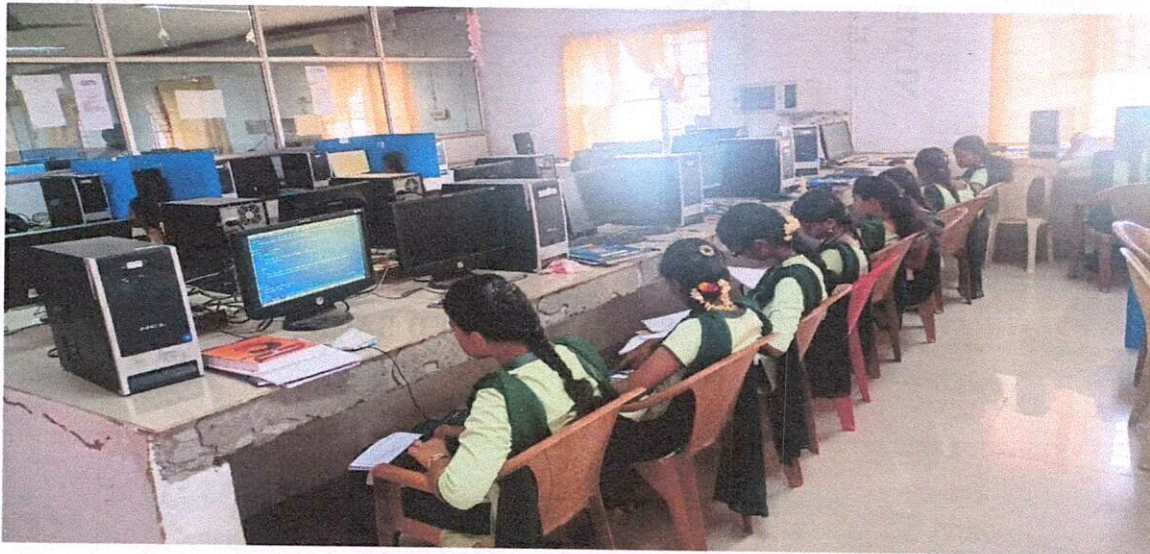
ISO 9001 : 2015



## PHOTOGRAPHS:

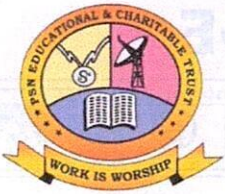


Guest Person taught about Fiber Optic Communication with effective manner on 23.10.2019



The students are learning about the Fiber Optic Communication on 23.10.2019





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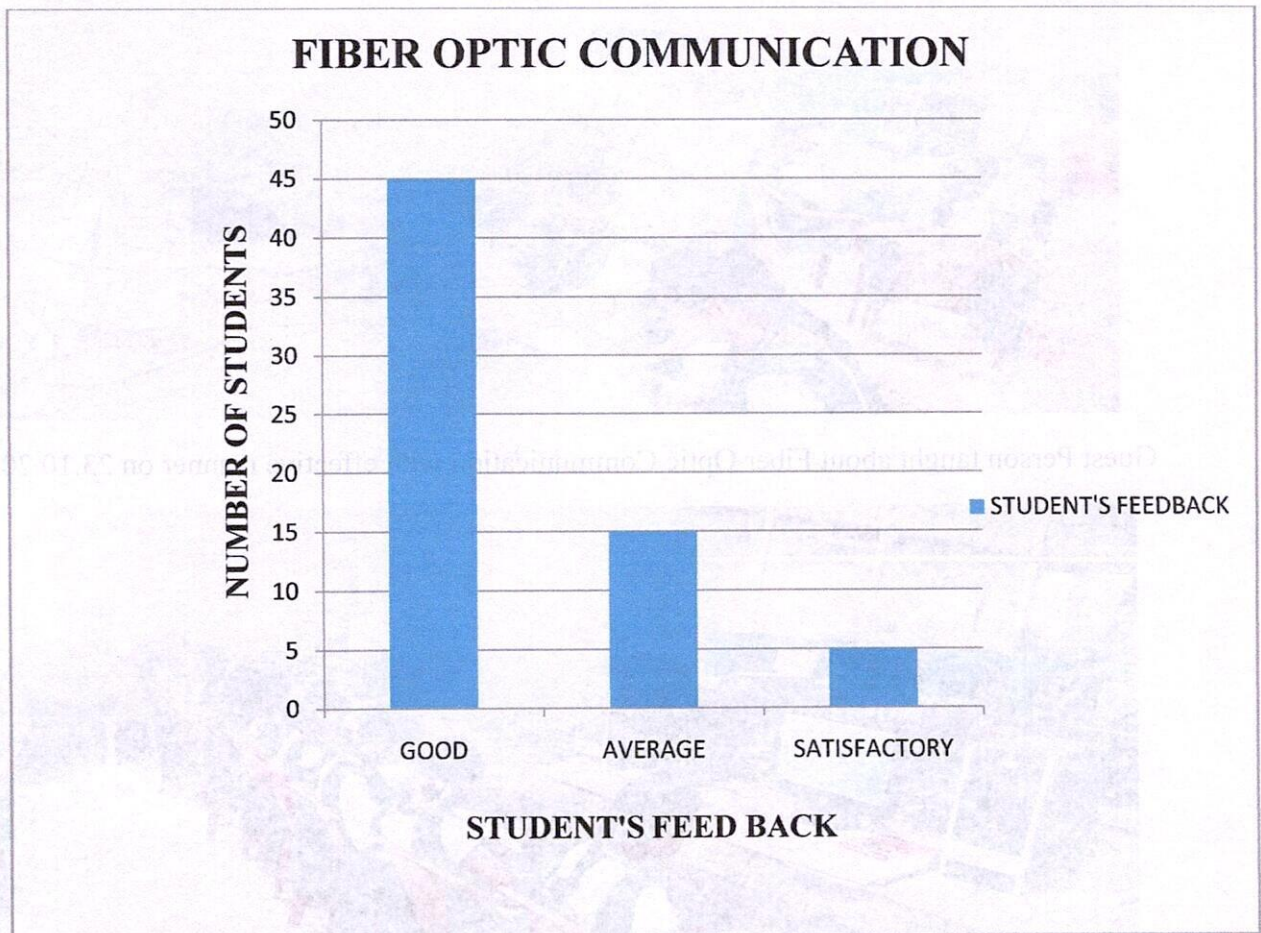
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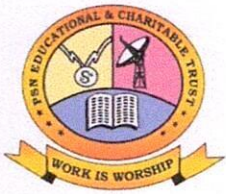
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## FEEDBACK ANALYSIS GRAPH:







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## Description:

- Based on the feedback received from the students, almost all students showed keen interest and positive intent to learning the optical fiber communication process
- Based on the feedback received from the students, few students suggested increased the communication field oriented programs.

## Action Taken:

- Based on the feedback received, we have conducted many such technical oriented programs like Wireless Communication, Mobile Communication and Satellite Communication programs once in a week.
- Based on the feedback received, we have also conducted many technical seminar and guest lecture program.

## Summary:

1. Workshop conducted on **23<sup>rd</sup> and 24<sup>th</sup> October 2019** to the students of ECE Dept.
2. Totally 60 Students participated in Workshop.
3. The Workshop was held on the topic **"Fiber Optic Communication"**
4. Students gained more knowledge about fiber optic communication.
5. Guest Person- **Mr. Annalakshmi**, AP/ECE, Thamirabharani Engineering College, TVL

V. M. Rajasekaran  
30/10/19  
In-Charge

*R. Balasubramanian*  
30/10/19  
Coordinator

*S. S. Srinivasan*  
30/10/19  
Director  
IQAC  
**DIRECTOR  
IQAC**

*M. S. Ravikumar*  
30/10/19  
Principal  
**Dr. M.S. RAVIKUMAR**  
Principal  
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