

Online session on "Optical Communication for cellular network" in the Tech-Week in (From 31 Aug-4Sept) on on 1st September, 2021

DATE: 01/09/2021

Event Coordinator(s)

1. Prof. Smita Pawar

Time & Place:

September 01, 2021

4:00pm to 5:15 pm

Google Meet

Department:

Electronics and Telecommunication

Under TSX

No. of participant:

22 Students

OBJECTIVE:

The last few decades have seen rapid advances in information and communication technology. We commonly use broadband technology with high-speed Internet connectivity at our homes, offices, and in our mobile devices. The bandwidth and high-capacity requirements due to the increased use of Internet and broadband services have exceeded our expectations in twenty-first century. Wireless optical communication (WOC) uses optical carrier in the near-infrared (IR) and visible bands and is considered a viable solution for realizing very high-speed and large-capacity communication links. It is a line-of-sight communication using a laser to transmit the information signal between two transceivers over an unguided channel which may be either the atmosphere or free space.

Session Highlights:

- 1G TO 5G OVERVIEW
- 5G GOALS
- WHY 5G NEEDS FIBER
- FIBER DENSIFICATION

RESOURCE PERSON (S): Prof. Shailaja Udtewar, XIE.

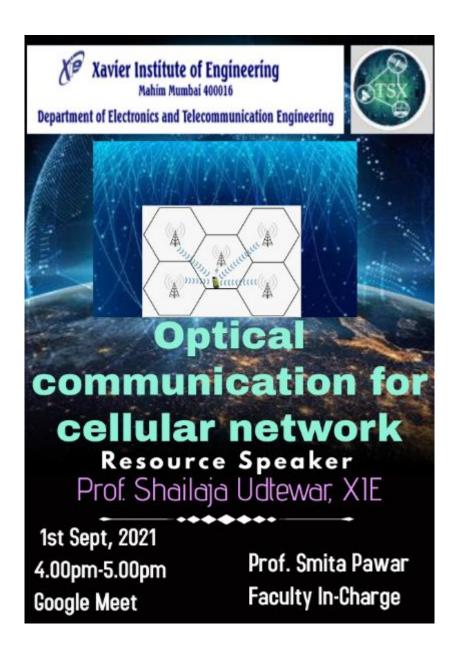
OUTCOME:

WHY 5G NEEDS FIBER? 5G, High Radio Frequencies & Small Cells, 5G requires a completely different backhaul / fronthaul connection, Cell optimization, 5G needs fiber to every cell site, Fiber deployment : cost challenges

Sunta

Prof. Smita Pawar Coordinator, Faculty in charge Dr. Vidya Sarode HoD, EXTC

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EVENT SCREENSHOT:

