

UNIT – V (Lecture 2)

MULTIPLEXING AND MULTIPLE ACCESS

By Prof. Anand A Barbind

**Department of Information Technology
Sanjivani College of Engineering, Kopergaon**



Multiplexing

- ☐ Frequency-Division Multiplexing
- ☐ **Wavelength-Division Multiplexing**
- ☐ Synchronous Time-Division Multiplexing
- ☐ Statistical Time-Division Multiplexing

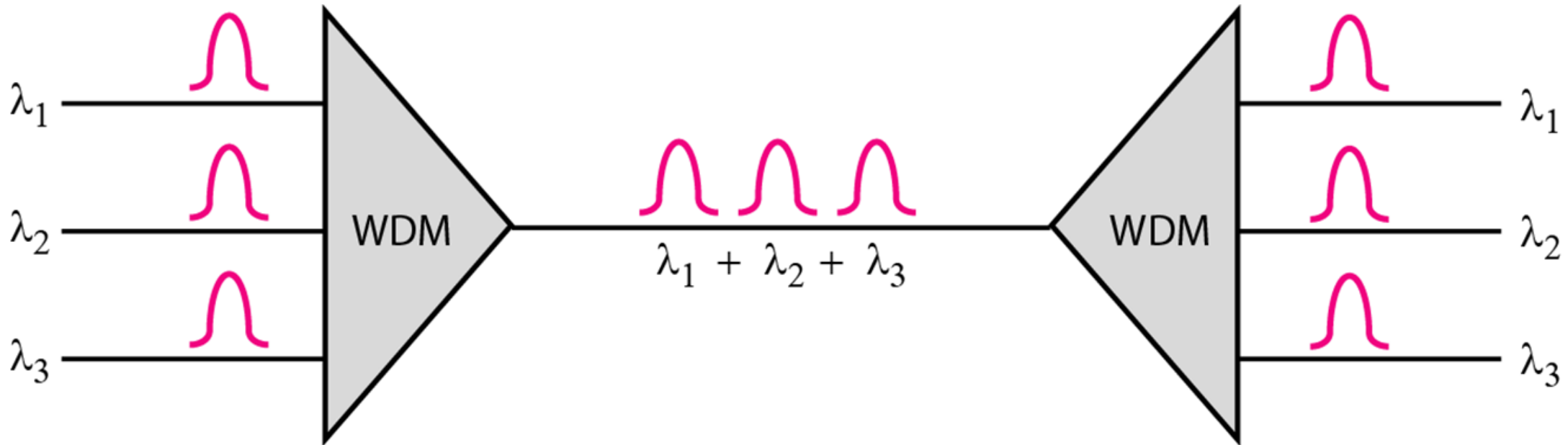


Wavelength-division multiplexing (WDM)

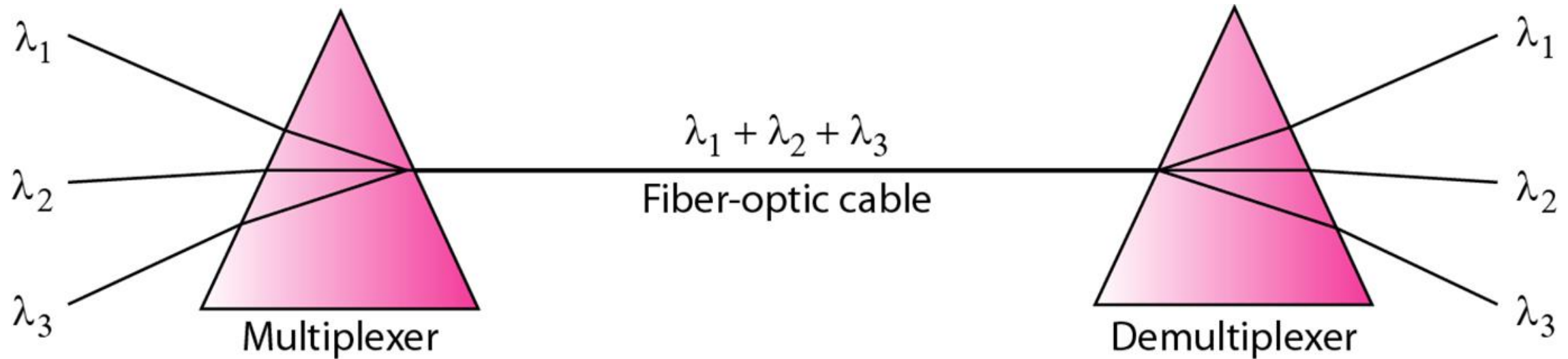
WDM is an analog multiplexing technique to combine optical signals.



Wavelength-division multiplexing (WDM)



Prisms in wavelength-division multiplexing and demultiplexing



Lecture Summary - Multiplexing

- ☐ Frequency-Division Multiplexing
- ☐ **Wavelength-Division Multiplexing**
- ☐ Synchronous Time-Division Multiplexing
- ☐ Statistical Time-Division Multiplexing



Next Lecture – Multiplexing(Contd..)

- ☐ Frequency-Division Multiplexing
- ☐ Wavelength-Division Multiplexing
- ☐ Synchronous Time-Division Multiplexing
- ☐ Statistical Time-Division Multiplexing



Assignment 5

Question 2:

Which of the three multiplexing techniques is common for fiber optic links? Explain the reason.



Ask Questions & Share Responses

You can ask your questions and share your responses at:

- Email: barbindanandit@Sanjivani.org.in and/or
- WhatsApp Group: SE IT 2022 batch, SE IT COA/FCCN 2019-2020

Lecture Presentation and Literature

To refer presentation of this lecture and literature visit:

- <https://github.com/aabarbind/IT2020>

