Report on Augmentation Course
Organized by
Department of Electronics & Telecommunication

1. **Program type:**Design Of Virtual Topology Using Heuristic Algorithm For WDM Networks

2. **Date & Time:**21/04/2019 to 25/04/2019 at 3:30 pm to 4:30 pm

3. **Venue:** Online (Google meet)

4. **No. of students registered/appeared:** 67

5. **Target students:**BE E&TC

6. **Fee Details:** FREE

7. **Instructor details:**Prof. Bhagyashri Tanaji Thorat

   P-14, Phase 1, Hinjawadi Rajiv Gandhi Infotech Park, Hinjawadi, Pune,

   Maharashtra 411057

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8. **Objectives:**

   1. To understand the basic types of optical network architecture (Physical and virtual) and Routing Algorithm.

   2. To develop a Routing and wavelength assignment algorithm program for 4 node using Matlab.

   3. To apply knowledge gained about RWA and apply on ARPANET.

9. **Outcomes:**

   1. Students will be able to state basic Types of RWA algorithm.

   2. Students will be able to explain and apply the concept Virtual Topology Using Heuristic Algorithm For WDM Networks for mesh network.

   3. Develop Matlab program on Routing and Wavelength Assignment for Mesh optical Network.
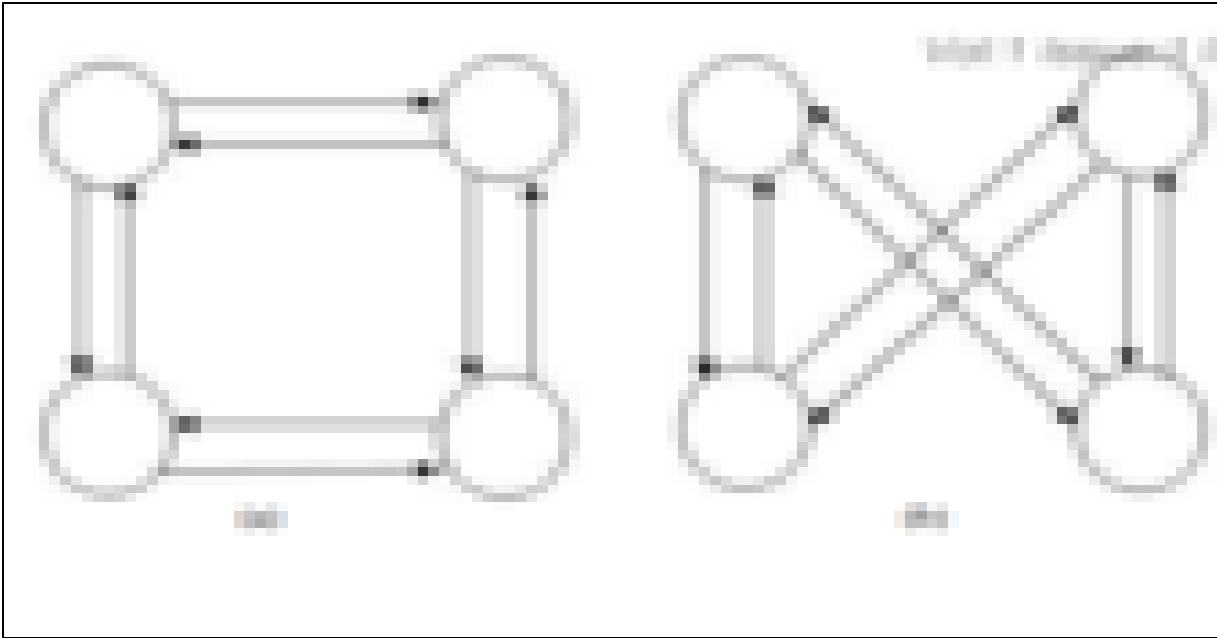
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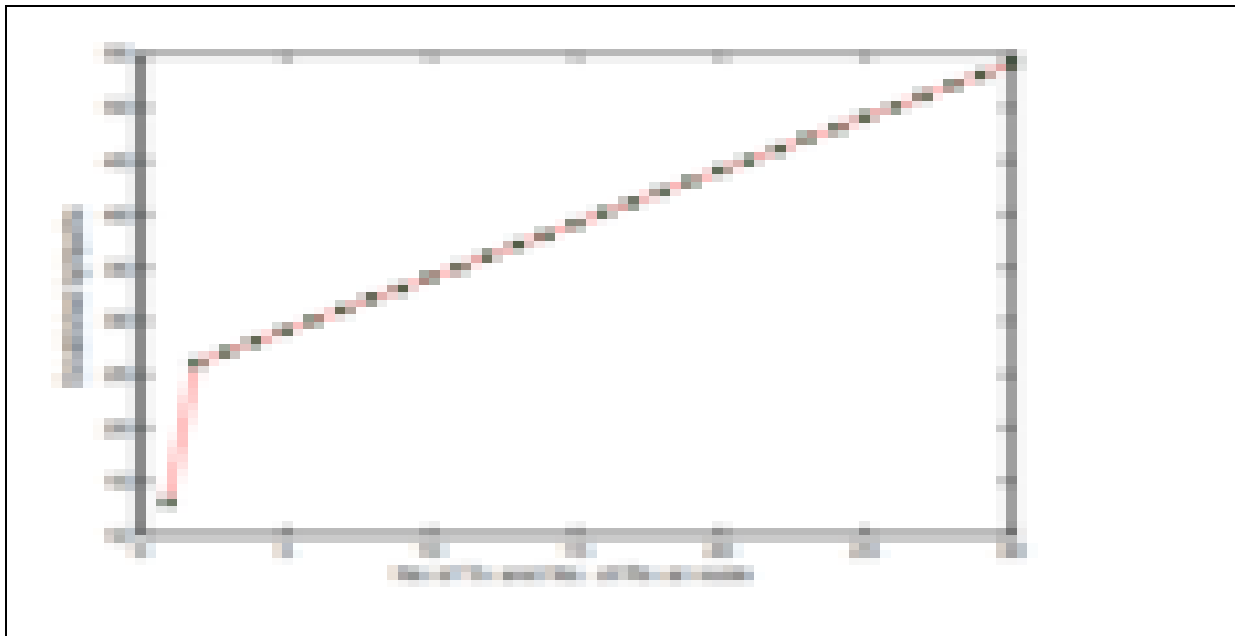

Image 1: Illustration of(a) physical and (b) virtual Topology

Image 2: Established lightpath vs no of Tx and Rx