## Assignment-4

## **COMPUTER NETWORK LAB (CSPC-227)**

NIT Jalandhar Solve all the questions

Create a scenario in which five different groups (CSE, ME, ECE, EEE and CE) of different network are directly connected through intermediate devices. Each group having 2/3 end systems. Given scenario is having atleast 4 different LAN. (USE minimum 4 hub, 2 switch and 3 router). Do the following for the given scenario.

- 1. Provide the Static IP Address to every end device available in the network.
- 2. Label each and every device in the network.
- 3. Label each and every interface with their IP Address.
- 4. Show the Intra-LAN and inter-LAN communication
- 5. Analyze the layer wise communication between the devices.
- 6. Topology used in CSE is STAR
- 7. Topology used in ECE and ME is Bus
- 8. Also explain the overall topology of network.
- 9. Network Address of CSE, ME, ECE, EEE and CE are respectively (10.0.0.0, 20.0.0.0, 110.0.0.0, 150.0.0.0 and 180.0.0.0).
- 10. Discuss the concept of gateway and provide by default first address as a gateway address.
- 11. Show data transmission between CSE and ME
- 12. Show data transmission between ECE and EEE
- 13. Use static routing between the routers
- 14. Demonstrate the RIP routing

End	
2.10	