



## Charotar University of Science and Technology Devang Patel Institute of Advance Technology and Research Department of Computer Science & Engineering

**Subject Name: Modern Networks** 

Subject Code: CS374 Academic Year: 2021-22

## **Course Outcomes (COs):**

**CO1** Measure and Analyse different network parameters.

CO2 Understand working of application layer protocols.

CO3 Understand and Analyse transport layer services and its impacts on data rate.

**CO4** Understand basic functionality of network layer devices.

CO5 Understand functionality of multiple access protocol.

CO6 Analyse traditional network and get familiar with Software defined networking.

## **Practical List**

Sr. No.	Aim Of the Practical	Hrs.	СО
1.	Installation and introduction of Mininet tool. Explore various features of Mininet tool.	2	1
2.	Create a network topology which connects 3 switches directly, with a host of each switch in mininet environment.  PC-PT 2960-24TT 2960-24TT 2960-24TT Switch 2 PC-PT PC0  PC-PT PC3  PC-PT PC5  PC-PT PC5	2	1, 2
3.	Create a Network Topology of 3 hosts and a switch using OpenFlow switch.  OpenFlow: 3hosts-1switch topology  s1 OpenFlow Switch 127.0.0.1:6634  1. Find out maximum throughput (in mbps) for the OpenFlow network created using the following command: sudo mntopo single,3maccontroller remoteswitch ovsk -link tc,bw=30,delay=25ms  2. What is the average RTT (in ms) for host (h1) when sending ping requests to host (h2)?  3. Find out command ensures an average RTT of 60 ms between the host (h1) and host (h2) for the given network topology.	3	4,6











