 

# Charotar University of Science and Technology

# Devang Patel Institute of Advance Technology and Research

**Department of Computer Engineering**

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| **Subject: Computer Networks** | **Semester: 6** |  |
| **Subject Code: CE358** | **Academic Year: 2022-2** | 3 |

**Course Outcomes (COs):**

After completion of the course students will be able to:

1. Measure and Analyse different network parameters.
2. Understand working of application layer protocols.
3. Understand and Analyse transport layer services and its impacts on data rate.
4. Understand basic functionality of network layer devices.
5. Understand functionality of multiple access protocol.
6. Analyse traditional network and get familiar with Software defined networking.

**Practical List**

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| **Sr. No.** | **AIM** | **Hrs.** | **COs** |
| 1. | Observing different cables and connectors, configuring Wifi Access Point. | 2 | 1 |
| 2. | Creating different topologies (using different types of medium) in Packet Tracer and NS-3. | 2 | 1, 2, 3 |
| 3. | Observing propagation delay using NS-3. | 2 | 1, 4, 6 |
| 4. | Observing congestion window variation of different protocol using NS-3. | 2 | 1, 2, 4 |
| 5. | Observing congestion window variation of different protocol using NS-3. | 2 | 1,5 |
| 6. | Observing Layer 2 behaviour of wireless and wireless algorithms using NS-3. | 2 | 2, 3 |
| 7. | Different server configuration in linux environment. | 2 | 3 |
| 8. | Observing implementation of reliability by different layers of TCP/IP protocol stack. | 2 | 4 |
| 9 | Configuring different routing protocols in packet tracer-3. Observing exchange of Routing information amongst routers. | 2 | 6 |
| 10. | Server configuration demonstration and workshop. | 2 | 1, 4, 5 |