**https://lh7-us.googleusercontent.com/gyoyOu1iwZ8KD5lMbgplowC33qkj21FHtqeHL38ftcRZ3jdmLytr8IyI1SroLV7otYWT1TzGI7x-XYYivRo7YMlqeao7KEIsaLgWK5RfTH5jmxXB30BLO8ZcEhvdfmq1HqI1-dC6yPVl302jN1TXIA**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Vision:** To visualize the creation of skilled proficient it professional to meet current challenges.

**Mission :**

● To encourage young minds for training &amp; entrepreneurship

● To convey standard education with rapidly changing environment with ethical values.

● To provide an environment where students can continuously learn, apply and communicate knowledge.

**Name of Program:** Diploma in Information Technology

**Course Title :** Advanced Computer Networks(22520)

**Course Outcome:**

1. Implement Network Layer Protocols.
2. Configure IPv6 Network.
3. Choose routing protocol in the given network situation
4. Implement different Transport Layer Protocols
5. Configure various Application Layer Protocols.

**PRACTICAL LIST**

|  |  |  |
| --- | --- | --- |
| **SR NO.** | **PRACTICAL OUTCOME** | **COs** |
| 1. | a. Capture ICMPv4 packets generated by utility programs like ping, traceroute and tabulate all the captured parameters using relevant software.  b. Investigate IP Protocol by capturing IP datagrams and  tabulate all the captured parameters using relevant software. |  |
| 2. | Configure IPv6 network using any network simulator |  |
| 3. | Configure IP routing with RIP using relevant software |  |
| 4. | Configure IP routing with OSPF using relevant software |  |
| 5. | Configure User Datagram Protocol (UDP) Part-I using relevant software. |  |
| 6. | Configure User Datagram Protocol (UDP) Part-II using relevant software |  |
| 7. | Configure Transmission Control Protocol (TCP) using relevant software. |  |
| 8. | Configure Dynamic Host Configuration Protocol (DHCP) using relevant software. |  |
| 9. | Configure Domain Name Server (DNS) using relevant software |  |
| 10. | a. Configure File Transfer Protocol (FTP) using relevant software  b. Configure Hypertext Transfer Protocol (HTTP) using relevant software. |  |
| 11. | **a.** Use Telnet to login a remote machine  b. Connect remote machine using Secure Shell (SSH). |  |
| 12. | Configure SMTP, POP3 and IMAP using relevant software. |  |