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|  | **NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY, GR. NOIDA** | Session:  2024-25 |
| VI Semester |
| **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING** | | |

**Computer Networks Lab (ACSE0652)**

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| **S.No.** | **Programs** | **Date** | **Signature** | **Grade** |
| 1 | To make an UTP cable with RJ45 connector and built and test simple network using UTP cable (crossover) and a hub based cable |  |  |  |
| 2 | Introduction to Network Devices (Repeater, Hub, Bridge, Switch, Router, Gateways, NIC . |  |  |  |
| 3 | Implementation of data link layer framing method such as bit stuffing in any language like C++ , Java or Python |  |  |  |
| 4 | Test the network connection using ping command and using ipconfig, netstat and trcert command provided by TCP/IP. |  |  |  |
| 5 | Implementation of CRC algorithm in any language like C++ , Java or Python. |  |  |  |
| 6 | Implementation of Hamming code (7, 4) code to limit the noise in any language like C++, Java or Python |  |  |  |
| 7 | Implementation of stop and wait protocol in any language like C++ , Java or Python |  |  |  |
| 8 | Write a program in java to find the IP address of the any site if name is given. |  |  |  |
| 9 | Write a program in java to find the IP address of the system |  |  |  |
| 10 | Implementation of Caesar cipher technique & RSA algorithm in any language like C++ , Java or Python. |  |  |  |
| 11 | Introduction to CISCO Packet Tracer. Design Bus, star, mesh, ring topology and check the connectivity using ping command. |  |  |  |
| 12 | Switch Configuration on CISCO packet tracer using CLI |  |  |  |