**Computer Networks lab**

**EC793C**

**Contacts: 3**

**Credits: 2**

Syllabus:

1) IPC (Message queue)

2) NIC Installation & Configuration (Windows/Linux)

**Familiarization with:**

3) Networking cables (CAT5, UTP)

4) Connectors (RJ45, T-connector)

5) Hubs, Switches

6) TCP/UDP Socket Programming

7) Multicast & Broadcast Sockets

8) Implementation of a Prototype Multithreaded Server

**Implementation of:**

9) Data Link Layer Flow Control Mechanism (Stop & Wait, Sliding Window)

10) Data Link Layer Error Detection Mechanism (Cyclic Redundancy Check)

11) Data Link Layer Error Control Mechanism (Selective Repeat, Go Back N)

Course outcome:

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| CO | Statement |
| CO1 | Student can describe the ‘Inter process communication (IPC-Massage Queue)’ and Network Interface Card at Windows & Linux platform. |
| CO2 | Student can illustrate the Networking cables (CAT5, UTP), Connectors (RJ45, T-connector), Hubs, Switches. |
| CO3 | Student can explain the TCP/UDP Socket Programming, Multicast & Broadcast Sockets and Prototype Multithreaded Server. |
| CO4 | Student can demonstrate the Data Link Layer Flow Control Mechanism, Error Detection Mechanism and Error Control Mechanism. |