



**B. P. Poddar Institute of Management & Technology**  
**Department of Computer Science & Engineering**  
**Academic Year: 2017-18, Semester: Even**

**List of experiments conducted including beyond Syllabus (CS-692)**

Topic in Syllabus	Assignments	CO	PO
<ul style="list-style-type: none"> <li>• NIC Installation &amp; Configuration (Windows/Linux)</li> <li>• Familiarization with Networking cables (CAT5, UTP) ,Connectors (RJ45, T-connector),Hubs, Switches</li> </ul>	1) Looking up internet address 2) Implementation of port scanner 3) Implementation of ping programming	CO1	PO1,PO2, PO3,PO12
<ul style="list-style-type: none"> <li>• TCP/UDP Socket Programming</li> </ul>	4) Program on connectionless CLIENT-SERVER using java/C 5) Program on connection oriented CLIENT Server using java/C	CO2	PO1,PO2 PO3,PO4, PO12
<ul style="list-style-type: none"> <li>• Multicast &amp; Broadcast Sockets</li> </ul>	6) Program on Multicas/Broadcast SERVER-CLIENT	CO5	PO1,PO2 PO3,PO4,
<ul style="list-style-type: none"> <li>• Implementation of a Prototype Multithreaded Server</li> </ul>	7) Program on connection oriented Concurrent (Multithreaded)SERVER using C BSD socket.	CO5	PO1,PO2 PO3,PO4
<ul style="list-style-type: none"> <li>• Implementation of               <ul style="list-style-type: none"> <li>o Data Link Layer Error Detection Mechanism (Cyclic Redundancy Check)</li> </ul> </li> </ul>	8) Program to Implement Error Detection mechanism using CRC	CO3	PO1,PO2 PO3,PO4, PO12
<ul style="list-style-type: none"> <li>• Implementation of               <ul style="list-style-type: none"> <li>o Data Link Layer Flow Control Mechanism (Stop &amp; Wait, Sliding Window)</li> <li>o Data Link Layer Error Control Mechanism (Selective Repeat,GoBackN)</li> </ul> </li> </ul>	9) Implement Stop and Wait ARQ.  10) Implement data link layer error control using Go-Back-N ARQ/Selective repeat ARQ.	CO4	PO1,PO2 PO3,PO4
<ul style="list-style-type: none"> <li>• IPC (Message queue)</li> </ul>	11) Implement IPC using message Queue	CO2	PO1,PO2 PO3,PO4, PO12
<ul style="list-style-type: none"> <li>• Beyond Syllabus</li> </ul>	12) Traffic Analysis using Wire-shirk	CO5	PO1,PO2 PO3,PO4, PO5
	13) Implement Hamming code as a error correction algorithm.	CO3	PO1,PO2 PO3,PO4,
<ul style="list-style-type: none"> <li>• Micro Project</li> </ul>			