

Maulana Abul Kalam Azad University of Technology, West Bengal*(Formerly West Bengal University of Technology)***Syllabus for B. Tech in Computer Science & Engineering**

(Applicable from the academic session 2018-2019)

Computer Networks Lab**Code: PCC-CS692****Contacts: 4P**

Name of the Course:	Computer Networks Lab
Course Code: PCC-CS692	Semester:VI
Duration:6 months	Maximum Marks:100
Teaching Scheme:	
Theory: hrs./week	Continuous Internal Assessment
Tutorial: NIL	External Assesement:60
Practical: 4 hrs./week	Distribution of marks:40
Credit Points:	2

Laboratory Experiments:

1) NIC Installation & Configuration (Windows/Linux)

2) Understanding IP address, subnet etc

Familiarization with

- Networking cables (CAT5, UTP)
- Connectors (RJ45, T-connector)
- Hubs, Switches

3) TCP/UDP Socket Programming

- Simple, TCP based, UDP based
- Multicast & Broadcast Sockets
- Implementation of a Prototype Multithreaded Server

4) Implementation of

 Data Link Layer Flow Control Mechanism (Stop & Wait, Sliding Window) Data Link Layer Error Detection Mechanism (Cyclic Redundancy Check) Data Link Layer Error Control Mechanism (Selective Repeat, Go Back N)

5) Server Setup/Configuration

FTP, TelNet, NFS, DNS, Firewall

Any experiment specially designed by the college

(Detailed instructions for Laboratory Manual to be followed for further guidance)