

Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly West Bengal University of Technology)

Syllabus for B. Tech in CSE (Artificial Intelligence and Machine Learning)

(Applicable from the academic session 2020-2021)

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

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)