

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 Assessment: 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)