

National Institute of Technology Calicut
Department of Computer Science and Engineering

Winter Semester 2021-22
Course Plan for CS3093D: Networks Laboratory

Credits: 3

Class: B. Tech. (S6 CSE and S8 CSE)

Slot: P

Pre-requisite : NIL

Lab Hour : Mondays (2:00 pm to 5:00 pm)

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Tentative Date	Question Upload	Evaluation Date
11, Jan.'22	Q-01	NIL
17, Jan.'22	Q-02	Eval-01
24, Jan.'22	Q-03	Eval-02
31, Jan.'22	Test-1	No Evaluation
07, Feb.'22	Q-04	Eval-03
14, Feb.'22	Q-05	Eval-04
21, Feb.'22	Q-06	Eval-05
28, Feb.'22	Q-07	Eval-06
07, Mar.'22	Test-2	No Evaluation
14, Mar.'22	Session on ns-3	Eval-07
15, Mar.'22	Q-08	No Evaluation
28, Mar.'22		No Evaluation
04, Apr.'22		Eval-08

List of experiments

Q-01 : Basic network commands in linux

Q-02 : Wireshark and Packet capture

Q-03 : Client-Server using TCP and UDP Socket communication

Q-04 : TCP based Multi-Client Chat system

Q-05 : Implementation of routing algorithms (link state and distance vector)

Q-06 : Build a simple HTTP server

Q-07 : Build a simple SMTP server

Q-08 : ns-3 related experiments

Reference materials

- W. R. Stevens, Unix Network Programming – Networking APIs: Sockets and XTI, 2/e, Volume 1, Pearson Education, 2004.
- W. W. Gay, Linux Socket Programming by Example, 1/e, Que Press, 2000

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Evaluation Scheme

- Weekly evaluation will be conducted as per the schedule
- Evaluation will be online; either as quiz or as viva-voce

Grading Policy

- *Grading will be relative*

Standard of Conduct

Each student is expected to adhere to high standards of ethical conduct, especially those related to cheating. Any academic dishonesty will result in zero marks in the corresponding exam or quiz and will be reported to the department council for record keeping and for permission to assign F grade in the course. CSE Department policy on academic integrity is available at: <http://minerva.nitc.ac.in/cse/sites/default/files/attachments/news/Academic-Integrity.pdf>
