National Institute of Technology
Department of Computer Science and Engineering
Calicut - 673 601, Kerala, India

Tentative Course Details: January 2016 - May 2016
(The instructor reserves the right to adjust the schedule/experiments when required)

Course:

Code	:	CS3093
Title	:	Networks Lab
Lab Hours	:	Thursday 2.00pm – 5.00pm
Venue	:	Network Systems Lab, IT Lab Complex

Instructors:

Name	:	Sumesh T A, Pournami P N
Email	:	sumesh @nitc.ac.in, pournamipn@nitc.ac.in

Course Objective:

- To learn the theory and practices in socket programming using C/Unix Platform
- Learn simulation tools for network performance analysis etc

References:

1. W. Richard Stevens, Unix Network Programming, Volume 1, Pearson Education
2. Warren W Gay, Linux Socket Programming by Example, Que Press
3. Beej's Guide to Network Programming (http://beej.us/guide/bgnet/)

Grading Method and Weightage:

Lab Continuous Evaluation : 60%
Final Exam:30%
Quiz and Viva: 10 %
Evaluation Schedule*:

Date	Experiment**
07.01.2016	Tutorial Class and Warm up experiment
14.01.2016	Experiment 1 (TCP Client Server)
21.01.2016	Evaluation 1
28.01.2016	Experiment 2 (UDP client Server)
04.02.2016	Evaluation 2
18.02.2016	Experiment 3 (Multpile Connection TCP Server)
25.02.2016	Evaluation 3
03.03.2016	Experiment 4 (Multpile Connection UDP Server)
10.03.2016	Evaluation 4
31.03.2016	Experiment 5 (Fully Concurrent TCP experiment)
07.04.2016	Evaluation 5
14.04.2016	NS2 Experiment / buffer Day
21.04.2016	Exam

* The schedule is tentative
** Experiment details will be posted in moodle server (http://eduserver.cse.nitc.ac.in/)

Evaluation Guidelines:

- Every student must prepare and bring a design document for the problem given while coming to the lab. (Design carries marks)
- Every student must be ready with their code before evaluation starts. However this code must be in conformance with the design shown. Any non-conformance will be treated as plagiarism.
- Every student is expected to complete modification to the code within the time specified by the evaluator. If he/she fails to do so before the lab time, the evaluation of that experiment will not be done on another day and will be awarded the minimum eligible marks.
- Each experiment will be evaluated by a different evaluator to make the evaluation fair.

Grading Policy:

- Grading will be **absolute** and marks to grade conversion formula: 90-100: S; 80-89: A; 70-79: B; 60-69: C; 50-59: D; 40-49: E; <40: F.
- Absence without prior written permission from the instructor will be equivalent to zero marks in the corresponding evaluation.
- There will be no makeup exams except in case of genuine reasons. In the event of such exceptional cases, the student must discuss the matter with the instructor and must get written permission from HOD before the date of exam.
- Late submissions of experiments are not permitted without prior written permission.
- All issues regarding evaluations must be resolved within one week after the marks are announced.
- All submissions will be checked by automated tools for plagiarism

Standard of Conduct:

Each student is expected to adhere to high standards of ethical conduct, especially those related to cheating and malpractices. **Any submitted work MUST BE an individual effort.** Any academic dishonesty will lead to an **F grade** in the course and will be reported to the department council for record keeping and for further disciplinary actions.