



Department of Computer Science and Engineering
National Institute of Technology Tiruchirappalli

1. Course Outline			
Course Title	Network Programming Laboratory		
Course Code	CS608		
Department	CSE	No. of Credits	2
Pre-requisites Courses	Computer Networks	Faculty Name	Dr.B.Nithya
E-mail	nithya@nitt.edu	Telephone No.	0431 - 2503214
Course Type	Laboratory Course		

2.Course Overview
This course emphasizes various network elements, their usages in communications and simulated study of Wired and Wireless network performance.
3. Course Objectives
<ul style="list-style-type: none">★ To install & analyze the performance of virtual Machines and various Servers★ To have a hands on experience IP Tables and Traffic Analyzer★ To Simulate communications in wired and Wireless networks
4. Course Outcomes (CO)
<ul style="list-style-type: none">★ Technical knowhow of the various components such as VM, IP Tables and Traffic Analyzer and its importance in communication★ Ability to invoke simulated studies of Wired and Wireless Networks through network simulation

5. List of Experiments

S.No	Name of the Experiments
1	Socket Programming
2	Implementation of FTP and Web Server
3	Installation of Virtual Machines and Servers (DHCP and DNS server)
4	IP Tables & Linux firewalls
5	Installation of Packet/ Traffic Analyzer & Analyzing TCP and UDP traffic
6	Installation of Network Simulator & Basic Programming in NS
7	Simulating MAC Layer Protocol (Wired & Wireless Networks)
8	Simulating Network layer/ Transport Layer protocol (Wired & Wireless Networks)

6. Course Assessment Methods

1	Regular Lab Class Performance & Viva	72
2	Lab Exam	28
	Total	100

7. Course Exit Survey

★ As per MIS Feedback system

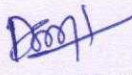
8. Course Policy (including plagiarism, academic honesty, attendance, etc.)

Attendance: Minimum 85% is mandatory to write the end semester examination. Students having attendance 75% to 84% are eligible for the end semester exam only after submitting assignments. Students have to redo the course, if they have less than 75% of attendance.


Medical Certificate/ On Duty Certificate should be submitted immediately after rejoining.

FOR SENATE'S CONSIDERATION

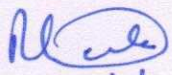
Course Faculty


(B. Nithya)

CC-Chairperson


3/1/17

HOD


3/1/2017