ECE 429 - COMPUTER COMMUNICATIONS LAB

Rami Rashid

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Helen and John C. Hartmann Department of Electrical and Computer Engineering
New Jersey Institute of Technology
ECE 429 Computer Communications Laboratory

Instructor: Rami Rashid
Email: raa62@njit.edu
Time: Wednesday 6:00-10:00 pm
Class Location: 101 C - FMH Building
Office Hour: Wednesday 5:00-6:00 pm. Any other time, please send me an email

Prerequisites: ECE 422 Computer Communication Networks
Textbook: No textbook. A Laboratory Manual will be provided
Credits: 2

Course Catalog Description:
Experiments with different protocols and standards used in the TCP/IP computer communications, including Ethernet/802.3 standard, Address Resolution Protocol (ARP), Internet Protocol (IP), Transport Control Protocol (TCP), User Datagram Protocol (UDP), and others. Exercises with network measurements and virtualization tools, and configurations of some commercial routers are included.

Syllabus:
- Introduction to Linux
- Chapter 1: Introduction to the Computer Communications Laboratory
- Chapter 2: Tools for Examination of Communication Protocols
- Chapter 3: Communication at Data-Link Layer
- Chapter 4.a: Communication at the Network Layer (Part I)
- Chapter 4.b: Communication at the Network Layer (Part II)
- Chapter 5: Configuration of Cisco 891 Routers
- Chapter 6: Beyond the Application Layer: Socket Programming
- Final Exam
- Final Project

Grading Policy:
- Lab Reports and Performance 40%
- Quizzes 30%
- Final Exam 20%
- Final Project 10%

Attendance is mandatory to receive the credits

Honor Code: Any violation of the NJIT Honor Code will be brought to the immediate attention of the Dean of Students.