MAT 279: Data Communications and the Internet
Fall 2009

Instructor: Prof. Shamik Sengupta

Class Room: 4102
Class time: Tuesday/Thursday: 7.50pm - 9.05pm
Office Hrs: Tuesday/Thursday: 6.45pm - 7.45pm or by appointment
Instructor’s website: http://jjcweb.jjay.cuny.edu/ssengupta/
(Email: ssengupta@jjay.cuny.edu)

Course Description:
This course provides an introduction to the topics related to "data communications, Internet and networking" both in the wired and wireless domain. A simple top down approach of network protocol stack will be studied. This course will also introduce the basic topics of HTML, Webpage development and fundamental JavaScript. The course is designed to give the students experience in various aspects of data communications and Internet technologies through the assignments and projects.

Course Texts:
The text for the course is “Computer Networking: A top down approach, 5th ed. Addison-Wesley” by Kurose and Ross. The instructor shall also provide written notes and slides for many topics. Notes and slides will be posted either on the course website (http://jjcweb.jjay.cuny.edu/ssengupta/) or on the course’s Blackboard site. References to current articles from journals, magazines and other websites may also be used.

Reference Texts:
Slides and other articles provided by the instructor.

Syllabus:
The following is the tentative course syllabus. This may change depending on time available, student and instructor expectations, student feedbacks as we progress in the semester.

- Internet, Layered architecture, Communication protocols,
- Application Layer (HTTP, FTP, etc.),
- HTML, JavaScript,
- TCP, IP addressing,
- Wireless and Mobile Networks,
- Security.
**Student Assessment:**
This is a tentative grading division. This may change later and will be updated in the course website.

- Project: ~ 25%
- Homework assignments + In-class assignments: ~ 40%
- Mid-term exam : ~ 20%
- In-class quiz (HTML): ~ 15%
- Extra-credit Assignments (as needed)

**Other Points:**

1. Please use “MAT 279 <YOUR SUBJECT>” in the subject line in the emails.
2. All the assignments must be done individually.
3. Students should have access to a computer with Internet connection for assignment purpose.
4. Final project will focus on the networking/communications/Internet technology issues in state-of-the-art protocols, applications, and systems (wired and/or wireless). Must be done individually.
5. A written report of the project is expected at the submission time along with any implementation code (if there is any).
6. Grades for the project will be based on criteria such as innovativeness, presentation/organization of project report, and completeness.