Information Ethics and Security Management

MGT 552

▪ Course Description: *Privacy* as well as *piracy* became serious issues in enterprises for their sustainability. About half of the course will deal with them. Overall review on digital information security will be covered as well. Information security will be approached in terms of network security, operating system security and database security. Data cryptology, digital signatures, digital certifications will be also dealt with. At the age of introducing Chief Privacy Officers and Chief Security Officers in a number of top-notch enterprises, students will experience how significant are the issues and can be prepared to manage them by deeply dealing with a particular topic each of them chooses throughout the semester. Prior knowledge on information technology is not needed for taking this course. A number of real-world cases are dealt with in this course.

▪ Class Schedule: To be determined

▪ Grading Policy: No exams.

Only a term paper is needed for evaluation and it will be advised how to write the term paper individually, 1:1, throughout a semester. Term papers, one per individual student, are the only means of evaluation. Phase by phase, a term paper is carried out by an individual student by consecutively submitting certain portions of the paper, five times throughout the course, based on the comments and feedbacks made by instructor for their previous submissions. Each time a student submits his/her paper, it will be commented by the instructor as a feedback. The feedback will then be used by the student to improve the paper and how much he or she reflected the feedback to improve the next version of paper is evaluated as a grade evaluation. There is no mid-term or final examination.

▪ Instructor: Songchun Moon

▪ Text and Reading Materials:

1. C. Pfleeger, *Security in Computing*, Prentice-Hall, 1997.
2. S. Castano, M. Fugini, G. Martella and P. Samarati, *Database Security*. Addison-Wesley, 1995.
3. Selected Articles from Security Magazines and Periodicals

▪ Lecture Schedule

1. Concept of Confidentiality
2. Concept of Integrity
3. Concept of Availability
4. Concept of Assurance
5. Privacy Issues
6. Identity Issues
7. Piracy Issues
8. Intellectual Property Issues
9. Intrusion Types
10. Hacking
11. Cryptology
12. Public Key Infrastructures
13. Trusted Information Security
14. Electronic Payment
15. Mobile Security Issues