INTRODUCTION TO COMPUTER SCIENCE

CREDIT	3	INSTRUCTOR	Han Tack Don
OFFICE	Engineering BuildingD802	OFFICE HOURS	TBA
TIME	13:30 ~ 16:00	CLASSROOM LOCATION	TBA
E-MAIL	Hantack@yonsei.ac.kr		

[COURSE INFORMATION]

COURSE DESCRIPTION & GOALS	This course will cover introduction to computer science. Topics include: digital technology, computer architecture, operating system, computer network, programming language, concept of computer algorithms and Artificial Intelligent. Successful completion of the course will allow students to: 1. Understanding fundamental principles of computation 2. Computer organization and operating system 3. Learn principal programming concepts and structures 4. Preparing the advanced computer science courses.
PREREQUISITE	There are no prerequisites.
COURSE REQUIREMENTS	In this course, lectures will cover the text book chapters. To support book chapters, six Lab assignments and one project will be given. Every class will consists of two hour lecture and one hour Lab. No programming experience is required. Students will learn Python language and several basic simulation tools. Lab will cover Logisim, CPU and RAM simulator, Python, MySQL and Deep Learning tool. Six Lab assignments and one project will be provided during this term.
GRADING POLICY	Exam 1: 20% Exam 2: 20% Exam 3: 20% Six Lab Assignments: 30% One Project : 10%
TEXTS & NOTES	Compute Science 12th Edition, Pearson Publisher J Glenn Brookshear
INSTRUCTOR'S PROFILE	Tack Don Han is a professor in the department of computer science at Yonsei University. He received his Ph.D. Degree in Computer Engineering from

	University of Massachusetts at Amherst in 1987, M.S. degree in Computer Engineering from Wayne State University in 1982, and B.S. degree in Electronics at Yonsei University in 1978. His current research interests include the design of 3D graphics System, User interface design, and Argument Realty and Smart Space Design.

[WEEKLY SCHEDULE]

WEEK (PERIOD)	WEEKLY TOPIC & CONTENTS	COURSE MATERIAL & ASSIGNMENTS	NOTES
1	Course Overview Data Storage Data Manipulation	Chapter 1- Chapter 2	Lab1: Logisim Thurs
2	Operating System Network and Internet Algorithms Programming Language Exam1 (30 mins)	Chapter 3 –Chapter 6	Lab2: CPU and RAM simulator Mon Lab3:Python1 Wed Exam1: Thurs
3	Software Engineering Data Abstractions Database Systems Computer Graphics Exam2 (30mins)	Chapter 7-Chapter 10	Lab4:Python2 Mon Lab5:Python3 Wed Exam2: Thurs
4	Artificial Intelligence Deep Learning Theory of Computation Exam3 (30mins)	Chapter 11- Chapter 12	Lab6: MySQL Mon Project Lab: Deep Learning Tues Project Lab: Weds Exam3: Thurs