International School of Engineering
Faculty of Engineering
Chulalongkorn University

Course Syllabus

Course Number: 2143101
Course Name: Introduction to Information and Communication Engineering
Semester: 1/2007
Credit: 3(3-0-6)
Date and Time: Thursday, 1-4pm

Course Website

www.cp.eng.chula.ac.th/~piak/teaching/ice/intro2007/index.htm
Any announcement will be done solely on website.

Instructor

Prabhas Chongstitvatana
Email: prabhas@chula.ac.th
Office: Eng. Building 4, floor 18, room 13

Course Description (From the bulletin)

Fundamental engineering concepts and practices. Technology concepts and trends
underlying current and future uses of information and communication technology.
Introduction to engineering management including important aspects of management
science.

Course Objective (of our class)

This class is designed to familiarize the students with the concepts and trends of
information, communication, and engineering. I will emphasise three objectives: 1)
engineering thinking, 2) computational concept and 3) communication in electrical
engineering discipline. Students will discuss the relevant cases related to objectives. In
computational concept part, students are required to work with my software that simulate
"building a computer system". No prior programming skill is required. I will also invite
many professionals from the industry to share their views on the future of ICT. Site visit is
another good experience for the students.

Course Schedule

Date	Wk #	Topics	Note
Aug 16	1	The definition of ICE	Assignment 1
Aug 23	2	Computational concepts – Part I	Assignment 2
Aug 30	3	Computational concepts – Part II	Quiz 1, Assignment 3
Sep 6	4	Computational concepts – Part III	Quiz 2, Assignment 4
Sep 13	5	EE communication – Part I	Quiz 3, Assignment 5
Sep 20	6	EE communication – Part II	Quiz 4
Sep 27	7	Student presentation	Midterm prep
Oct 4	8	Midterm	To be announced
Oct 11	9	Current issues in ICE, and your future	Final presentation out
Oct 18	10	Industry Experience I (Guest speaker)	Reading assignment
Oct 25	11	Industry Experience II	Site visit, assignment (site visit report)
Nov 1	12	Recap & Discussion Industrial Exp I & II	
Nov 8	13	Some theory	
Nov 15	14	Industry Experience IV (Guest speaker)	
Nov 22	15	Presentation I	Final presentation
Nov 29	16	Presentation II and Wrap-up	Final presentation
Dec 6	17	Final Exam	To be announced

Assignments

You are expected to turn in your assignment at the beginning of the next class. Late submission of the assignment will not be accepted. You can submit your assignment via email. Quiz is usually expected in the following class.

Grading Policy

Class participation	10%
Assignments & Presentations	15%
Quiz	10%
Midterm	25%
Final	40%

Text/Reading Materials

Required: Using Information Technology, 7th Edition, Stacy C. Sawyer, Ryan K. William
ISBN 9780071107686