

**Course: Management on System of Systems****Instructor: Professor Wheyming Song 桑慧敏****2014 Fall****National Tsing Hua University****Weekly schedule** (might be adjusted according to the real situation)

Week	Date	Content
1	9/18	<b>Course Introduction</b> <ul style="list-style-type: none"><li>- <b>Begin with the end</b> (以終為使)</li><li>- <b>Thinking vs. Methods</b> (想法論與方法論)</li><li>- <b>Definition : System of Systems, Management, BUMPs</b></li></ul>
2	9/25	<b>System 1: Outstanding Enterprise &amp; Common Wealth &amp; CSR</b> (社會企業責任)
3	10/2	<b>System 1 : Outstanding Enterprise &amp; Common Wealth &amp; CSR</b> (社會企業責任)
4	10/9	<b>Report 1 (專題報告 一): System 1</b>
5	10/16	<b>System 2 : Energy Plus</b>
6	10/23	<b>System 2 : Energy Plus</b>
7	10/30	<b>System 2 : Energy Plus</b>
8	11/6	<b>Report 2 (專題報告 二): System 2</b>
9	11/13	<b>System 3 : Vascular Sounds</b>
10	11/20	<b>System 3 : Vascular Sounds</b>
11	11/27	<b>System 3 : Vascular Sounds</b>
12	12/4	<b>System 3 : Vascular Sounds</b>
13	12/11	<b>Report 3 (專題報告 三): System 3</b>
14	12/18	<b>System 4 : PE or ED in health care (Simulation Software)</b>
15	12/25	<b>System 4 : PE or ED in health care</b>
16	1/1	<b>System 4 : PE or ED in health care</b>
17	1/8	<b>System 4 : PE or ED in health care</b>
18	1/15	<b>Report 4 (專題報告 四): System 4</b>

## 一、課程說明

Many systems with which people must deal in today's and tomorrow's environments lie outside of the domain of conventional textbook approaches to analysis and management. The purpose of this course is to introduce students to the fundamental concepts underpinning these system-types and to discuss methodological approaches to their analysis and management.

The goal of this course is making quantitative decisions with qualitative information for complex enterprises.

## 二、教學軟體

R , Flexsim and Energy Plus

## 三、成績評核

Homework 20%

Class Discussion 20%

Term projects 30%

Final Project 30%