

# Course Schedule: Facility Planning (設施規劃)

Meeting days: Thursdays. Regular course time: Thursdays 3:30-6:20 P.

#	Date	Subject	Ch. #	Remark
1	14.09.18	Course Overview & Logistics	Ch01	Case packet & textbook distr. Team formed, Proj. Prop initiated
2	14.09.25	Overview of Mfg Facility Design & Material handling; SPIF overview 課程定位與生產系統設計診斷概觀	Ch02	Submit personal data & team membership
3	14.10.02	工業設施規劃概觀及資訊來源	Ch03	Teams identify Project
4	14.10.09	Facility performance indices 生產系統績效指標; Project set-up & Charter 專案設定與配置	Ch04	
5	14.10.16	Flexsim Simulation tool, session 1		R827 TA (Instructor travels)
6	14.10.23	Mfg System Design Process Overview 製造系統設計流程概觀	Ch05	
7	14.10.30	Report Facility perf. Indices of your project. (5-8 min/ea)		HW1: Project Charter/ proposal + Perf index (5 min. each team report.)
8	14.11.06	Process Modeling & & Basic Tools (Operations Flow Chart); 流程模式化	Ch06	@ least 1 <sup>st</sup> visit to project org.
9	14.11.13	FlexSim Simulation tool, Session 2		R827, TA
10	14.11.20	Mfg Diagnosis: Flow Analysis Advanced Tools (FLA)	Ch06	
11	14.11.27	Line configuration & process balance design	Ch07	HW 2 assign: Process balance
12	14.12.04	Process balance design	Ch07	
13	14.12.11	SLP – block layout & Detail design briefing	Ch08	HW 2 Due: Process balance
14	14.12.18	FlexSim Simulation tool, Session 3		R827 (TA)
15	14.12.25	Ch 10: Material Handling intro.+ Summary		
16	15.01.01	新年 放假		
17	15.01.08	Final exam		
18	15.01.15	Final presentations 3:30-6:20P; 7:10-9:40P		(20/25 min./ea). ALL 專題 reports & 心得 due: 1/24(Sa) 11PM

Flexsim Consulting:

- TAs; 吳欣樺 [wu.annie@steam.ie.nthu.edu.tw](mailto:wu.annie@steam.ie.nthu.edu.tw); 孫韻翔 [shyang0508@hotmail.com.tw](mailto:shyang0508@hotmail.com.tw)  
(洪柏璿 [Hong.jealousy@steam.ie.nthu.edu.tw](mailto:Hong.jealousy@steam.ie.nthu.edu.tw))
- TA Office hour in R705:

**Textbook:**

- [1] Class Handout (講義) (自行印出)
- [2] 許棟樑, “生產系統設計與診斷”, 亞卓國際顧問股份有限公司, 2014/9 再版, ISBN 978-986-85795-5-2. 原價 NT 600. 本課程協議特惠價 NT 400. (Required) TA 登記和處理.

**References:**

- [1] Fred E. Meyers & Mathew P. Stephens, “Manufacturing Facilities Design and Material Handling”, latest Ed., Prentice Hall, (歐亞)
- [2] Tompkins, White, Bozer, Frazelle, Tanchoco, and Travino, “Facilities Planning”, 2nd Ed., John Wiley and Sons, Inc. (華泰)
- [3] Richard Muther and Lee Hales, “Systematic Planning of Industrial Facilities – S.P.I.F.”, Vol 1 & 2. Management & Industrial Research Publications.
- [4] 林立千, “設施規劃與物流中心設計”, (智勝文化)

Homework listing:

- HW0: Team membership & Personal data.
- HW1: HW1: Project Charter/ proposal + Perf index
- HW2: Process balance
- HW3: Simulation of the current project & ID deficiencies
- Final Project Reports: Putting it all together in proper order. (Word .doc file + powerpoint .ppt file)