

朝陽科技大學 093學年度第1學期教學大綱
Semiconductor Manufacturing and Management 半導體製造與管理

當期課號	6094	Course Number	6094
授課教師	吳欣潔	Instructor	WU,HSIN CHIEH
中文課名	半導體製造與管理	Course Name	Semiconductor Manufacturing and Management
開課單位	工業工程與管理系(二進)五A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程除了簡介IC的製造流程之外，也提供管理半導體廠的基本技巧。同時還以台積電的製造管理系統為講課的範例，加深學生對實際產業的印象。本課程可以當做學生進入半導體廠工作前的準備；也可以將所學的方法應用到其他的工業。	Objectives	The course not only briefly introduces IC manufacturing flow, but also provides basic skills for managing semiconducting fabrication. Besides, illustrations of tsmc's management systems are lectured to increase students' impression of realistic semiconducting industry. The course can be considered as the preparation for entering semiconducting industry. The students also can apply those learned methods to other industries.
教材	隨堂發講義/Handout	Teaching Materials	
成績評量方式	期中考30%；報告30%；期末考40%	Grading	Midterm report 30%, report 30%, final exam 40%.
教師網頁	http://www.cyut.edu.tw/~hcwul/		
教學內容	課程主題包含: 基礎IC製造流程介紹, 半導體製程材料及化學物品, 元件技術, 氧化與擴散, 離子植入, 黃光與蝕刻, 薄膜與研磨, 潔淨室與化學品分配系統, 時間管理, 現場管理與溝通技巧, 怎樣使工作順利進展, 品質稽核系統, 人力訓練與激勵。	Syllabus	The topics of this course include: introduction of basic IC process flow, semiconductor process materials and chemicals, device technology, oxidatoin and diffusion, ion implantation, photolithography and etching, thin-film and polish, clean room and chemical dispense system, time management, field management and communication, how to make things successfully, quality auditing system, and manpower training and encouragement.

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