朝陽科技大學 097學年度第2學期教學大綱
Biochip 生物晶片

當期課號	7447	Course Number	7447
授課教師	林坤緯	Instructor	LIN,KUN WEI
中文課名	生物晶片	Course Name	Biochip
開課單位	資訊工程系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程目的在於介紹當前生物晶片中一些重要課題的研究發展現況，進而探討生物晶片在目前生物醫學上的研究與應用及其商品化過程與未來的市場。	Objectives	This course introduces current research topics in the biochip, and then to demand the biochip's research and commercialized course and future market on biomedicine.
教材	1. Microarray Biochip Technology. Schena M and Schena M (eds). Publisher: Eaton Pub Co; 1st edition (April 15, 2000). ISBN: 1881299376. 2. Fundamentals of Microfabrication: The Science of Miniaturization, 2nd Edition. Madou MJ. Publisher	Teaching Materials	1. Microarray Biochip Technology. Schena M and Schena M (eds). Publisher: Eaton Pub Co; 1st edition (April 15, 2000). ISBN: 1881299376. 2. Fundamentals of Microfabrication: The Science of Miniaturization, 2nd Edition. Madou MJ. Publisher
成績評量方式	1. 40% 期中/期末考 2. 20% 作業 3. 20% 期末報告/作業 4. 平時20%(出席)	Grading	1. 40% Middle/Final exam. 2. 20% Homework 3. 20% Final project 4. Learning attitute: 20%
教師網頁			
教學內容	1.生物晶片簡介 2.矽基板與玻璃基板的微製造流程 3.流體機制 4.DNA微陣列 5.蛋白質爲陣列	Syllabus	1.biochip technologies- an overview 2.microfabrication process for silicon and glas 3.fluid mechanics 4.fabrication of polymeric biochips 5.DNA microarray 6.protein microarray

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