

朝陽科技大學 092學年度第2學期教學大綱
Membrane Separation Technology 薄膜分離技術

當期課號	7165	Course Number	7165
授課教師	陳文正	Instructor	CHEN,WEN JANQ
中文課名	薄膜分離技術	Course Name	Membrane Separation Technology
開課單位	應用化學系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	使學生瞭解各類分子薄膜的結構及分離原理, 並學習到其在現代分析技術上的應用	Objectives	The object of this course is to make students understand the structure of molecular membrane and its principle of separation, then learning its applications on modern analytical technology.
教材	講授與討論	Teaching Materials	Lecture and discussion
成績評量方式	書面報告 30% 口頭報告 30% 期末考 40%	Grading	Term-paper 30% Presentation 30% Final Exam 40%
教師網頁	-		
教學內容	課程主要內容包括高分子薄膜的製備及其材質的特性，薄膜特性的探討，薄膜中的輸送現象，各種薄膜分離技術，以及模組與薄膜程序設計之介紹。	Syllabus	The objective of this course is to introduce various topics in membrane separation technology including preparation of polymeric membranes, the properties of polymer materials, characterization of membrane properties, transport phenomenon in membranes, various separation techniques based on membrane and design of membrane modules and membrane processes.

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