朝陽科技大學 097學年度第1學期教學大綱
Polymer Chemistry 高分子化學

當期課號	1821	Course Number	1821
授課教師	楊博智	Instructor	YANG,PO CHIH
中文課名	高分子化學	Course Name	Polymer Chemistry
開課單位	應用化學系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程目標使學生熟習聚合物化學的基本理論與事實，進而有系統的了解聚合物的合成、物理和化學特生及其應用與發展。	Objectives	This course introduces the basic theory of the polymer chemistry, the principle of polymer synthesis, physical and chenmical properties of various polymeric materials, and their applications and development.
教材	採用課本及講義授課	Teaching Materials	By textbook and handout
成績評量方式	期中考佔30%和期末考佔40%，出席率和期中報告佔30%	Grading	The ratio of grade is 30, 40, 40% of midterm, final examination, and presence and report.
教師網頁			
教學內容	(1) 高分子簡介 (2) 化學結構 (3) 連鎖聚合反應 (4) 逐步聚合反應 (5) 可控制型聚合反應 (6) 分子量及大小 (7) 非結晶性,結晶性和液晶高分子 (8) 共聚高分子,微結構,和立體規則性 (9) 交聯,凝膠,和橡膠彈性	Syllabus	(1) Introduction to polymer science (2) Chemical structures (3) Chain polymerization (4) Step polymerization (5) Controlled polymerization (6) Molecular weights and sizes (7) The amorphous, crystalline and liquid crystalline polymers (8) Copolymers, microstructure, and stereoregularity (9) Networks, gels, and rubber elasticity

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