朝陽科技大學 093學年度第2學期教學大綱
Experimental Applied Chemistry 應用化學實習

當期課號	1502	Course Number	1502
授課教師	錢偉鈞	Instructor	CHIEN,WEI JYUN
中文課名	應用化學實習	Course Name	Experimental Applied Chemistry
開課單位	應用化學系(四日)三A	Department	
修習別	必修	Required/Elective	Required
學分數	1	Credits	1
課程目標	基本參數之測量與應用; 光譜技術在物理化學之應用	Objectives	Measurements of basic parameters; Application of spectroscopic techniques in physical Chemistry;
教材	實驗手冊(可於教師網頁下載)	Teaching Materials	
成績評量方式	實驗報告 60% (共十份報告) 實驗參予 20% 期末評量 20%	Grading	Experimental Reports 60% (10 Experimants) Attendancy 20% Final Examination 20%
教師網頁	http://163.17.15.50/~esri/class/92/physical_chemistry_experiment/92PchemLab.htm		
教學內容	實驗一 以粘度法測定聚合物之平均分子量; 實驗二 溶解熱的測量; 實驗三 燃燒熱之測量與應用; 實驗四 二成份系液液平衡; 實驗五 酸鹼度與解離度; 實驗六 二成份系活性係數之測定; 實驗七 以滲透壓法測定聚合物之分子量; 實驗八 Carboxyfluoresceine之螢光光譜; 實驗九 丙酮溴化反應; 實驗十 碘鐘反應	Syllabus	Exp1:Determination of average molecular weight of polymer by viscosity method; Exp2:Heat of solution; Exp3:Measurement and application of heat of combustion; Exp4:Physical Equilibrium of liquid-liquid system; Exp5: Chemical equilibrium of solution; Exp6: Measurements of activity coefficient; Exp7:Application of osmometer to determine the average molecular weight of PVA; Exp8:Fluorescence Spectra of carboxyfluorescein; Exp9:Kinetic study of bromination of acetone; Exp10: Iodine clock reaction

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