# 朝陽科技大學 096學年度第2學期教學大綱
# Experimental Applied Chemistry 應用化學實習

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| 當期課號 | 1606 | Course Number | 1606 |
| 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 | Teaching Materials | Experiment brochure |
| 成績評量方式 | 實驗報告 50% (共十份報告)<br>實驗參予 20%<br>測驗評量 30% | Grading | Experimental Reports 50% (10 Experimants)<br>Attendancy 20%<br>Examination 30% |
| 教師網頁 | http://www.cyut.edu.tw/~wjchien/pchemlab/96syllabus.pdf | | |
| 教學內容 | 實驗一 以粘度法測定聚合物之平均分子量;<br>實驗二 溶解熱的測量;<br>實驗三 燃燒熱之測量與應用;<br>實驗四 二成份系液液平衡;<br>實驗五 酸鹼度與解離度;<br>實驗六 二成份系活性係數之測定;<br>實驗七 綻藍染料之紫外光譜-顏色的起源;<br>實驗八 Carboxyfluoresceine之螢光光譜;<br>實驗九 丙酮溴化反應;<br>實驗十 碘鐘反應 | Syllabus | Exp1:Determination of average molecular weight of polymer by viscosity method;<br>Exp2:Heat of solution;<br>Exp3:Measurement and application of heat of combustion;<br>Exp4:Physical Equilibrium of liquid-liquid system;<br>Exp5: Chemical equilibrium of solution;<br>Exp6: Measurements of activity coefficient;<br>Exp7:Orign of colors-UV of cyanine dye;<br>Exp8:Fluorescence Spectra of carboxyfluorescein;<br>Exp9:Kinetic study of bromination of acetone;<br>Exp10: Iodine clock reaction |

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