朝陽科技大學 097學年度第2學期教學大綱
Surface Chemistry 界面化學

當期課號	1783	Course Number	1783
授課教師	石燕鳳	Instructor	SHIH,YENG FONG
中文課名	界面化學	Course Name	Surface Chemistry
開課單位	應用化學系(四日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	概述界面活性劑之簡介、分類、特性；三種主要界面活性劑（陰離子、非離子與陽離子）之功能與製造方法；界面活性劑HLB親水基-疏水基-平衡之意義與應用；界面活性劑在酸鹼與硬水中之穩定性；乳化與反乳化之技巧與應用範圍。	Objectives	The introduction, categories and charactors of surfactants are presented. The functions and preparations of 3 major surfactants, such as anionic, nonionic and cationic surfactants, are described. Hydrophilic-lipophilic-balance is explain with the concept of hydrophile and lipophile. The stability of surfactants in terms of acid, base and water hardness are summarized. Emulsification and deemulsification techniques are described and their applications in industries are listed.
教材	自編講義	Teaching Materials	
成績評量方式	課程參與及學習態度(10%) 作業及小考 (40 %) 期中考 (25%) 期末考 (25%)	Grading	Attendance (10%) Assignments/Quizzes (40 %) Midterm exam (25%) Final exam (25%)
教師網頁			
教學內容	1.界面活性劑之簡介、分類、特性 2.三種主要界面活性劑（陰離子、非離子與 陽離子）之功能與製造方法 3.界面活性劑HLB親水基-疏水基-平衡之意義與應用 4.微胞理論 5.界面吸附 6.乳化,起泡等應用理論	Syllabus	1.The introduction, categories and charactors of surfactants 2.The functions and preparations of 3 major surfactants, such as anionic, nonionic and cationic surfactants 3.Hydrophilic-lipophilic-balance 4.Micelles 5.Adsorption at the interfaces 6.Specific applications of the theories for developing emulsions, foams

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