朝陽科技大學 095學年度第2學期教學大綱
Chemical Production Practices 化學品生產實務

當期課號	1548	Course Number	1548
授課教師	葉倍宏	Instructor	YEH,PEI HUNG
中文課名	化學品生產實務	Course Name	Chemical Production Practices
開課單位	應用化學系(四日)二A	Department	
修習別	必修	Required/Elective	Required
學分數	2	Credits	2
課程目標	本課程針對已具大學化學基礎之學生，簡介工業上各化學品之製造與操作技術，以協助同學了解化學品生產之實務技術。內容包括：流體輸送、熱交換器、蒸餾、蒸發、結晶、過濾、氣體吸收、萃取、濃縮與儀表、控制設備等，使學生對化學工廠生產設備有初步的認識與信心。	Objectives	The course is designed for the students who have the background knowledge of college chemistry. The goal of this course, from summaries presentation of the industrial manufacture and operating, is to help students understand the chemical plant. Fluid flow, heat exchanger, distilling equipment, evaporator, crystallizer, filter, gas absorber, extractor, concentrator, and instrumentation, automation devises, etc. are all covered in the lectures.
教材	採用講義及投影片授課	Teaching Materials	By handout and transparency
成績評量方式	以筆試成績爲主,出席率與平時測驗佔30%,期中考佔30%及期末考佔各40%。	Grading	Graded by the examination, the ratio is 30%, 30%, 40% of presence, middle & final examination .
教師網頁			
教學內容	1.化學工業生產概說 2.石油工業 3.天然氣工業及石油化學工業 4.高分子材料及塑膠工業 5.纖維和橡膠工業 6.電子半導體產業及光電產業 7.工業觸媒及製藥工業 8.食品工業與染料、顏料及塗料工業 9.矽酸鹽工業 10.界面活性劑清潔劑及化妝品工業 11.煤化學工業及肥料工業 12.奈米科技與工業	Syllabus	1. Overview of Chemical Production 2. Petroleum Industry 3. Natural Gas and Petroleum Industry 4. Polymeric materials and Plastic Industry 5. Fiber and Rubber Industry 6. Semiconductor Industry and TFT-LCD Technology 7. Catalytic Industry and Pharmaceutical Industry 8. Food Industry and Dye, Pigment 9. Ceramic Industry 10. Surfactant, Detergent and Cosmetic Industry 11. Coal Chemical Industry and Fertilizer Industry 12. Nanotechnology and Industry

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