

朝陽科技大學 099學年度第1學期教學大綱
Advanced Pesticide Chemistry 高等農藥化學

當期課號	7219	Course Number	7219
授課教師	周正平	Instructor	CHOU,CHEN PING
中文課名	高等農藥化學	Course Name	Advanced Pesticide Chemistry
開課單位	應用化學系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程首先簡介農藥之重要性與分類，而後詳細闡述界面活性劑在農藥上之應用。界面活性劑之原理、特性、分類、應用方法將在本課程中被詳細地探討。內容亦包括：農藥在動植物體內之分佈及新陳代謝，農藥在土壤及地面水、地下水中之移動與分佈。在應用方法上，農藥之劑型配方技術將會被簡單地介紹。最後會引述生物技術在農藥上之應用，以微生物取代化學性農藥以減少環境污染。	Objectives	For junior and senior undergraduate students, this course includes the content of introduction of pesticides, basic knowledge of surfactants, brief descriptions of herbicides, insecticides and fungicides. Pesticide formulations and biopesticides will also be discussed. Only few organic synthesis of pesticides will be mentioned. With no experiment, student will learn basic knowledge about chemical pesticides and biological pesticides.
教材	Perry, A.S.,I.Yamamoto, I.lshaaya, and R.Y.Perry. 1998. Insecticides in Agriculture and Environment. Springer. Berlin. 259pp. Ware, G. W. 1994. The Pesticide Book. 4th ed. Thomson publication. Fresno, CA 386pp.	Teaching Materials	Perry, A.S.,I.Yamamoto, I.lshaaya, and R.Y.Perry. 1998. Insecticides in Agriculture and Environment. Springer. Berlin. 259pp. Ware, G. W. 1994. The Pesticide Book. 4th ed. Thomson publication. Fresno, CA 386pp.
成績評量方式	報告及期末考	Grading	Reports and Final EXM
教師網頁			
教學內容	本課程為介紹農藥的重要性與在人類生活中所扮演之角色，而後詳細闡述農藥在農業上之應用。農藥之作用原理、特性、分類、應用方法將在本課程中被詳細地探討。其他內容亦包括：農藥在動植物體內之分佈及新陳代謝，農藥在不同作物之殘留，以及殘留分析方法的探討等，亦是本課程重要課題。在應用方法上，農藥之劑型配方技術將會被簡單地介紹。最後會引述生物農藥在防治上之應用，並以微生物製劑取代化學性農藥以減少對環境上的污染。	Syllabus	For the students of graduate school, this course includes the content of introduction of pesticides, basic knowledge of pesticides application in agriculture. The mode of action and classification of pesticides will be discuss in detail, moreover the metabolism in/on animals and plants also be discussed. Brief introduce the residues on different crops and analyze method of the pesticides residues. Finally the pesticide formulations and bio pesticides will also be discussed. With no experiment, students will learn the knowledge about the chemically and biologically of pesticides in this course.

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