朝陽科技大學 096學年度第2學期教學大綱
Plant Biotechnology and Virology 植物生技與病毒

當期課號	7250	Course Number	7250
授課教師	張清安	Instructor	CHANG,CHIN AN
中文課名	植物生技與病毒	Course Name	Plant Biotechnology and Virology
開課單位	生化科技研究所博士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程之目的乃使學生能瞭解現階段植物遺傳工程生物技術之最新研究進展、產業應用與未來發展趨勢。另外對於植物病毒研究所衍生之實用性生物技術亦將予以介紹。希望透過本課程之學習，能使學生對於各項植物及病毒相關之生物技術之理論與應用實務均能充分掌握。	Objectives	The purpose of this course is to allow students understand the most updated achievements, real-life application and future trends in the fields of plant and virus-related biotechnologies. Design of this course will lead the students step by step to comprehend both the theories and their application of current biotechnologies. The future trends for the development of biotechnologies will also be introduced in this course.
教材	教師提供教學綱要及ppt檔案	Teaching Materials	Outlines and ppt will be provided by the teacher.
成績評量方式	期中期末二次筆試，及指定讀書報告作業	Grading	Mid-term, final examination and report of reading assignment.
教師網頁	_		
教學內容	一、總論；二、病毒之演化與分類；三、病毒之構造與組成；四、病毒之基因組成與表達；五、病毒感染之機制；六、病毒傳播之機制；七、病毒基因之應用；八、病毒基因在生技產業上之應用實例	Syllabus	A.Introductionn of viruses; B.Evolution and taxonomy of viruses; C.Construction and composition of virus particle; D. Genome organization and expression of viruses; E.Infection process of viruses; F.Tansmission mechanism of viruses; G.Application of viral genome; H.Case studies of application of viral genome in biotechnology industry.

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