朝陽科技大學 093學年度第1學期教學大綱
Computer Aided Design and Manufacturing 電腦輔助設計與製造

當期課號	1320	Course Number	1320
授課教師	鄭宗明	Instructor	CHENG,TZONG MING
中文課名	電腦輔助設計與製造	Course Name	Computer Aided Design and Manufacturing
開課單位	工業工程與管理系(四日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程將教導與CAD/CAM相關之數學、計算幾何與程式設計等基礎。	Objectives	This course will provide in-depth knowledge in computational geometry, CAD/CAM programming and related topics.
教材	Principles of CAD/CAM/CAE Systems, K. Lee,（全華圖書代理）	Teaching Materials	
成績評量方式	期中考30% 期末考30% 主題報告30% 平時成績10%	Grading	Midterm 30% Final 30% Project 30% In-class Performance 10%
教師網頁			
教學內容	中部科學園區爲國內精密機械與奈米製造之重鎮。爲響應政府推動高附加價值產品之研究發展工作，特將學校資源與中部地區之產業界結合，使大學部高年級同學能具備業界所需之專業知識與見識。本課程屬「精密機械設計與製造工程師」所必備之專業領域，課程內容涵蓋幾何模型之數學模式、計算幾何與演算法、以及CAD/CAM應用軟體程式設計。修習本課程之學員將能夠利用習得之知識與技術設計出簡易之客製化電腦輔助軟體於設計或製造之用途上。	Syllabus	The science park in the Taichung area will be the research and production center of the precision machines and nano materials. It is the goal of the governmont to promote research and development in high adding-value products, and to integrate college education with local industy. Therefore, the department has offered a series of professional courses in precision machining and nano manufacturing. One of the major trends is CAD/CAM and its extensions. This cpurse will cover several geometric related topics such as computational geometry and geometric algorithms. A skill in customizing CAD/CAM utility functions wil be the purpose of the course.

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