朝陽科技大學 092學年度第1學期教學大綱
Advanced Computer Aided Design and Manufacturing 高等電腦輔助設計與製造

當期課號	7613	**Course Number**	7613
授課教師	鄭宗明	**Instructor**	CHENG,TZONG MING
中文課名	高等電腦輔助設計與製造	**Course Name**	Advanced Computer Aided Design and Manufacturing
開課單位	工業工程與管理系碩士在職專班一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	課堂教學	**Teaching Materials**	Lecturing
成績評量方式	期中考 30%; 期末考 30%; 學期計劃 40%;	**Grading**	Midterm 30%; Final 30%; Term Project 40%;
教師網頁			
教學內容	本課程主要在於訓練學員以幾何方法與電腦程式設計,製作輔助工程用途之軟體。課程內容包括2D幾何,3D幾何,實體模型,計算幾何演算法,以及電腦輔助製程規劃。所有修課學員必須於學期間自行設計且執行專題報告並於期末上台發表。	**Syllabus**	Students who attend the course will be trained with intensive computation / programming related subjects. Areas such as geometric modeling, computational geometry, geometric algorithm design, and application design are the focus. An ability of converting subjects in the physical world into their equivalent computer representations, and solving real world problems by computer arithmetical and / or logical iterations will be the main purpose of the training.