朝陽科技大學 096學年度第2學期教學大綱 Introduction to digitalization of product design 數位化產品設計導論

當期課號	7458	Course Number	7458
授課教師	黄台生	Instructor	HUANG,TAI SHEN
中文課名	數位化產品設計導論	Course Name	Introduction to digitalization of product design
開課單位	數位化產品設計產業研發碩士專班 (碩春)—A	Department	
修習別	必修	Required/Elective	Required
學分數	1	Credits	1
課程目標	本課程第一部分介紹產品研發流程中從設計分析製造到測試所軟體包的括字對測試所軟體包的括字對數位的指數學等支援產品研發的工具。第二部分針對數位設計,將其透過的數學等技術,如的介紹內,與學生開發,如的人與一次,與一次,與一次,與一次,與一次,與一次,與一次,與一次,與一次,與一次,	Objectives	This course introduces initial competency in product design by conceiving, designing, manufacturing and testing a product component such as a structural part. Contents include CAD modeling, CAE analysis, and virtual product development process. The focus is on the design process itself as well as the complementary roles of human creativity and computational methods and tools. The purpose of this course is introduction of the digital design, reverse engineering, and rapid prototyping in creating a new product. The course is intended to provide student with the following benefits: Competence with a set of tools and methods for product digital design and development. Confidence in your own abilities to create a new product.
教材	上課講義	Teaching Materials	handouts
成績評量方式	期中考30% 期末考40% 期末專案30%	Grading	Midterm Exam 30% Final Exam 40% Final Project 30%
教師網頁	https://www.cyut.edu.tw/~hcchen		
教學內容	介紹虛擬技術輔助產品研發,包括設計/分析/製造/逆向量測等IT技術之運用.成型理論與快速金屬雛型系統介紹與應用以及專利的介紹與寫法。	Syllabus	This course foucuses on the introduction of IT technologies to conduct virtual product development. The Integrating CAD/CAE/CAM/CAI technologies and tool will be reviewed in this course. And how to write the pattern.

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