朝陽科技大學 098學年度第2學期教學大綱
Advanced Innovation and R&D 高等創造力與研發工程

當期課號	7504	Course Number	7504
授課教師	林均燁	Instructor	LIN,JIUN YEH
中文課名	高等創造力與研發工程	Course Name	Advanced Innovation and R&D
開課單位	木工機器產業研發碩士專班(碩春)一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標		Objectives	
教材	1. Ulrich and Eppinger, Product Design and Development, 3/e, McGraw Hill. 2. Otto and Wood, Product Design, Prentice Hall. 3. 講義。	Teaching Materials	1. Ulrich and Eppinger, Product Design and Development, 3/e, McGraw Hill. 2. Otto and Wood, Product Design, Prentice Hall. 3. Class handouts.
成績評量方式	期中考30%、期中報告30%、期末報告40%。	Grading	Initial term project report 30%, Final term project report 40%, Midterm 30%.
教師網頁	http://www.cyut.edu.tw/~jlin/		
教學內容	產品設計與開發簡介，傳統研發流程與電腦輔助研發流程，專案管理方法與工具，產品開發流程與組織架構，客戶需求確認方法，產品規格訂定，概念產生方法，概念選擇方法，製造與組裝設計法則，其他產品優化設計法則。	Syllabus	Introduction to product design and development, traditional and computerized R&D process, R&D Project management, process and organization, customer need identification, specification definition, concept generation, concept selection, TRIZ, design for manufacturing and assembly, design for excellence.

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