

朝陽科技大學 099學年度第1學期教學大綱
Integrated Product Design and Development 整合性產品設計與開發

當期課號	7506	Course Number	7506
授課教師	李朝金	Instructor	LEE,CHAO CHIN
中文課名	整合性產品設計與開發	Course Name	Integrated Product Design and Development
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	Ulrich, Eppinger, Product Design and Development, 2000. Kalpakjian, Manufacturing Engineering and Technology, 2001.	Teaching Materials	Ulrich, Eppinger, Product Design and Development, 2000. Kalpakjian, Manufacturing Engineering and Technology, 2004.
成績評量方式	平時分數 ---40% 期末報告 ---60%	Grading	Final Project Report & Presentation ---60% Class Interactions ---40%
教師網頁	-		
教學內容	<p><課程目標> 本課程之目的在使學生了解產業界在新產品研發的實務工作上，必須整合行銷、設計研發，與製造等部門之運作模式；以及新產品研各階段相關之專業知識和相關之概念等。</p> <p><課程內容> 1.新產品研發的流程架構。 2.新產品研發的組織架構與分工。 3.新產品研發團隊的各重要構成部門及其角色。 4.新產品研發流程中所涉及的各项管控技術與知識。 5.新產品研發過程中各部門間相互配合的觀念與方法。</p>	Syllabus	<p><Objectives> The focus of this course is the concepts, ways of integration of the marketing, design, and manufacturing functions of firms in creating a new product, and knowledge required in each steps along the process of product development.</p> <p><Syllabus> The focus of this course is integration of the marketing, design, and manufacturing functions of the firm in creating a new product. The course is intended to provide student with awareness of the role of multiple functions in creating a new product (e.g. marketing, finance, industrial design, engineering, production). For the manufacturing functions, it emphasizes four modern manufacturing areas: manufacturing processes, equipment/control. systems, and design for manufacturing, and it exposes you to integration of engineering and management disciplines for determining manufacturing rate, cost, quality and flexibility. Topics include process physics, equipment design and automation/control, quality, design for manufacturing, industrial management, and systems design and operation.</p>

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