# 朝陽科技大學 095學年度第2學期教學大綱
# Integrated Product Design and Development 整合性產品設計與開發

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| 當期課號 | 7736 | Course Number | 7736 |
| 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 | 設計研究所碩士在職專班一A | Department | |
| 修習別 | 選修 | Required/Elective | Elective |
| 學分數 | 3 | Credits | 3 |
| 課程目標 | | Objectives | |
| 教材 | Ulrich, Eppinger, Product Design and Development, 2000.<br>Kalpakjian, Manufacturing Engineering and Technology, 2001. | Teaching Materials | Ulrich, Eppinger, Product Design and Development, 2000.<br>Kalpakjian, Manufacturing Engineering and Technology, 2004. |
| 成績評量方式 | 平時分數 ---40%<br><br>期末報告 ---60% | Grading | Final Project Report & Presentation ---60%<br>Class Interactions ---40% |
| 教師網頁 | | | |
| 教學內容 | <課程目標><br>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。<br><br><課程內容><br>1.新產品研發的流程架構。<br>2.新新產品研發的組織架構與分工。<br>3.新產品研發團隊的各重要構成部門及其角色。<br>4.新產品研發流程中所涉及的各項管控技術與知識。<br>5.新產品研發過程中各部門間相互配合的觀念與方法。 | Syllabus | <Objectives><br>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.<br><br><Syllabus><br>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 emphases 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. |

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