朝陽科技大學 096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	7291	Course Number	7291
授課教師	黃台生	Instructor	HUANG,TAI SHEN
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	Teaching and Practice	Teaching Materials	Teaching and Practice
成績評量方式	Final Project Presentation and demonstration. Final Examination.	Grading	Final Project Presentation and demonstration. Final Examination.
教師網頁			
教學內容	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.	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 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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