

朝陽科技大學 094學年度第1學期教學大綱
Senior Project 專題設計

當期課號	3445	Course Number	3445
授課教師	劉子珩	Instructor	LIU,TZU HENG
中文課名	專題設計	Course Name	Senior Project
開課單位	工業設計系(四進)五A	Department	
修習別	必修	Required/Elective	Required
學分數	4	Credits	4
課程目標	專題設計課程之目的在於培養學生具備完整之產品設計能力. 從產品企劃, 產品設計, 至產品製造等能力.	Objectives	The goal of this course is to develop students' ability about Product Planning and Product Design
教材	自編教材	Teaching Materials	
成績評量方式	每次發表佔學期總成績20%	Grading	Every presentation equals 20% of final score.
教師網頁	-		
教學內容	<p>第一次發表</p> <ol style="list-style-type: none"> 1. 概念說明(必) 2. 問題解決的內容及方法(必) 3. 市場調查(選) 4. 機會規範(選) <p>第二次發表</p> <ol style="list-style-type: none"> 1. 產品企劃(選) 2. 產品分析-環境、使用者、產品(選) 3. 蒐集與分析方法及程序(必) 4. 決策方法及程序(必) 5. 設計規範(必) 6. Image board(選) 7. 階段設計研究報告(必) <p>第三次發表</p> <ol style="list-style-type: none"> 1. 設計構想草圖(Sketch)(必) 2. 材料分析(必) 3. 設計工學探討(必) 4. 人因設計探討(必) 5. 簡易概念草模(功能性)(必) 6. 概念草模(外觀)(選) 7. 階段設計研究報告(必) <p>第四次發表</p> <ol style="list-style-type: none"> 1. 明確的人機界面及操作流程(必) 2. 明顯的機構配置與結構設計(必) 3. 人因實驗分析(必) 4. 電腦 Working Model 模擬(選) 5. 簡易概念草模(功能性)(必) 6. 概念草模(外觀)(選) 7. 階段設計研究報告(必) <p>第五次發表</p> <ol style="list-style-type: none"> 1. 定案外觀草模或功能模型(選) 2. 電腦3D模型(零件)(必) 3. 工程圖面(必) 4. 階段設計研究報告(必) 	Syllabus	<p>First Presentation</p> <ol style="list-style-type: none"> 1. Concepts(Required) 2. problem solving method(Required) 3. Marketing research(Elective) 4. Opportunity reference(Elective) <p>Second Presentation</p> <ol style="list-style-type: none"> 1. Product planning(Required) 2. Product analysis - environment, user, product(Elective) 3. Information collection method and procedure(Required) 4. Decision strategy and procedure(Required) 5. Design duidelines(Required) 6. Image board(Elective) 7. Stage report(Required) <p>Third Presentation</p> <ol style="list-style-type: none"> 1. Sketches(Required) 2. Material study(Required) 3. Engineering study(Required) 4. Human Factorsstudy(Required) 5. Concept mock-up(functional)(Required) 6. Concept mock-up(appearance)(Elective) 7. Stage report(Required) <p>Fourth Presentation</p> <ol style="list-style-type: none"> 1. Human factors interface and operation process(required) 2. Mechanism layout and structure(required) 3. Human factors experiment(required) 4. Working Model(computer) simulation(elective) 5. Concept mock-up(functional)(Required) 6. Concept mock-up(appearance)(Elective) 7. Stage report(Required) <p>Fifth Presentation</p> <ol style="list-style-type: none"> 1. final appearance or unctional mock-up(Elective) 2. Computer 3D model(Required) 3. Engineering Drawing(Required) 4. Stage report(Required)

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