朝陽科技大學 095學年度第1學期教學大綱
Senior Project 專題設計

當期課號	3482	**Course Number**	3482
授課教師	林運徵	**Instructor**	LIN,YUN CHEN
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	設計、市場與技術之相關資料及圖書等	**Teaching Materials**	Related design, market and technological information as well as publications
成績評量方式	每次發表佔學期總成績20%	**Grading**	Every presentation counts for 20% of final score.
教師網頁	http://www.kimcklee.idv.tw		
	[課程目標] 本課程之目的在於檢驗學生是否具備完整執行產品設計專案之能力。 學生必須充分表現出從產品企劃、設計展開、及至最終結案移交量產之所有各種能力。 ========== [教學內容] 第一次發表 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) 第二次發表 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)		[Objectives] This course is aimed at conducting a final check for students' ability in completinging a comprehensive product design project. Students are required to exhibit various abilities from product planning to design development, finalize, and to transfer the design results to mass production preparations. ========== [Syllabus] First Presentation 1. Concepts(Required) 2. problem solving method(Required) 3. Marketing research(Elective) 4. Opportunity reference(Elective) Second Presentation 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)

教學內容	第三次發表 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) 第四次發表 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) 第五次發表 1. 定案外觀草模或功能模型(選) 2. 電腦3D模型(分件)(必) 3. 工程圖面(必) 4. 階段設計研究報告(必)	**Syllabus**	6. Image board(Elective) 7. Stage report(Required) Third Presentation 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) Fourth Presentation 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) Fifth Presentation 1. final appearance or unctional mock-up(Elective) 2. Computer 3D model(Required) 3. Engineering Drawing(Required) 4. Stage report(Required)