朝陽科技大學 097學年度第1學期教學大綱
Applied Mechanics 應用力學

當期課號	1990	Course Number	1990
授課教師	廖昭昌	Instructor	Liao,Chao Chang
中文課名	應用力學	Course Name	Applied Mechanics
開課單位	工業設計系(四日)二A	Department	
修習別	選修	Required/Elective	Elective
學分數	2	Credits	2
課程目標	產品設計的機構與力學觀念	Objectives	structure and mechanism concept in product design
教材	老師自編、並鼓勵學生廣泛閱讀	Teaching Materials	Teacher from arranges, and encourages the student widely to read
成績評量方式	學科成績：全班分四組，每一組透過團隊學習方式，閱讀相關知識，並共同找尋應用案例，發表並完成報告，全組成績佔30%。 術科成績：設計一件玩具，分析並運用力學之報告發表。佔50%。 平時成績：上課點名及參與程度。20%。	Grading	Discipline result: The entire class is divided four groups, each group penetrates the team to study the way, the reading correlation knowledge, and pursues the application case together, publishes and completes the report, the entire group result accounts for 30%. Technique branch result: Designs a toy, report publication the analysis and of the utilization mechanics. Accounts for 50%. Usually result: Attends class mentions by name and participates in the degree. 20%.
教師網頁	http://tw.myblog.yahoo.com/ndsc8888		
教學內容	讓學生了解力學的基本原理與應用，使學生有系統的吸收應用力學的基礎觀念，並引導學生在設計上符合力學原理之創作。分四個主要單元，每單元三週，第一周指導力學原理閱讀，第二週學生收集運用案例，第三週學生創作演練。四個單元如下：第一單元力的平衡、第二單元力的摩擦、第三單元直線運動、第四單元平面運動。	Syllabus	Introducing the basic principles of the mechanics and let the students know how to apply the basic knowledgement of the mechanics to design a product. The program will be seperated to four main unit. Each unit will be lasted for three weeks. First week, The Instructor will guide the students reading some related materials. At second week, The students have to collect some application case, and the third week, the students start to practice to design something through the princles. The four units are the balance of force, the friction of force, linear movement and plane movement.

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