朝陽科技大學 092學年度第1學期教學大綱
Fundamental Concepts of Computer-Aided Engineering (CAE)_Syllabus 電腦輔助工程概論

當期課號	1359	Course Number	1359
授課教師	林均燁	Instructor	LIN,JIUN YEH
中文課名	電腦輔助工程概論	Course Name	Fundamental Concepts of Computer-Aided Engineering (CAE)_Syllabus
開課單位	工業工程與管理系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	課程的目的在於介紹電腦輔助研發工具裡最爲重要的工具之一；電腦輔助工程(CAE)。課程中將涵蓋基礎理論、實務應用以及實作練習。課程中也將涵蓋兩個應用最爲廣泛的CAE工具：有限元素分析(FEA)、以及機械系統模擬(MSS)。	Objectives	Class intend to introduce one of the most important computer-aided research and development tools; computer-aided engineering; to the students. Lectures will combine theories and practical examples as well as workshops. Class will contain two of the most popular CAE tools, Finite Element Analysis and Mechanical System Simulation.
教材	本課程除了將配合一些電腦軟體實作之外，另外包含一個學期報告。每位修習本課程之學員皆須以分組方式完成此計畫報告，分組方式則由學員與老師討論後決定。專題製作規定如附件。學員需於開學後兩週內決定分組名單並交予授課老師。各組於期中考前一週必須主動告知授課老師其專案的進度，以期於期末考前順利完成學期報告。	Teaching Materials	Class will include a term project and some practical workshops to help students understanding the importance of CAE in industries.
成績評量方式	平常分數15%, 學期計畫25%, 期中考30%, 期末考30%	Grading	Overall presentation 15%, Term project 25%, Midterm 30%, Final exam 30%
教師網頁			
教學內容	針對當前產業界進行電腦輔助研發與管理工作上的重點技術電腦輔助工程以基礎理論加上實務探討與案例實做的方式來進行相關主題的教學。課程內容將以電腦輔助工程裡的重點技術有限元素分析以及機械系統模擬爲主，進而延伸至其他相關的主題。	Syllabus	Class intend to introduce one of the most important computer-aided research and development tools; computer-aided engineering; to the students. Lectures will combine theories and practical examples as well as workshops. Class will contain two of the most popular CAE tools, Finite Element Analysis and Mechanical System Simulation.

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