朝陽科技大學 095學年度第2學期教學大綱
Structural Reliability 結構可靠度

當期課號	7135	Course Number	7135
授課教師	王淑娟	Instructor	WANG,SHU CHUAN
中文課名	結構可靠度	Course Name	Structural Reliability
開課單位	營建工程系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	工程設計或決策不可避免地須在不確定性存在下作判斷，因此在學習工程分析時，應能估計至這些不確定性之影響，即系統可靠度之計算。本課程主要內容包括介紹各類可靠度之計算方法，其內容將涵蓋理論分析法、近似解法及數值模擬法。	Objectives	Uncertainties are unavoidable in the design and planning of engineering systems. Properly, therefore, the tools of engineering analysis should include methods and concepts for evaluating the significance of uncertainty on system performance and design, i.e., reliability analysis. This course covers various numerical methods for reliability , including analytical approach, approximate approach and simulation method.
教材	"Probability Concepts in Engineering Planning and Design, Vol. Ⅱ, Decision, Risk, and Reliability" by A. H-S. Ang	Teaching Materials	
成績評量方式	期中考 30% 期末考 30% 作業及小考 40%	Grading	mid-term exam.:30% final exam.:30% Homework and quiz:40%
教師網頁			
教學內容	本課程旨在介紹各類可靠度之計算方法，其內容將涵蓋理論分析法、近似解法及數值模擬法。此外，並將比較各類方法之優缺點及其適用性。	Syllabus	It provides students with knowledge of computatioanl methods for structural reliability, including analytical method, approximate method and simulation method.

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