

朝陽科技大學 096學年度第2學期教學大綱  
Reliability Analysis 可靠度分析

當期課號	7163	Course Number	7163
授課教師	陳銘正	Instructor	CHEN,MING CHIH
中文課名	可靠度分析	Course Name	Reliability Analysis
開課單位	工業工程與管理系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	如何分析系統可靠度，包含不同的組件失敗率函數；組合的子系統失敗率探討、整體系統期望壽命之探討，本課程著重以數理基礎來探討系統可靠度、可靠度規格之要求及設計。	Objectives	The course covers the theoretical development and application for reliability. Selected topics include hazard functions, system reliability estimation for parallel or series systems or more complex system, estimation of parameters of failure time distribution, models for accelerated life testing, warranty and preventive maintenance models.
教材	An Introduction to Reliability and Maintainability Engineering, Charles E. Ebeling, MacGraw-Hill International Editions	Teaching Materials	An Introduction to Reliability and Maintainability Engineering, Charles E. Ebeling, MacGraw-Hill International Editions
成績評量方式	期中考 30%, 期末考 30%, 課堂小考 30% 與作業 40%	Grading	Mid term 30% Final exam 30% Quiz and Homework 40%
教師網頁	<a href="http://www.cyut.edu.tw/~mchen/">http://www.cyut.edu.tw/~mchen/</a>		
教學內容	本課程之目的在於引導研究所同學對可靠度有基本認識，內容包括系統可靠度之分析與各項可靠度試驗之介紹。	Syllabus	This is an introductory course on reliability and maintainability engineering.

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