

98 學年第 2 學期 專案風險與工程保險 Project Risk Management and
Construction Insurance 課程綱要

課程名稱：（中文）專案風險與工程保險		開課單位	工程專				
（英文）Project Risk Management and Construction Insurance		永久課號	ICM5426				
授課教師：曾仁杰							
學分數	3	必/選修	選修	開課年級	*		
先修科目或先備能力： None							
課程概述與目標： Provide the training in decision theories and analytical skills under risk situations for building and civil construction projects. Students are expected to learn how to systematically identify, analyze, and respond the risks of projects of their interests.							
教科書（請註明書名、作者、出版社、出版年等資訊）	<p>Clemen, Robert. T. (1996). Making Hard Decisions, Second Edition, Duxbury Press, Wadsworth Publishing Company, CA, USA.（雙葉書局，TEL: 02-3684198）(Required Textbook)</p> <p>Benjamin, Jack R. and Cornell, C. Allin (1970). Probability, Statistics, and Decision for Civil Engineers. McGraw-Hill Book Company. USA. (Optional)</p> <p>Raftery, John (1994). Risk Analysis in Project Management. E & FN SPON, Chapman & Hall Inc., New York, NY, USA.</p>						
課程大綱			分配時數				備註
單元主題	內容 綱要	講 授	示 範	習 作	其 他		
1. Introduction to types of risks, analytical tools commonly used in the building and civil construction industries.							
2. Decision elements (6 hrs)							
3. Decision analytical tools (i.e., present value analysis, influence diagrams, and decision trees)							
4. Sensitivity analysis							
5. Basic probability theories and statistics distributions							
6. Value of information							

7. Utility theory									
8. Monte Carlo simulation / Cyclone simulation									
教學要點概述：									
1.學期作業、考試、評量 學期作業、考試、評量 作業部份：3 Homeworks, 1 Project 考試部份：1 Midterm Exam, 1 Final Exam 評量部份：Homeworks, Project, Exams, and Class participation									
2.教學方法及教學相關配合事項(如助教、網站或圖書及資料庫等) Teaching assistant is available									
師生晤 談	排定時間			地點			連絡方式		
	Tue:			Engineering Building II			0916-005996		
每週進度表									
週次		上課日期			課程進度、內容、主題				

※ 請同學遵守智慧財產權觀念及勿使用非法影印教科書。

備註：

1. 其他欄包含參訪、專題演講等活動。
2. 請同學遵守智慧財產權觀念及勿使用非法影印教科書。

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