朝陽科技大學 097學年度第2學期教學大綱
Disaster Prevention 建築防災

當期課號	7725	Course Number	7725
授課教師	包匡	Instructor	
中文課名	建築防災	Course Name	Disaster Prevention
開課單位	建築及都市設計研究所碩士在職專班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	1. 使同學瞭解各種災害對建築物造成破壞之程度及影響 2. 對既成建築物之弱點如何改善及受損後之如何修復與補強 3. 於建築設計時如何增進其對地震力、火災、施工減低傷害度 4. 工程施作如何降低各種災害發生及事後之補救	Objectives	1. Let student understand disasters cause buildings and architectural elements damage in different ways. 2. How to reinforce the weak point and strengthen the damaged parts of the buildings after disaster occurred. 3. Build up concept or criteria in archi
教材	於每次課程提供講義及該階段之參考書目及文章	Teaching Materials	Providing handout and reference articles in each class.
成績評量方式	平時成績:45% (依出席10%,隨堂測驗5%及防災相關文章閱讀心得報告2次共30%) 期中考成績:25%(期中防災相關報告)，期末考成績:30%(期末防災相關報告)	Grading	Quiz and Presence: 15%, Assignment report (2 times): 30%, Midterm report examination: 25%, Final report examination: 30%
教師網頁	_		
教學內容	有關1.災害之特性: 種類,定義,形成,地區,案例 (地震、火災、土石流及施工問題)2.災害對建築物及建築元素之破壞 3.建築物及建築元素受損後之修復與補強 4.建築物及建築元素之抗震目標 5. 耐震設計之應用 6. 建築物在防火上之措施 7.避難逃生之規劃設計 8.工程災害防治 9.結論與建議	Syllabus	1.General concept of different disasters： Definition, Formation, Occurred areas, and Causes.(Earthquake, Fire , Debris flow, Construction failure) 2.Different levels of damages of buildings and structures: Descriptions about wood, brick, concrete, and steel constructions. Different levels of damages of architectural elements. 3.Repair and strengthening of damaged buildings and architectural elements 4.Performance based seismic design concept of buildings and architectural elements. Multi-level purpose requirements, damage control 5.Seismic design application in buildings and elements 6.Fire protection in buildings and Evacuation planning

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