

朝陽科技大學 091學年度第2學期教學大綱  
Introduction to Earthquake Eng. 地震工程概論

當期課號	6018	Course Number	6018
授課教師	張子修	Instructor	CHANG,TZYY SHIOU
中文課名	地震工程概論	Course Name	Introduction to Earthquake Eng.
開課單位	營建工程系(二進)五A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	"提供營建工程領域之高年級學生瞭解地震的成因及其對建築物及土工結構物損害後果，並從設計規範上探討耐震設計的基本原理，以作為營建工程專業上之應用以及區域地震防災救災之依據。使學生能夠瞭解 a. 地震成因及後果。 b. 地震對上部結構及基礎之影響。 c. 大地地震工程。 d. 結構物耐震設計。 e. 地震防災評估與防治。"	Objectives	The objective of this course is to make the students understand how does earthquake happen, what kinds of damage can be done by an earthquake and the concepts of earthquake resistance design by the regulations of building codes. Topics covered in this course include: introduction to the origin of earthquakes; influences of earthquake on structures and foundations; geotechnical aspects of earthquake engineering; earthquake resistance design of structures; evaluation and prevention of damages caused by an earthquake.
教材	課堂講授及作業練習	Teaching Materials	1.Lectures. 2.Assignment
成績評量方式	作業及出席率20% 小考及報告20% 期中考30% 期末考30%	Grading	Homework & Attendance 20% Quiz 20% Mid-term 30% Final Exam 30%
教師網頁	-		
教學內容	一、地震成因及後果 二、地震對上部結構及基礎之影響 三、大地地震工程 四、結構物耐震設計 五、地震災害評估與防治	Syllabus	一、 Geology, geophysics and Seismology 二、 Seismic waves 三、 Structural Earthquake Engineering 四、 Geotechnical Earthquake Engineering 五、 Earthquake Hazard Mitigation

尊重智慧財產權，請勿非法影印。