

朝陽科技大學 092學年度第1學期教學大綱
Structural Dynamics 結構動力

當期課號	7018	Course Number	7018
授課教師	余志鵬	Instructor	YU, CHIH PENG
中文課名	結構動力	Course Name	Structural Dynamics
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	本課程介紹結構動力學基本概念，課程內容包括：(1)單自由度系統、多自由度系統及連續系統之動力平衡方程式建立、(2)自然振盪及(3)動力反應解法、(4)地震反應譜及設計譜應用原理、(5)結構動力分析之數值方法等。	Objectives	The contents of this graduate course cover fundamental topics of Structural Dynamics. It includes first the establishment of equation of motions of single degree of freedom of system, multi degree of freedom of system, and continuous system, and then the corresponding solutions to these systems, and the applications of such theories to the seismic response and design spectra. as well .
教材	課堂授課	Teaching Materials	Notes and class discussions
成績評量方式	作業(約6-8次) 25% 小考及報告 25% 期中考 20% 期末考 30%	Grading	Homework(6-8) 25% Quizzes and report 25% Midterm 20% Final 30%
教師網頁	-		
教學內容	教導學生對結構動力分析的方法及基本原理有通盤的瞭解。	Syllabus	It covers the INTRODUCTION TO 1. DYNAMIC SYSTEMS : Discrete & Continuous systems 2. RESPONSES : Free vibration and Dynamic responses of systems 3. SOLUTIONS : Closed form solutions and numerical solutions 4. FUNDAMENTAL OF EARTHQUAKE ENGINEERING : Response spectra

尊重智慧財產權，請勿非法影印。