朝陽科技大學 092學年度第2學期教學大綱
Structural Analysis(II) 結構學(二)

當期課號	1035	Course Number	1035
授課教師	王淑娟	Instructor	WANG,SHU CHUAN
中文課名	結構學(二)	Course Name	Structural Analysis(II)
開課單位	營建工程系(四日)二B	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	本課程在探討結構分析理論，根據靜定或靜不定結構體所受之外力，計算其結構物之支承反力、桿件所受之內力與結構之變位。內容包含以最小功法、撓角變位法與彎矩分配法等方法分析靜不定結構，另靜不定結構之影響線亦爲探討之範圍。	Objectives	Analysis for member forces and deflections of statically determinate and indeterminate structures, including trusses, beams, and frames. Analysis of statically indeterminate beams, trusses, and rigid frames by the method of least work. Analysis of Statically Indeterminate beams and rigid frames by the slope-deflection method. Analysis of statically indeterminate beams and rigid frames by the moment distribution method. Influence lines of statically indeterminate structures.
教材	課堂授課及作業	Teaching Materials	notes and homeworks
成績評量方式	期中考 20% 期末考 20% 作業及小考 50% 平時成績 10%	Grading	mid-term exams.: 20% final exam: 20% homework and quiz:50% Learning altitude:10%
教師網頁			
教學內容	本課程在介紹靜不定結構系統分析方法。內容包括根據結構系統所受之外力，計算其支承反力、桿件內力及對應之變形等。	Syllabus	It provides students with knowledge of Statically indeterminate structural systems and their associated structural analysis methods for computing support reactions, member forces and the corresponding deflections

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