朝陽科技大學 095學年度第2學期教學大綱
Theory of Structures 結構學

當期課號	3354	Course Number	3354
授課教師	金文森	Instructor	KING,WON SUN
中文課名	結構學	Course Name	Theory of Structures
開課單位	營建工程系(二進)三A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	本課程在介紹結構系統之基本概念及一般結構分析之計算方法。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。	Objectives	This course covers the concepts of structural systems and basic structural analysis methods. Specific topics included are analysis of members forces and deflections of determinate and indeterminate structures(including trusses, beams and frames), influen
教材	Hibbeler,林益彰譯,結構分析,高立圖書公司,1994	Teaching Materials	
成績評量方式	學習態度(10%)、期中考(30%)、期末考(30%)、專題報告(30%)	Grading	Learning Attitudes(10%), Mid-Term Exam(30%), Final Exam(30%), Report(30%)
教師網頁			
教學內容	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。內容包含結構之穩定、靜定樑、桁架、鋼架與合成結構之分析、 結構之影響線與彈性變形、諧合變位法分析靜不定結構等。	Syllabus	Analysis for member forces and deflections of statically determinate and indeterminate structures, including trusses, beams, and frames. Classification of structural design, equation of equilibrium. Stability and determinacy of structures. Analysis of statically determinate beams and trusses. Analysis of statically determinate rigid frames and composite structures. Influence lines of statically determinate structures. Development and use of theorems of moment area method, conjugate beam method, method of virtual work. Analysis of statically indeterminate beams, trusses, and rigid frames by the method of consistent deformations.

尊重智慧財產權，請勿非法影印。