# 朝陽科技大學 091學年度第2學期教學大綱
# Structural Analysis(II) 結構學(二)

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| **當期課號** | 1053 | **Course Number** | 1053 |
| **授課教師** | 潘吉齡 | **Instructor** | PAN,CHI LING |
| **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** | 教學以教材爲主，輔以適當之參考資料，並適時給予學生作業，並於適當時期舉行小考 | **Teaching Materials** | Text material: lecture note, text book and handout in class<br>The homework will be assigned to the students during the class and quiz and examination will be conducted to evaluate the student's study. |
| **成績評量方式** | Midterm Examination (期中考) ─ 30%<br>Final Examination (期末考) ─ 30%<br>Quiz (小考) and Assignment (作業) ─ 40% (彈性調整) | **Grading** | Midterm Examination (期中考) ─ 30%<br>Final Examination (期末考) ─ 30%<br>Quiz (小考) and Assignment (作業) ─ 40% (彈性調整) |
| **教師網頁** | | | |
| **教學內容** | 本課程在探討結構分析，根據結構體所受之外力，計算其結構物之支承反力及桿件所受之力，並介紹各種如何求出變位的方法，在傳統結構分析方法做一詳細之講解。 | **Syllabus** | This course is concentrated on the study of structural analysis. The reactions of supports and the forces of members can be calculated according to the structure subjected to the external loads. In addition, the defomations or displacements of the structure under loading conditions will be also introduced in this course. |

尊重智慧財產權，請勿非法影印。