# 朝陽科技大學 096學年度第2學期教學大綱
# Grey System and Applications 灰色系統與應用

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| 當期課號 | 7411 | Course Number | 7411 |
| 授課教師 | 謝政勳 | Instructor | HSIEH,CHENG HSIUNG |
| 中文課名 | 灰色系統與應用 | Course Name | Grey System and Applications |
| 開課單位 | 資訊工程系碩士班一A | Department | |
| 修習別 | 選修 | Required/Elective | Elective |
| 學分數 | 3 | Credits | 3 |
| 課程目標 | 本課程是在探討灰色理論中二個重要分支：灰色模型GM與灰關聯分析GRA。並將GM與GRA應用在數位信號處理及其他領域。 | Objectives | Two main branches in the grey theory are first introduced in this course: grey models (GM) and grey relational analysis (GRA). Then GM and GRA are applied in digital signal processing and other fields. |
| 教材 | | Teaching Materials | |
| 成績評量方式 | 小考及作業40%, 期中考30%, 期末考30% | Grading | Test and home work 40%, Midterm exam. 30%, Final exam. 30% |
| 教師網頁 | | | |
| 教學內容 | 1. 簡介<br>2. 灰資料生成運算<br>3. 灰預測模型GM(1,1)<br>4. 高階灰預測模型GM(H,N)<br>5. 灰關聯度<br>6. 灰關聯度分析<br>7. 灰預測應用<br>8. 灰關聯度分析應用 | Syllabus | 1. Introduction<br>2. Grey Data Generating Operations<br>3. Grey Prediction Model: GM(1,1)<br>4. High-Order Prediction Model: GM(H,N)<br>5. Grey Relational Grade<br>6. Grey Relational Analysis<br>7. Applications of Grey Predictions<br>8. Applications of Grey Relational Analysis |

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