# 朝陽科技大學 093學年度第1學期教學大綱
# Principles of Engineering Design 設計工學

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| **當期課號** | 1154 | **Course Number** | 1154 |
| **授課教師** | 邱相文 | **Instructor** | |
| **中文課名** | 設計工學 | **Course Name** | Principles of Engineering Design |
| **開課單位** | 工業設計系(四日)三A | **Department** | |
| **修習別** | 必修 | **Required/Elective** | Required |
| **學分數** | 3 | **Credits** | 3 |
| **課程目標** | 基本工程力學與機構學之介紹，利用電腦軟體進行機構設計與材料應力之模擬設計，增進產品開發之結構強度與穩定性。 | **Objectives** | To introduce the concept of the engineering mechanics and mechanism, using software to study the mechanism design simulation and computer assisted design. Enhance the capability of the structure strength and stability in product design. |
| **教材** | 自編講義與視聽教材/Slider and Working Model 2D | **Teaching Materials** | |
| **成績評量方式** | 期中報告30%　期末作品評定考核40%<br>平時考核30% | **Grading** | Mid-term examination 30%, Final examiniation 40%,<br>performance and attitude 30% |
| **教師網頁** | | | |
| **教學內容** | 一、機構學與基本工程力學概念之介紹。<br>二、Working Model 2D軟體機構設計之電腦模擬與輔助<br>設計講授。<br>三、產品結構與電器產品之專題研究。<br>四、瓦楞紙椅之設計與製作。 | **Syllabus** | 1. Introduction the concept of the mechanism & engineering mechanics.<br>2. Using Working Model software to study the mechanism design simulation and computer assisted design.<br>3. The product structure and electrical appliance monographic study.<br>4. To design and manufacture of the corrugated paper chair. |

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