朝陽科技大學 094學年度第2學期教學大綱
System Engineering and Management 系統工程與管理

當期課號	3231	Course Number	3231
授課教師	李宗璜	Instructor	LEE,CHUNG HUANG
中文課名	系統工程與管理	Course Name	System Engineering and Management
開課單位	工業工程與管理系(二進)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	現代系統工程與管理之實務運用已成爲企業競爭力提昇之推動力;本課程旨在介紹系統工程與管理的知識內涵與應用領域,培養學生具備系統化創新思維及提供完整解決方案以滿足顧客需求之基礎能力.主要內容包括:系統工程程序,系統分析與控制,組織與規劃,以及系統工程管理計畫書等.	Objectives	The practical application of Modern System Engineering and Management is a Driving Force for industrial competetivity. This course introduces the System Engineering and Management basic knowledge contents and application areas, expect the students establish the fundamental capabilities of systemmatic innovation thinking approach, and providing the total solution to satisfy the customer's requirements. The major topics will cover system engineering process, system analysis and control, organization and planning, and system engineering management plan etc.
教材	講義彙編,參考:系統工程管理基礎指南,專案管理知識體系導讀指南. Handout Materials	Teaching Materials	
成績評量方式	期中考(25%),期末考(30%),平時考與心得報告(30%),出席及平常考核(15%)	Grading	Midterm(25%), Final(30%), Quizs & Reports(30%), Attendance(15%)
教師網頁			
教學內容	何謂系統與系統工程管理?系統工程與產品生命週期之關係;系統工程程序--含需求分析,功能配置,系統合成,測試驗證等;系統分析與管制--含折衷分析,風險管理,技術審查,性能評估,型態管理等;組織規畫與管理--含工作衍生架構,整合產品發展團隊,系統工程管理計畫書等;以及系統工程與管理運用於產品創新與服務性產業實務案例介紹.	Syllabus	What is a System and System Engineering Management? Project and Product phases and life cycle; System Engineering Process--including requirement analysis, functional allocation, synthesis, verification; System Analysis and Control--including trade-off study, risk management, technical review, performance evaluation, configuration management; Organization and Planning; System Engineering Management Plan; and Case Study.