

朝陽科技大學 097學年度第1學期教學大綱  
Introduction to Software Engineering 軟體工程概論

當期課號	2737	Course Number	2737
授課教師	徐豐明	Instructor	SHYU,FONG MING
中文課名	軟體工程概論	Course Name	Introduction to Software Engineering
開課單位	資訊工程系(四日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	<p>這門課包含幾個軟體工程與軟體開發的重要內容，主題包括：系統工程、軟體流程、系統模型與統一塑模語言(UML)、物件導向設計、軟體需求與軟體測試。在完成這門課之後，學生將可以學習到下面幾點：1.瞭解軟體工程的原理；2.瞭解軟體開發中不同的階段與模型；3.具有撰寫需求規格的經驗；4.瞭解軟體設計以及快速雛形的概念；5.瞭解大型軟體的維護方式；6.瞭解CASE工具的概念並且運用特定的CASE工具。</p>	Objectives	<p>This course covers the key aspects of software engineering and Development. Topics include: system engineering, software process, system modes and UML, object-oriented design, software requirement, and software testing. On completion of this course, students should be able to perform the following tasks: 1. understanding the principles of software engineering; 2. understanding different development stages/models; 3. understanding and experience in writing requirements and specifications; 4. understanding and experience in designing and rapid prototyping; 5. understanding large scale software maintenance; 6. understanding general CASE tools and experience with particular CASE tools.</p>
教材	軟體工程-實踐者的方法 6/e，張晉源譯，滄海書局出版，2007	Teaching Materials	Roger S. Pressman. Software Engineering: A Practitioner's Approach, 6/e, 2007, McGraw Hill.
成績評量方式	期中考 30% 學期報告 40% 平時成績 30%	Grading	Midterm 30% Term Project 40% Others 30%
教師網頁	-		
教學內容	<p>W1.軟體工程簡介 W2.一般軟體開發流程 W3.流程式模型 W4.機敏流程觀點 W5-W6.軟體工程實務 (UML, CASE) W7.系統工程 W8.需求工程 W9.建構分析模型 W10.設計工程 W11.架構設計 W12.元件設計 W13.使用者介面設計 W14.測試策略 W15.產品度量 W16.網頁工程</p>	Syllabus	<p>W1.Software Engineering Introduction W2.Process: A Generic View W3.Prescriptive Process Models W4.Agile Development W5-W6.Practice: A Generic View (UML, CASE) W7.System Engineering W8.Requirements Engineering W9.Analysis Modeling W10.Design Engineering W11.Architectural Design W12.User Interface Design W13.Components Design W14.Software Testing Strategies W15.Product Metrics for Software W16.Web Engineering</p>

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