

朝陽科技大學 099學年度第2學期教學大綱
Introduction to Operating Systems 作業系統概論

當期課號	3673	Course Number	3673
授課教師	黃智慧	Instructor	HUANG,CHIH HUI
中文課名	作業系統概論	Course Name	Introduction to Operating Systems
開課單位	資訊工程系(四進)三A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	本課程主要講述作業系統的基本概念。課程內容包括：系統架構、用者介面、過程管理、記憶體管理、檔案系統、與分散式系統等作業系統核心概念。學生在完成本課程後，將可了解1. 作業系統的概念，2. 作業系統核心技術，3. 分散式系統基本概念。	Objectives	The goal of this course is to provide the students with a basic knowledge of the kernel of operating systems. The main topics include system structure, user interfaces, process management, memory management, file systems, and distributed systems. The students will realize the following topics after finishing this course: 1. the concepts of an operating system, 2.the techniques of the kernel of operating systems, 3. the basic concepts of distributed systems.
教材	黃政治編譯, Operating System Concepts(作業系統原理), 8 Ed., 東華, 2010. 參考書目: 1.陳玄玲譯, William Stallings, Operating Systems, 6 Ed., 全華. 2.駱詩軒、駱詩富、鄧俊修等譯, 作業系統原理 7/e, 東華書局, 2006. [Silberschatz et al., Operating System Principles 7/e, Addison-Wesley, 2006].	Teaching Materials	Abraham et al., Operating System Concepts, 8 Ed., wiley, 2010 Reference: 1.陳玄玲譯, William Stallings, Operating Systems, 6 Ed., 全華. 2.駱詩軒、駱詩富、鄧俊修等譯, 作業系統原理 7/e, 東華書局, 2006. [Silberschatz et al., Operating System Principles 7/e, Addison-Wesley, 2006].
成績評量方式	1.隨堂考: 20% 2.小考: 20% 3.期中考(Midterm Exam): 35% 4.期末考(Final Exam): 35% 5.課程參與(Participation): 5%	Grading	1. Quizzes in Class: 20% 2. Quizzes: 20% 3. Midterm Exam: 35% 4. Final Exam: 35% 5. Participation: 5%
教師網頁	-		
教學內容	1. 緒論 2. 系統架構 3. 行程與多行緒 4. 行程排班 5. 同步 6. 死結 7. 記憶管理 8. 虛擬記憶管理 9. 檔案系統	Syllabus	1. Introduction 2. System Structures 3. Process Concept 4. Process Scheduling 5. Synchronization 6. Deadlocks 7. Memory Management Strategies 8. Virtual Memory Management 9. File System

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