朝陽科技大學 094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	2046	Course Number	2046
授課教師	黃國安	Instructor	HWANG,KUO AN
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(四日)二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	1. A. Silberschatz, P. B. Galvin, G. Gagne, Operating System Concepts, Seventhth Edition, John Wiley & Sons, Inc., 2006. 2. http://kahwang.nc.cyut.edu.tw/index.php 網站講義	Teaching Materials	
成績評量方式	1. 期中考 30% 2. 期末考 30% 3. 平時考與習題 20% 4. 上機實做習題 20%	Grading	1. Med-term Ex. 30% 2. Final Ex. 30% 3. Exercise 20% 4. Programming project 20%
教師網頁	http://kahwang.nc.cyut.edu.tw/index.php		
教學內容	1. Introduction 2. System Structures 3. Process Concept 4. Multithreaded Programming 5. Process Scheduling 6. Synchronization 7. Deadlocks 8. Memory Management Strategies 9. Virtual Memory Management 10. File System 11. Implementing File Systems 12. Secondary Storage Structure 13. Distributed Operating Systems	Syllabus	1. Introduction 2. System Structures 3. Process Concept 4. Multithreaded Programming 5. Process Scheduling 6. Synchronization 7. Deadlocks 8. Memory Management Strategies 9. Virtual Memory Management 10. File System 11. Implementing File Systems 12. Secondary Storage Structure 13. Distributed Operating Systems

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