

國立屏東大學 111學年度第1學期 教學課程綱要

※為保護智慧財產權，請勿非法影印教科書。

課程學分數：3.00(3.00小時)

授課老師：蔡安朝(301019)

必選修：必

開課序號	0234
科目名稱	高等作業系統 (FAB1103)
科目英文名稱	Advanced Operating Systems
授課語言	英語/全外語授課
主要教學型態	課堂教學
教學目標	Addressing a broad range of topics in operating system design and implementation.
每週課程內容及教學方法	<p>(Please join the line group: https://line.me/R/ti/g/dYKlwkFLXr , the information about distance learning would be announced here.)</p> <ol style="list-style-type: none"> 1. Introduction Lecture 2. Introduction II Lecture 3. System Structures Lecture 4. Processes-Concept Lecture 5. Multithreaded Programming Lecture 6. Process Scheduling Lecture 7. Synchronization Lecture 8. Deadlocks Lecture 9. Midterm Exam Exam 10. Memory Management Strategies Lecture 11. Virtual-Memory Management I Lecture 12. Virtual-Memory Management II Lecture 13. File System Lecture 14. Implementing File Systems Lecture 15. Secondary-Storage Structure Lecture 16. Virtualization Lecture 17. Parallel System Lecture 18. Final Exam Exam
核心能力	<ol style="list-style-type: none"> 1. 培養理論與實務並重之資訊專業知識 60% 2. 整合系統開發、系統設計及實務應用能力 15% 3. 優質團隊合作、全球化思考及國際視野之能力 10% 4. 團隊領導與管理能力 0% 5. 獨立思考與研究能力 10% 6. 科技鑑賞與創新能力 5%
預期學習成果	To understand the working theory and implementation methods of operating system and advanced operating system.

與預期學習成果 搭配的多元評量	The assessments including the midterm, final exam, homeworks, projects and discussions to make sure student could figure out the contents.
主要讀本	Abraham Silberschatz, Peter B. Galvin, Greg Gagne, Operating System Concepts, 9th Edition International Student Version, Wiley, ISBN: 978-1-118-65279-4, May. 2013.
參考書目	Abraham Silberschatz, Peter B. Galvin, Greg Gagne, Operating System Concepts with JAVA, 8th Edition, Wiley, ISBN: 978-0-470-39879-1, Feb. 2010.
其他事項	Please join the line group: https://line.me/R/ti/g/dYKlwkFLXr , the information about distance learning would be announced here.