

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：吳卓俊(227006)

必選修：選

開課序號	0706
科目名稱	即時作業系統(BFBZ064)
科目英文名稱	Real-Time 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	<p>*** 本課程使用Teams做為公告、討論及遠距授課，請所有同學務必使用本校Office365帳號加入課程團隊(連結為<a href="https://reurl.cc/2m6bA6">https://reurl.cc/2m6bA6</a>) ***</p> <p>*** Notice: The courses of the last two weeks (i.e., 12/30 and 2023/1/6) will be adjusted to 8:00-8:50am for every Friday from 9/23 to 10/28 . ***</p> <p>The objectives of this course is to train students with the knowledge and skills of task scheduling and dynamic voltage scaling for real-time systems.</p> <p>*** We will use Microsoft Teams in case we need to have some courses remotely. ***</p>
每週課程內容及教學方法	<ol style="list-style-type: none"> <li>1. Introduction to real-time systems</li> <li>2. Task model</li> <li>3. Task scheduling algorithms</li> <li>4. Resource model</li> <li>5. Resource synchronization</li> <li>6. Real-time task model</li> <li>7. Independent task scheduling</li> <li>8. Dependent task scheduling</li> <li>9. DVS scheduling of independent tasks</li> <li>10. DVS scheduling of dependent tasks</li> </ol>
核心能力	
預期學習成果	Understanding the basic concepts and fundamental of real-time systems.
與預期學習成果搭配的多元評量	Midterm 35 Final 35 Assignments 30
主要讀本	Jane W. S. Liu, Real-Time Systems, Prentice Hall, 2000, ISBN-13: 978-0130996510
參考書目	Related papers

其他事項	None
------	------