

朝陽科技大學 092學年度第2學期教學大綱
Queueing Theory 排隊理論

| | | | |
|--------|--|--------------------|---|
| 當期課號 | 7788 | Course Number | 7788 |
| 授課教師 | 黃國安 | Instructor | HWANG,KUO AN |
| 中文課名 | 排隊理論 | Course Name | Queueing Theory |
| 開課單位 | 資訊工程系碩士在職專班一A | Department | |
| 修習別 | 選修 | Required/Elective | Elective |
| 學分數 | 3 | Credits | 3 |
| 課程目標 | <p>這門課的目標是提供學生網路排隊理論的知識，主題包括：機率簡介、排隊理論簡介、Markov process、各類Processes的定義與state 機率推導、Simulation modeling與Analysis。在完成這門課之後，學生將可以學習到下面幾點：1.瞭解排隊理論的功能；2.瞭解Discrete 與Continuous Markov chain；3.瞭解排隊理論的各種Processes的state 機率與效能分析；4.建立Simulation modeling。</p> | Objectives | <p>The goal of this course is to provide students with a basic knowledge of the queueing theory. The main topics include Probability introduction, Queueing introduction, Markov processes, Various Markov process and the state probability determination, and Simulation modeling and analysis. Students will realize the following backgrounds of this course after completing the course: 1. The function of Queueing system; 2. Discrete and Continuous Markov chains; 3. The determination of state probability of each state of Markov processes; 4. Simulation modeling and analysis.</p> |
| 教材 | <p>1. 課堂講授 2. 論文報告</p> | Teaching Materials | <p>1. Lecture 2. Paper presentation</p> |
| 成績評量方式 | <p>期中考 25% 期末考 25% 上台講述 25% 系統實做 25%</p> | Grading | <p>Med-term Ex. 25% Final Ex. 25% Presentation 25% Programming project 25%</p> |
| 教師網頁 | http://www.csie.cyut.edu.tw/~kahwang/ | | |
| 教學內容 | <p>1. 緒論 2. 機率 3. 隨機程序 4. 馬可夫序隊 5. 模擬 6. 進階序隊 7. 序隊網路 8. 多群集序隊網路 9. 近似方法 10. 其他候伺系統</p> | Syllabus | <p>1. Introduction 2. Probability Theory 3. Stochastic Processes 4. Markovian Queues 5. Simulation 6. Advanced Queues 7. Queueing Networks 8. Multi-class Queueing Networks 9. Approximate Methods 10. Blocking in Queues 11. Queue Design</p> |

尊重智慧財產權，請勿非法影印。