

97-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	離散最佳化	Serial No. / ID	1336 / IFR5120
Dept.	資訊工程學系碩士班	School System / Class	研究所碩士班1年1班
Lecturer	程仲勝	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	NO
Time / Place	(一)234 / H705	Language	English

Introduction
<p>This course introduces the important idea of the computational complexity in computer science, and how to solve the engineering optimization problems by using the mathematical programming methods. This course is intended to provide students with an overall description of optimization problems and to enable them to understand the nature of optimization problems. It is greatly helpful to the students for their future engineering research.</p>

Outline
<ol style="list-style-type: none">1. Optimization Problem Overview2. Computational Complexity3. Mathematical Programming4. Duality Theorem5. Primal-Dual Algorithms6. Matching problems7. Spanning Trees and Matroids8. Approximation Algorithms9. Branch-and-Bound Algorithms10. Dynamic Programming Algorithms11. Local Search12. Simulated Annealing and Genetic Algorithms

Prerequisite
NA