

99-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	最佳化設計	Serial No. / ID	1581 / ADR5040
Dept.	機械與自動化工程學系博士班	School System / Class	研究所博士班1年1班
Lecturer	紀華偉	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(一)78 / H227-3(三)5 / H227-3	Language	Chinese

Introduction
<ol style="list-style-type: none"> 1. Teach students the numerical optimization theories and techniques. 2. Teach students how to implment the optimization techiques for engineering design tasks

Outline
<ol style="list-style-type: none"> 1. Introduction 2. Single Variable Optimization 3. Multi-Variable Unconstrained Optimization 4. Multi-Variable Constrained Optimization Linear Programming, Non-linear Programming 5. Non-traditional Optimization Techniques: GA (Genetic Algorithm) SA (Simulated Annealing) ANN (Artificial Neural Network) 6. Case Study

Prerequisite
Engineering Mathematics Calculus Programming Language Numerical Methods