

101-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	實驗設計	Serial No. / ID	1800 / UDR5027
Dept.	環境工程學系博士班	School System / Class	研究所博士班1年1班
Lecturer	葉啟輝	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(一)567 /	Language	English

Introduction	
introductory the design and analysis of experiments	

Outline	
Introduction (Ch.1)	
Simple Comparative Experiments (Ch.2)	
Experiments with a Single Factor: The Analysis of Variance (Ch.3)	
Randomized Blocks, Latin Squares, and Related Designs (Ch.4)	
Introduction to Factorial Designs (Ch.5)	
The 2k Factorial Design (Ch.6)	
Blocking and Confounding in the 2k Factorial Design (Ch.7)	
Two-Level Fractional Factorial Designs (Ch.8)	
Fitting Regression Models (Ch.10)	
Response Surface Methods and Other Approaches to Process Optimization (Ch.11)	
Experiments with Random Factors (Ch.13)	
Other Design and Analysis Topics (Ch.15)	

Prerequisite	
statistical methods	