

## 98-2 Preliminary Syllabus, Da-Yeh Univ

| Information       |                          |                       |                |
|-------------------|--------------------------|-----------------------|----------------|
| Title             | 實驗設計                     | Serial No. / ID       | 1461 / VGR5013 |
| Dept.             | 環境工程學系碩士班                | School System / Class | 研究所碩士班1年1班     |
| Lecturer          | 柯雅雯                      | Full or Part-time     | 專任             |
| Required / Credit | Optinal / 3              | Graduate Class        | NO             |
| Time / Place      | (一)56 / H545 (四)5 / H545 | Language              | Chinese        |

| Introduction  |
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| introductory the design and analysis of experiments |

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

| Prerequisite        |
|---------------------|
| statistical methods |