

## Theory of Engineering Experimentation

unique designed course to aid engineers in performing the experimental design by statistical analysis. Analysis of errors and working relationships between variables are discussed

**Topics to be covered (Tentative)**

1. Ch 3: Discrete Random Variables and Probability Distributions (selected topics)
2. Ch 4: Continuous Random Variables and Probability Distributions (selected topics)
3. Ch 6: Descriptive Statistics
4. Ch 8: Statistical Intervals for a single sample
5. Ch 9: Test of Hypothesis for a single sample
6. Ch10: Statistical Inference for two samples (Z and F tests)
7. Ch11: Simple linear regression
8. Ch 13: Design and Analysis of single-factor experiments
9. Ch 14: Design of Experiment with several factors
10. Error Analysis.