

Quality Control

Fall 2007

授課教師：許志華

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Course Outline:

This course will introduce the meaning of quality control and how to improve quality through statistical methods. We will emphasize on solving quality control problems by statistical techniques. The contents will include definitions of quality control, its importance and usefulness in all kinds of industry, and several techniques which are used in quality control most often. An outline of the topics covered in the course is:

- Introduction
- Modeling process quality
- Inferences about process quality
- Methods and philosophy of statistical process control
- Control charts for variables
- Process and measurement system capability analysis
- Univariate statistical process monitoring and control techniques
- Multivariate process monitoring and control
- Acceptance sampling

Textbook:

Montgomery, D. C., 2005, Introduction to Statistical Quality Control 5th ed, John & Wiley.

References:

傅和彥、黃士滔，2004，品質管理：觀念、理論與方法 3/e，前程文化事業有限公司。

評分方式：

平時成績(出席、作業)	30%
期中考	30%
期末考	40%