ME379M / ME397 / ORI397

Statistical Methods in Manufacturing

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Class times: Tuesdays and Thursdays 12:30pm-2pm Classroom: ETC 5.132

Course Contents:

Contemporary concepts and methods for statistical quality design and control will be presented. These include:

- Descriptive statistics
- Behavior of process over time
- Design and interpretation of control charts
- Process capability studies
- Measurement system analysis
- Correlation and regression analysis
- Design and analysis of two level factorial experiments
- Design and analysis of two level fractional factorial experiments
- Response surface methodology
- Taguchi approach to robust design

Textbook:	DeVor, Chang, and Sutherland
	Statistical Quality Design and Control, Contemporary Concepts and
	Methods, 2 nd Edition, Pearson, 2006.

Grading:	Midterm Exam	35%
8	Final Exam	40%
	Homeworks	20%
	Attendance/Participation	5%