MEEM 4650/5650 QUALITY ENGINEERING Fall 2004

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Topics

Introduction
Historical View of Quality
Total Quality Management (TQM)
Deming’s 14 Points
Taguchi’s View of Quality
Statistical Fundamentals
Conceptual Framework for Statistical Process Control
Statistical Basis for Shewhart Control Charts
Construction and Interpretation of Shewhart Control Charts
Computer Workshops
Rational Sampling
Process Capability
Control Charts for Individuals
Control Charts for Attribute Data
Case Studies
Other topics for graduate credit

Text: Statistical Quality Design and Control, Contemporary Concepts and Methods, Macmillan, Richard E. DeVor, T. H. “Phil” Chang, John W. Sutherland

UG Grade Determination (Grad. %):
25% Homework (20%)
15% Computer Workshops (10%)
25% Midterm Exam (25%)
35% Final (35%)
Extra Assignments (10%)

Grade Breakdown:
Class GPA - approx. 3.0
about 2/3 A’s and B’s

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