

Quality Assurance

PREPARED BY: Dr. Nourredine Boubekri

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OFFICE : Department of Engineering Technology-Discovery Park
F115P

COURSE NUMBER, TITLE, CREDIT HOURS:

MFET 4190, 3 credit hours

DESCRIPTION:

Review of statistics and discussion of statistical process control (SPC). The study of quality management, including preproduction suppliers, in-process and finished, product quality, methods of statistical analysis and quality audits, costs, and employee training.

COURSE LEARNING OBJECTIVES:

- 1-Demonstrate an understanding of statistical process control and techniques
- 2-Demonstrate an understanding of Quality Management principles

COURSE LEARNING OUTCOMES

The course demonstrates that graduates have:

- e. an ability to identify, formulate and solve engineering problems.

PREREQUISITES:

MFET 3110 or consent of department

TEXTBOOKS:

Quality Management; Fourth Edition; 2015 by Howard Gitlow, Rosa Oppenheim, Alan Oppenheim, and David Levine. Hercherpublishing.com

*University of North Texas
Engineering Technology*

COURSE OUTLINE:

- 1 Review of statistics
- 2 Defining and Documenting a Process
- 3 Fundamentals of Quality
- 4 Statistical Process Control
- 5 Attribute Control Charts
- 6 Variables Control Charts
- 7 Stabilizing and Improving a Process with Control Charts

GRADING ELEMENTS AND WEIGHTS:

Semester Exams (2) 50% each

Exam 1 includes topics 1,2,3,4 up to chapter 6 in textbook

Exam 2 includes chapters 7,8 in textbook

Scale:

Above 60 D

Above 70 C

Above 80 B

Above 90 A