

Quality Assurance

PREPARED BY: Dr. Nourredine Boubekri Boubekri@unt.edu 940 565 2136

OFFICE: Department of Mechanical Engineering Discovery Park F115P

Office Hours: Tuesday and Thursday; 2:00pm to 3:00 pm by appointment

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 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

COURSE Topics:

- 1 Fundamentals of Quality-Chapter 1
- 2 Fundamentals of statistical Studies -Chapter 3
- 3 Defining and Documenting a Process-Chapter 4
- 4 Stabilizing and Improving a Process with Control Charts-Chapter 6
- 5 Attribute Control Charts-Chapter 7
- 6 Variables Control Charts-Chapter 8

GRADING ELEMENTS AND WEIGHTS:

Semester Exams (3) 25%, 25%, 25% Homework 25%

Exams Schedule: Exam 1 February 24,2022

Exam 2 March 24,2022

Exam 3 May 05,2022