Quality Assurance

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

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
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