# Quality Assurance

**PREPARED BY:** Dr. Nourredine Boubekri
Boubekri@unt.edu
940 565 2136
**OFFICE :** Department of Engineering Technology-Discovery Park
F115P :Tuesday and Thursday From 2:00pm to 3:00 pm and 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:*
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
8 Costs of Quality

## GRADING ELEMENTS AND WEIGHTS:

| | |
|---|---|
| Semester Exams (3) | 30%, 30%, 30% |
| Homework | 10% |