

## Quality Assurance

**PREPARED BY:** Dr. Nourredine Boubekri

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**OFFICE :** Department of Engineering Technology-Discovery Park  
F115P :Tuesday and Thursday From 3:00pm to 4:0pm 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**

*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
- 8 Costs of Quality

**GRADING ELEMENTS AND WEIGHTS:**

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