Quality Assurance

PREPARED BY: Dr. Nourredine Boubekri
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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%