Technology Innovation

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

COURSE NUMBER, TITLE, CREDIT HOURS:

MSET 5060, 3 credit hours **DESCRIPTION:**

Innovation Technologies. Topics include: Understanding Innovation, Processes of Technology Innovation, Techniques of Technology Innovation, Planning for Innovation, Using Innovation Technology, Engineering Technologies Cases analyses.

COURSE LEARNING OBJECTIVES:

1-Demonstrate an understanding of processes, techniques, involved in generating ,screening and bringing to fruition ideas when innovating

- 2-Demonstrate an understanding of planning, financial, organizational, legal, and commercialization processes involved in technology innovation
- 3-Demonstrate an understanding od social impacts of Technology innovation
- 4-Demonstrate an understanding of product life cycle analysis
- 5-Demonstrate an understanding of project planning and operations management principles

COURSE LEARNING OUTCOMES

The course demonstrates that graduates have:

- d. an ability to function on multidisciplinary teams.
- e. an ability to identify, formulate and solve engineering problems.
- f. an understanding of professional and ethical responsibility.
- g. an ability to communicate effectively.
- i. a recognition of the need for, and an ability to engage in life-long learning.
- j. a knowledge of contemporary issues

PREREQUISITES: Graduate Standing **TEXTBOOKS:**

-Reference reading: New Products Management by C. Merle Crawford/C. Anthony Di Benedetto (Library Reference Section)

CASE STUDIES

Distributed in class

COURSE OUTLINE:

University of North Texas Engineering Technology

This course outline is the core of what is to be covered in the course. Research Material

- may be added as appropriate by the course instructor.
- 1. Introduction to Innovation and Innovation Technology-Strategic Planning
- 2. Processes of Technology Innovation-Ideas Generation and Screening
- 3. Planning and Organizing for Technology Innovation
- 4. Financial and capacity planning
- 5. Commercialization of innovation
- 6. Technology Innovation and Society- Societal and Legal Aspects
- 7. Product Life Cycle Analysis
- 8. Project Review

Semester projects are prepared and presented in class following professionally accepted standards.

LIBRARY USAGE:

Students are encouraged to use library resources to conduct their research semester projects;

GRADING ELEMENTS AND WEIGHTS:

Semester project	40%
Semester Exam	30%
Case Studies Analyses	30%

Project

Semester project will be distributed in class. It is to be performed in groups of 3 students. Each project requires a professional style report and presentation in class Due the last day of class.