# The University of Texas at Tyler

*Soules College of Business*

**Department of Technology**


## TECH 5335 Lean Management
## Course Syllabus

Instructor: Mrs. RaeJean Griffin, MS
Contact Info: rgriffin@uttyler.edu
Office: COB 225.07
Office Hours: By Appointment
Class Time: Online
Classroom: Online

**Course Description**

An overview of how the lean production system can be implemented into an organization or company to improve profitability by reducing waste. Key concepts such as, visual management, Five S, TPM, Kaizen, kanban, jidoka, hoshin planning, and PDCA will be covered.

**Lecture Notes**

A copy of the lecture notes is required and can be downloaded online via Canvas.

**Textbook (Required):**

Dennis, Pascal. 2015 (3rd Edition). Lean production simplified: A plain-language guide to the world's most powerful production system. New York, NY: Productivity Press. ISBN-13: 978-1498708876

**Course Objectives**

1. Recognize the lean tools used to eliminate waste in an organization or company.
2. Understand the importance and need for lean management.
3. Learn to work effectively in teams and obtain buy-in for lean thinking in an organization or company.
4. Determine the proper lean tools required to eliminate waste in specific applications.

**Student Learning Outcomes**

At the end of this course, participants will be able to:

1. identify and define the key concepts that create a lean environment by successfully passing quizzes and exams with a grade of 70% or better.

2. prepare and successfully present an in depth report on a key component of lean and how it effects their current employment.
3. thoroughly understand the lean tools used to eliminate waste in a company or organization by successfully passing a midterm and final exam with a grade of 70% or better.
4. complete a lean project at home or work to the desired specifications of the required assignment.

**Core Competencies**

1. Computer-Based Skills – the student will complete written assignments using the word processor.
2. Communication Skills – the student will exhibit a mastery of both written and oral skills in completion and presentation of the assigned group projects.
3. Interpersonal Skills – the student will interact in class discussion regarding the production industry and lean concepts.
4. Problem Solving (Critical Thinking) – the student will use conceptual thinking to analyze and make determinations regarding the use of industrial processing equipment.
5. Personal Accountability for Achievement – the student will complete the projects at the time designated by the instructor.
6. Competence in Technology Principles
   a. Competence in major field and grounding in other major technology major core areas – the student will gain knowledge and skills related to lean philosophies.
   b. Exposure to and appreciation for industrial experiences such as industrial tours, work-study options and cooperative education, senior seminars – The student will be able to attend field trips to various industries in the area.

**Tentative Course Requirements:**

| | |
|---|---|
| Quizzes | 200 |
| Case Study/Project | 100 |
| Tests | 200 |
| Final Exam | 200 |
| TOTAL POINTS = | 700 |

**Grade Scale Breakdown:**

A=90 - 100%
B=80 - 89%
C=70 - 79%
D=60 - 69%
F=BELOW 60%

**TENTATIVE COURSE SCHEDULE**

**August**

Administrative concerns, about the course, assignments

Introduction to Lean

History and growth of Lean; Muda

Stability and Standardized Work

**September**

Just-In-Time

Kanban

Push and Pull Systems

Jidoka

Poka-yoke

Kaizen

Midterm Exam

**October**

Hoshin Planning

Value Stream Mapping

Case Studies or final work assignments

FINAL EXAM October 10th

**Important Dates:**

**Census Date**: Aug. 28th
**September 7th –** Labor Day
**September 16th Mid** Terms
**September 25th- Last Day to Withdraw**
**October 10th -Final Exams**

**Course Policies:**

Content for examinations will be taken from lectures, demonstrations, reading assignments, laboratory exercises and any audio-visual materials used, i.e. films, slides, etc.

Make up examinations are the student's responsibility. No excuses will be accepted after the exam is given. The instructor must be notified **prior** to the scheduled exam. If not, the student forfeits his/her right to take the exam. Quizzes will not be made up unless a **prior** acceptable excuse for an absence has been received by the instructor.

**Late Work:**

All work not turned in on time will have an automatic reduction in value to 50% of its full value. **Work that is not turned in by the next class will NOT be accepted.** Exceptions to this will be as per University Policy concerning absences from class. If you know an assignment will be late for a valid reason, inform your instructor in advance to avoid unnecessary penalty.

**Format for Reports:**

The cover must contain the following:

1. Assignment Title in **BOLD** letters and the number of the chapter.
2. Prepared by: Your Name Here
3. Submitted to Mrs. RaeJean Griffin in partial fulfillment of the course
4. Course Name, TECH 5335 Lean Management
5. The Date

Your grade will reflect the quality of the presentation.