Course Title	**Lean Six Sigma**
Course	**OPRE 6364.001**
Term	**Spring 2017**
Meetings	**Tuesdays 4:00 PM - 6.45 PM**
Classroom	**JSOM 1.110**
Instructor	**Kannan Ramanathan**

Instructor's Contact Information

Office Phone	(972) 883-5953
Office Location	JSOM 3.622
Email Address	Kannan.Ramanathan@UTDallas.Edu
Office Hours	Thursday 5:30 PM - 6:30 PM, by appointment only
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Teaching Assistant's Contact Information

Name	Keerthana Rajendran
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Office	JSOM 2.604
Office Hours	Tuesday 4:00 PM - 6:00 PM

General Course Information

Pre- Co- requisites	**BA3352**

Course Description

This class is designed to introduce students to concepts and techniques in Lean and Six Sigma. Lean manufacturing/service focuses on improving the speed of a process and the elimination of waste, primarily by reducing non-value-added steps. Six Sigma deals with the effectiveness with which a process meets customer requirements and is free of defects. The course covers these topics with an emphasis on quantitative methods.

Employers are increasingly looking for candidates trained in process engineering. As such, this course will benefit students from all business disciplines, and focusing on different majors.

Learning Goals

1	Understand concepts of Lean and Six Sigma processes
2	Develop analytical thinking and problem solving capability
3	Cultivate ability to apply concepts and techniques to process engineering
4	Be familiar with tools and software in advanced process engineering
5	Express your ideas and thoughts clearly and concisely

Assignments & Academic Calendar

Jan 10th to Feb 28th	Lean
Mar 7th	Mid-Term
Mar 14th	Spring break - no class
Mar 21st	Review of Mid-Term
Mar 21st to Mar 28th	Basic Statistics
April 18th	Paper is due
May 2nd	Final

See eLearning for details

Required Reading

1. My class notes (mainly PowerPoint) that will be posted on eLearning

2. Case study from Darden Business Publishing

Lean Wausau Equipment Company (A) #UV1079

This case is available for purchase at the link given below

http://store.darden.virginia.edu/wausau-equipment-company-a-lean-journey-a

	Completion date
For Open Book Quiz 1	LEAN MANUFACTURING AT FCI (A) — Mon, Jan-23
For Open Book Quiz 2	LEAN MANUFACTURING AT FCI (B) — Mon, Feb-06
For Open Book Quiz 3	Apollo Hospitals — Mon, Feb-20
For Open Book Quiz 4	Innovation vs. Complexity — Mon, Mar-06
For Open Book Quiz 5	Lean Consumption James Womack and Daniel Jones — Mon, Mar-20
For Open Book Quiz 6	Mumbai's Model of Service Excellence — Mon, Apr-03
For Open Book Quiz 7	Tha normalization of deviance in healthcare delivery — Mon, Apr-17
For Open Book Quiz 8	Managing Quality with Process Control — Mon, May-01

These cases are available for purchase at the link given below

http://cb.hbsp.harvard.edu/cbmp/access/57652463

Recommended Reading

I recommend you read the following two publications to expand your knowledge and understanding of Lean and Six Sigma.

Becoming Lean - Inside Stories of U.S. Manufacturers
Jeffrey K. Liker, Editor
Productivity Press, Portland, Oregon
ISBN 1-56327-173-7

The Six Sigma Handbook, Third Edition
Thomas Pyzdek & Paul Keller
McGrawHill
ISBN 978-0-07-162338-4

Course Requirements and Grading Policy

The course content will be presented and discussed through a combination of lectures and class discussions. My intent is to help you think through the issues in a given context, and to help you articulate your participation in class discussions clearly and concisely. Students are expected to attend all classes and to read the assigned material. You need to come to class after having studied the material that will be discussed in a given class. University guidelines recommend that you study 2-3 hours per week for every credit hour in which you are enrolled. Your grade will be based on the following:

Mid-Term	30%
Final	30%
Open Book Quizzes	25%
Class Participation	5%
Case Study Paper	0%
Process Mapping Project	

Process Mapping Project

This is similar to a consulting project. Depending on the project, students will work individually or in teams, on developing a map of a real process at a participating organization. This will require meetings with our client, at the client's site, and developing a map of the process that the department is engaged in. The number of such projects is very limited.

Class Participation

Points for class participation will be based on your punctuality, regular attendance, quality and extent of discussion in class, and during guest lectures. Class participation requires your studying class materials before the class.

You are expected to attend each class. An absence (defined as not being present when attendance is taken) will result in a reduction of 2 percentage points from your total grade.

USE OF LAPTOPS, CELL PHONES, TEXTING, EMAILING, AND SURFING THE INTERNET ARE STRICTLY FORBIDDEN DURING CLASS HOURS - A VIOLATION CARRIES A PENALTY OF 5 percentage points FROM YOUR COURSE GRADE.

Please Note:

Grades will NOT be curved.

There are no make up quizzes.

There is no provision for extra credit.

Grades will be based on the following point ranges:

Points Range	Letter Grade
0-74	F
75-76	C
77-79	C+
80-82	B-
83-85	B
86-89	B+
90-92	A-
93-100	A

Comet Creed

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

"As a Comet, I pledge honesty, integrity, and service in all that I do."

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.

Please go to http://go.utdallas.edu/syllabus-policies for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.