IEE 585 Six Sigma Capstone

Course Description
The six sigma process improvement strategy of define, measure, analyze, improve, and control (DMAIC) and how it is applied in the formulation and execution of a six sigma project is the central focus of this course. Students find and complete an acceptable project using the DMAIC approach, and document how the six sigma tools were used in project completion. The project is expected to be at the level of a typical black belt project in industry.

Course Objectives
To provide participants an opportunity to use the six sigma approach to process improvement in business and industry, and to successfully complete a six sigma project.

Course Outcomes
Demonstration of DMAIC skills.
Demonstration of project management ability.
Successful completion of a project where the range of six sigma skills is demonstrated.

Course Pre-requisite:
IEE 581

Course Assessment:
Students complete a six-sigma black belt project and prepare a written final report.
   Course grade is based on this assignment. The written report is expected to be turned in at the end of the semester.

Textbooks


Reading & Resource List

Books


**Articles**

