

IT 470b
Six Sigma Green Belt
Spring 2010

Catalog Description:

Study the knowledge areas of Six Sigma Green Belt. The purpose of this course is to provide the student with a comprehensive coverage of the techniques, tools, and applications of the methodology by the name “Six Sigma.” Real-life data from manufacturing companies will be evaluated (when available) and analyzed for better understanding of the concepts to be learned in the course.

Course Objective:

This course will cover the knowledge areas of Six Sigma Green Belt. Topics include; exploratory data analysis, correlation and regression, hypothesis testing, single-factor ANOVA, Design of Experiments basics, implement and validate solutions, statistical process control, control plans.

Important Dates/Times:

Class meets Saturday and Sunday 3/27-28, 4/10-11, and 4/24-25 from 8:00am-4:30pm

Test 1 – Afternoon 3/28

Test 2 – Afternoon 4/11

Test 3 – Afternoon 4/25

Assessment Methods:

Grade scale 90/80/70/60

1. 3 Exams (25% each, all comprehensive) – no late test accepted
2. Homework/ project work/ research (25%) – no late work accepted
3. Class participation (attendance)

Note: College policy on cheating and plagiarism will be adhered to.

Topical Outline: (tentative)

Section IX Test 1

Section X Test 2

Section XI Test 3

Text and Supplies:

Required: Statistical CSSGB PRIMER, Quality Council of Indiana, www.qualitycouncil.com, 2006, or latest.

Scientific calculator (must have average, standard deviation, etc)

Recommended: Access to Microsoft Office or similar office program

Class Layout:

Homework assignment – Q/A – Lecture – Exercise/Exam

Instructor:

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Disclaimer:

Circumstances may require some changes to this syllabus.