IE 311: Operations Research I

Lab and Tutorial Syllabus

Instructor: Duaa Bogari

Office Hours: Sun 10-1

                Mon 11-1

                Tues 10-12, 1-2

Office: Building 7, room 70-C

E-mail: dbogari@kau.edu.sa

Website: http://dbogari.kau.edu.sa

Class Days: Thursday

Class Time: 1-2:50 pm

Classroom: Building 64G, 120L

Textbook:

Quantitative Analysis for Management, Barry Render, Ralph M. Stair (Jr) and Michael Henna, Prentice Hall International Inc., 11th Edition (2012).

Software: Excel Solver, QM, and TORA

Grading: Assignments 5%
                   Lab   5%

Topics to be covered:
- ❖ Modeling with Graphical solution of Linear Programming problems
- ❖ Simplex Method
- ❖ Sensitivity Analysis and Duality
- ❖ Transportation and Assignment problems
- ❖ Network Models
- ❖ Integer Linear Programming
- ❖ Goal Programming models
- ❖ Introduction to Nonlinear Programming