Applications of LP Modeling

1. Make versus Buy Decisions
2. Production / Operations Management Applications
   a. Product Mix
   b. Production and Inventory Planning Problem
   c. Production Scheduling
   d. Work Force Assignment
   e. Transportation Problem – LP versus heuristic solutions
   f. Shortest Path Problem – LP versus heuristic solutions
3. Marketing Applications
   a. Media Selection
   b. Marketing Research
4. Financial Applications
   a. Investment Problem
   b. Multi – Period Cash Flow Problem
   c. Portfolio Selection
   d. Financial –Mix Strategy
   e. Multi-Period Case Flow Problem with Risk
5. Blending Problem
6. Data Envelopment Analysis
   a. Evaluating the Performance of Hospitals

Integer Linear Programming (ILP)

Discriminate Analysis: Two – Group DA Problem

References on LP Teaching:

1. Verma Robit, My Operations Management Students Love Linear Programming, Decision Line,
2.

Useful Web Links for Understanding Linear Programming:

- Operations Research Models and Methods at
  http://www.me.utexas.edu/~jensen/ORMM/index.html
- http://www.me.utexas.edu/~jensen/ORMM/computation/unit/mp_add/subunits/Ip_add/flash.html