

SYLLABUS :-

Prerequisite: None

Behavioral versus quantitative decision making, Role of models, Linear algebra.

Linear programming: Formulation of LP models, Graphical procedure of solution and Simplex method, Sensitivity analysis, Karmarkar's algorithm.

Transportation and assignment problems, Network flow.

Revised Simplex, Duality Theory and its application,

Integer Programming, Cutting plane algorithm and Branch and bound algorithm.

Books

- Ravindran, A., Philips, D.T., and Solberg, J.J., Operations research, John Wiley and Sons.
- Taha H.A., Operation Research- An Introduction, PHI
- Hillier F.S. and Lieberman G.J., Introduction to Operation Research, McGraw Hill.
- Hadley G., Linear Programming, Addison-Wesley.