

OPERATIONAL RESEARCH (MATHEMATICS)

Unit 1. Modeling with Linear Programming

- 1.1 Two variable LP Model
- 1.2 Graphical LP solution
- 1.3 Selected LP Applications
- 1.4 Graphical Sensitivity analysis.

Unit 2. The Simplex Method

- 2.1 LP Model in equation form
- 2.2 Transition from graphical to algebraic solutions
- 2.3 The simplex method
- 2.4 Artificial starting solutions.

Unit 3. Duality

- 3.1 Definition of the dual problem
- 3.2 Primal dual relationship.

Unit 4. Transportation Model

- 4.1 Definition of the Transportation model