VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
M.Sc. (I.T.) [Five Years Integrated Course]
M.Sc. (Information Technology)
1st Semester Syllabus

Effective From July-2003

Paper No : 704
Paper Title : Operation Research.

[L : 4, P : 0 Hrs]

1. Linear Programming
   1.1 Formulation of L.P.P.
   1.2 Solution Methods
      1.2.1 Graphical Method
      1.2.2 Simplex Method
      1.2.3 Two Phase Method
      1.2.4 Big-M Method

2. Special cases of L.P.P.
   2.1 Transportation Problem
   2.2 Assignment Problem

3. Job Sequencing
   3.1 Processing n jobs through 2 machines
   3.2 Processing n jobs through 3 machines
   3.3 Processing 2 jobs through m machines
   3.4 Processing n jobs through m machines

4. Inventory Problem
   4.1 Introduction to Inventory
   4.2 Deterministic Inventory models
   4.3 Dynamic Inventory models

5. Network Analysis
   5.1 PERT
   5.2 CPM

Main Readings :

Supplementary Readings :