

Mathematics – II : Operation Research

Unit : I

Definition of the term Operation Research – Different Phases of O.R.
Advantages and Limitations of O.R. Standard Linear Programming –
Formulation of a Linear Programming Solving L.P.P. by Graphical Method
Problem.

Unit : II

Simplex Method – Transportation Model Problems – Assignment Problem.

Unit : III

PERT/CPM – Networks – Duration Schedule – Probabilistic Decisions.

Unit : IV

Inventory – Models – Wilson’s Model – Purchasing Model with shortage and
without shortage – (Problems only)

Unit : V

Sequencing Problems – Processing ‘n’ jobs through two machines – Travelling
Salesman Problems as an application of Sequencing.

Text Books

“Operation Research”, by Kanthiswarup, Gupta, Manmohan – Sultan chand
and sons, Educational Publishers, New Delhi, 1996.

Reference Books

1. “Operation Research”, by s.Daranivenkatakrishnan Keerthi Publishing
House 1997.
2. “Operation Research”, by H.A.Taha Prentice Hall of India Ltd 1998.
3. “Operation Research”, by S.D.Sharma Kedar nath Ramnath and co
(Publishers) 1997