

OPERATIONS RESEARCH



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OPERATIONS RESEARCH

UNIT-I:

Introduction to OR- Origin-Nature- Definitions-Techniques of OR- Business applications of OR- Linear Programming (LPP)- Formulation of LPP- Solution by the Graphical Method.

UNIT-II:

LPP - Simplex Method - Big M Method - Two Phase Method - Solution to LPP problems for Maximization and Minimization Cases-Degeneracy - Concept of Duality.

UNIT-III:

Transportation Problem (TP) - IBFS using Northwest Corner Method-Least Cost Entry Method (LCM) and Vogel's Approximation Method (VAM) - Unbalanced TP- Degeneracy- Optimality Test using MODI method and SSM- Business applications of TP.

UNIT-IV:

Assignment Problem (AP): Optimal Solution- Hungarian Method- Unbalanced AP- Restricted AP-Travelling salesman problem- Business applications of AP- Simulation- Process of simulation-Applications of simulation to different management Problems- Waiting Line Simulation Model-Inventory Simulation Model.

UNIT-V:

Waiting Lines - Concepts of Queue/Waiting Line- Basic structure of Queuing Models- Kendall-Lee Notations - Operating characteristics of Queue System - Cost Associated with Queuing - Single Channel Queuing model with Poisson Arrivals and Exponential Service rate

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