

# MANAGEMENT SCIENCE



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**Description**

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**MANAGEMENT SCIENCE**

## **UNIT-I**

Management Science - Basic concepts and its role in decision-making. Linear programming: meaning, scope & assumptions, Formulation of linear programming problem & solution by graphical & Simplex methods and some special cases.

## **UNIT-II**

Duality and Sensitivity analysis: change in objective function coefficient and availability of resources with simplex method. Transportation - Some special cases like maximization, unbalanced problems, degeneracy in transportation models, Assignment models (HAM).

## **UNIT-III**

Queuing theory (single channel poisson arrivals with exponential service time, infinite population model); Inventory management techniques (Deterministic Model), special techniques of inventory management; PERT/CPM - Network analysis, determining the critical path, calculation of float.

## **UNIT-IV**

Game theory: Pure and mixed games, dominance and graphical method. Decision theory: one stage and multi stage decision trees; Introduction to Integer programming, Goal programming, Dynamic programming.