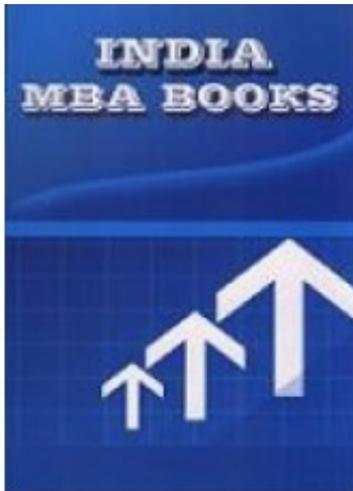


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PREVIEW OF CHAPTERS SYLLABUS

OPERATIONS RESEARCH

Objective: To make the students familiar with operations research tools in the business decision making.

UNIT-I : Introduction – Define Operations Research – Significance of OR -Nature of OR –

Characteristics OR -Scope of OR in Management – Types of Models in OR – Methodology of

OR - Linear Programming - Definition – Assumptions in LP Models – Applications of LP –

Limitations of LP models – Graphical Method – Canonical and Standard Forms of LPP –

Simplex Method – Big-M Method – Two Phase Simplex Method – Duality – Dual Simplex Method.

UNIT-II : Transportation Models – Northwest Corner Method – Least Cost Method – Vogel's

Approximation Method – Test for Optimality using MODI method – Assignment Models –

Hungarian Methods-Minimisation – Maximisation –Travelling Salesman Problem.

UNIT-III : Game Theory – Game – Value of the Game –Saddle Point – Two Person Zero Sum

Game – Pure Strategy – Mixed Strategy – Rule of Dominance – Graphical Methods – $2 \times n$ –

- $m \times 2$ – Method of Matrices approach – Method of LPP – Simulation – Event Type Simulation

- Queing Problem – Job Sequencing Problem.

UNIT-IV : Decision Theory - Types of Decision Making Environments – Maximax Criterion –

Wald Criterion –Savage Criterion – Hurwicz Criterion – Baye's Criterion –Expected Monetary

Value Criterion – Expected Opportunity Loss Criterion –Expected Value of Perfect Information

–Decision Tree Analysis(including problems) - Queing Theory- M/M/1 , M/M/c Models only.

UNIT-V : Dynamic Programming – Capital Budgeting Problem – Product Allocation Problem – Shortest Path Problem – Assignment Problem – Network Analysis – Critical Path Method – Project Evaluation and Review Technique – Crashing

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