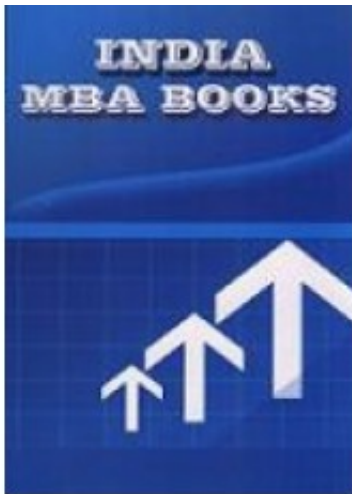


# OPERATIONS RESEARCH



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## **Description**

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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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