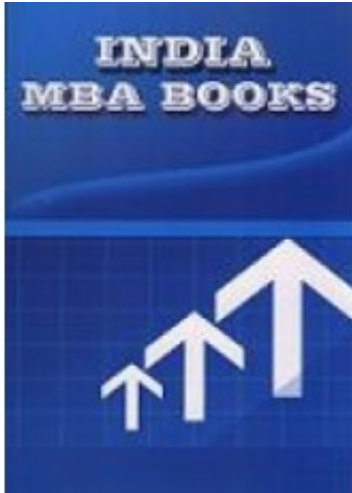


# OPERATIONS RESEARCH



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### **CORE COURSE –XI – OPERATIONS RESEARCH**

#### **Unit I**

Introduction to Operations Research – Origin and development of operations research - Application of operations research in functional areas of management- Modelling in operations research – Classification of models – Opportunities and shortcomings of operations research.

#### **Unit II**

Linear programming – Basic assumptions – Mathematical formulation of the problem – Graphical solution method – Simplex method for solving maximisation problems.

#### **Unit III**

Transportation Problem – Initial Basic Feasible Solution – North West Corner Rule, Least Cost Method and Vogel's Approximation Method – Optimal solution using Modi Method – Degeneracy in transportation problem - Unbalanced transportation problem - Assignment problem – Hungarian method – Special cases in assignment problem.

#### **Unit IV**

Dynamic Programming – Characteristics – Dynamic programming algorithm - Game theory – Two person zero sum games – Basic terms - Pure and Mixed Strategy – Dominance Rule – Graphical Solution method.

#### **Unit V**

Queuing Theory – Elements of a queueing system - Single Channel Unlimited Queue Model and Multiple Channel Unlimited Queue Model. Simulation – Process of Simulation – Monte Carlo Method

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