

Operations Research (OR)

Course Outline

Overview: definition and history of OR. Introduction to linear programming: Formulation of LP model, Matrix form, Canonical form, Standard form, Graphical solution of two variables, Simplex method, Row operations, Gaussian elimination, Duality theory: Primal and dual form, Transportation problems, Assignment problems, Network programming, Queuing Models, Introduction to CPM and PERT techniques, Inventory control models.

Recommended Book

Quantitative Analysis for Management by Barry Render, Ralph Stair & Michael E. Hanna.

Reference Books

- *Operations Research* by Hamdi A. Taha.
- *Operations research an introduction* by Saeed Akhtar Bhatti & Naeem Akhtar Bhatti.
- *Operations Research* by Prem Kumar Gupta & D. S. Hira.
- *Operations Research Models and Methods* by Paul A Jensen.
- *Linear Programming* by S. I. Gass.
- *Introduction to Operations Research* by Hillier, F. S. & Gerald, J. Lieberman.

Different Names of Operations Research (OR)

- Operations Research (USA)
- Operational Analysis (British)
- Operational Research
- Operational Management
- Management Sciences

What is Operations Research

Operations Research is an interdisciplinary branch of applied mathematics and formal science that uses methods such as mathematical modeling, statistics, and algorithms to arrive at optimal or near optimal solutions to complex problems. It is typically concerned with optimizing the maxima (profit, assembly line performance, crop yield etc.) or minima (loss, risk, etc.) of some objective function. Operations research helps management achieve its goals using scientific methods.

Operations Research is a scientific approach to the management of systems usually involving the allocation of limited resources. A quantitative model of the system is developed with the objectives of prediction, control or optimization.

Notes On Operations Research

**Massachusetts Institute of
Technology. Operations Research
Center**



Notes On Operations Research:

Notes on Operations Research, 1962 Notes on Operations Research, Assembled by the Operations Research Center, M. I. T Massachusetts Institute of Technology. Operations Research Center, 1959 **Notes on Operations Research 1959** Massachusetts Institute of Technology. Operations Research Center, 1959 **Notes on Operations Research, 1959** Operations Research Center, M.I.T., 1959-06-30 Lectures on operations research and its use of probability theory **Notes on operations research** Michigan University. Operation Research Center, 1962 **Notes on Operations Research, 1959** Operations Research Center Mit, 2003-02-01 Lectures on operations research and its use of probability theory **A First Course in Operations Research** Giuseppe Lancia, 2019-09-27 The book is intended for a first course on Operations Research at the Graduate Level for students of computer science engineering or scientific disciplines in general The book is based on the lecture notes of the course taught at the University of Udine to master students in CS A good part of the text is devoted to formulating mathematical models for combinatorial optimization problems by stating them as integer linear programs The theory of Linear Programming and Integer Programming is described at an introductory level The second part of the course deals with optimization problems on graphs such as minimum spanning trees shortest paths and maximum flows The book contains appendices on Graph Theory Computational Complexity and Linear Algebra **Notes on Operations Research, 1959** Massachusetts Institute Of Technology, Operations Research Center, 2013-05 Contributing Authors Include George P Wadsworth Bernard O Koopman Herbert P Galliher And Others **Notes on Operations Research** Massachusetts Institute of Technology. Operations Research Center, 1962 Notes from MIT Summer Course on Operations Research, June 16-July 3, 1953 Massachusetts Institute of Technology, 1953

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