

BS (4 Years) for Affiliated Colleges



Code	Subject Title	Cr. Hrs	Semester
MATH-428	Operations Research - II	3	VIII
Year	Discipline		
4	Mathematics		

Objectives:

- Shortest-Route algorithms for acyclic networks
- Maximal-flow problem
- Matrix definition of LP problem
- Revised simplex method, bounded variables
- Decomposition algorithm
- Parametric linear programming
- Applications of integer programming
- Cutting-plane algorithms
- Branch-and-bound method
- Zero-one implicit enumeration
- Elements of dynamic programming
- Problem of dimensionality
- Programmes by dynamic programming

Recommended Books:

- Hamdy A. Taha, Operations Research-An Introduction, (Macmillan Publishing Company Inc., New York, 1987)
- B. E. Gillett, Introduction to Operations Research , (Tata McGraw Hill Publishing Company Ltd., New Delhi)
- F. S. Hillier and G. J. Liebraman, Operations Research, (CBS Publishers and Distributors, New Delhi, 1974)
- C. M. Harvey, Operations Research, (North Holland, New Delhi, 1979)