

**OPTIMIZATION TECHNIQUES**

**UNIT I**

Integer programming

**UNIT II**

Dynamic (Multistage) programming,

**UNIT III**

Decision Theory and Games.

**UNIT IV**

Inventory Models.

**UNIT V**

Non-Linear Programming algorithms.

**TEXT BOOK(S)**

- [1] Hamdy A. Taha, Operations Research (7<sup>th</sup> Edn.), McGraw Hill Publications, New Delhi.

UNIT I	Sections 8.1 to 8.5
UNIT II	Sections 9.1 to 9.5
UNIT III	Sections 11.1 to 11.4
UNIT IV	Sections 13.1 to 13.4
UNIT V	Sections 19.1 and 19.2.

**REFERENCE(S)**

- [1] O.L. Mangasarian, Non Linear Programming, McGraw Hill, New York.  
[2] Mokther S. Bazaraa and C.M. Shetty, Non Linear Programming, Theory and Algorithms, Willy, New York.  
[3] Prem Kumar Gupta and D.S. Hira, Operations Research : An Introduction, S. Chand and Co., Ltd. New Delhi,  
[4] S.S. Rao, Optimization Theory and Applications, Wiley Eastern Limited, New Delhi.