

## **MAM 2402 OPERATIONS RESEARCH**

- UNIT – I**      Model Formulation, Graphical Method Solution, Simplex Method, Theory of Simplex Method (Chapters 2,3, 24 and 4 of Text 1)
- UNIT – II**      The revised simplex method, Duality Theory and its Applications, Dual Simplex Method, Sensitivity Analysis in Linear Programming (Chapter 4 – 4.1, 4.2, 4.3, 4.4 of Text 2)
- UNIT – III**      Transportation problem, Assignment Problem (Chapters 8 & 9 of text 1)
- UNIT – IV**      Integer Linear Programming, Theory of Games (Chapters 7 & 11 of Text 1)
- UNIT – V**      Non-Linear and Dynamic Programming (Chapters 6 & 7 of Text 3)

### **TEXT BOOK**

- [1]      J.K. Sharma – Operations Research - Theory and Applications MACMILLAN INDIA Ltd.
- [2]      A.Ravindran, Don.T.Philips, James J. Soleberg – Operations Research, Principles and Practice John Wiley and Sons (3<sup>rd</sup> Edn.)
- [3]      K.V. Mittal and C.Mohan – Optimisation Methods (3<sup>rd</sup> Edn) New Age International (1996)

### **REFERENCE**

G. Hadley – Linear Programming (Addison Wesley)

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