

TME-601
OPERATIONS RESEARCH

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Unit-I	3 1 0
Linear Programming- Introduction & Scope, Problem formulation, Simplex methods, primal & dual problem sensitivity analysis.	8
Unit-II	
Transportation & Assignment problems.	4
Dynamic Programming- Multistage decision problems & solution, Principle of optimality.	4
Unit-III	
Decision theory- Decision under various conditions.	4
Game Theory- Minimax & maximum strategies. Application of linear programming.	4
Unit-IV	
Stochastic inventory models- Single & multi period models with continuous & discrete demands, Service level & reorder policy	8
Unit-V	
Simulations- Simulation V/S mathematical modeling, Monte carlo simulation, simulation languages, Example & cases.	4
Queing models- Introduction Model types, M.M. 1 & M/M/S system cost consideration	4

Text Books

- Operations Research by : Wangner
- Production Planning of Operation Management : by Buffa.
- Optimization Techniques by : S.S. Rao.
- Operations Research by : Taha