

## **Optimization Techniques**

Single and Multivariable optimization methods, constrained optimization methods, Kuhn –Tucker conditions-Necessary & sufficiency theorems.

Linear programming-Traveling salesman problem and Transshipment problems -post optimization analysis. Integer programming-All integer, Mixed integer and zero -one programming. Geometric programming - concept - degree of difficulty - solution of unconstrained & constrained non linear problems by geometric programming.

Dynamic programming.

### **REFERENCES :**

1. K. Deb, "Optimization for Engineering Design", Prentice Hall of India, 1995.
2. S.S. Roa, "Optimization Theory And Application", Wiley Easter, 198 4.
3. Reklaitis G.V., Ravindram A., Ragsdell K.M., "Engineering Optimization - Methods & Application", Wiley, 1983.