

SYLLABUS :-

Prerequisite: Operations Research Formulation of multi-objective (linear and non-linear programming) problems and related terms, dominated and non-dominated solutions. Goal programming - Graphical method, sequential goal programming method, multiphase simplex method. Fuzzy programming, vector maximum and vector minimum problems, linear and non-linear membership functions, compromise solutions, utility function method, weighting method. Analytic hierarchy process, ranking method, surrogate worth trade off method, step method, e-constrained method, global criterion method, group decision making. Applications of multi-objective programming to some real-world problems.