MTH 312 OPTIMIZATION THEORY: (4 Units) (L45 PO: TIS)

Linear programming models. The simplex Method: formulation and theory. Quality integer programming; Transportation problem. Two-person zero-sum games. Nonlinear programming: quadratic programming Kuhn-tucker methods. Optimality criteria. Simple variable optimization. Multivariable techniques. Gradient methods. **MTH** 201, 202, 302, 303.