MCA (4th Semester)
Course: 040010404- Computer Oriented Operations Research Methods
Self Creation Parameter

Do implementation of following Operations Research Methods.

1. Given the Linear Programming Problem for Maximization case, find its optimal solution by Simplex Method.
2. Given the Linear Programming Problem for Minimization case, find its optimal solution by Simplex Method (Big-M Method).
3. Given the Linear Programming problem convert it into Matrix form.
4. Given the transportation problem, find Initial Basic feasible Solution (Vogel’s Approximation Method).
5. Testing for Optimality and finding Optimum solution by Modi Method.
6. Given the assignment problem, solve by Hungarian Method.
7. Given Two-Person Zero-Sum game matrix, find the optimal strategy.
8. For the given payoff matrix Determine saddle point and solve.
9. For the given n jobs, determine through two Machines.
10. Scheduling of two jobs through m Machines.
12. Monte Carlo Simulation.
13. Simulation for given PERT Network.

References books:
3. Shah, Gor, Soni, Operations Research, PHI.