

Management Science Lab

(B. Tech. – Production Engineering)

List of Experiments for Management Science Lab

1. Operation simulation of a serial supply chain using Supply Chain Role Play Game (SCRPG) software package
2. Performance analysis of a four-echelon supply chain under order up to level inventory policy using Supply Chain Inventory Policy Analyser (SCIPA) software packages
3. Problem formulation, and solution & sensitivity analysis using LINGO
4. Simulation exercise using ARENA and WITNESS
5. Construction of X-bar and R Chart
6. Preparation of material plan and schedule on rolling horizon basis for components of an end item using MNMRP package
7. Design of process layout for the given problem
8. Preparation of assembly chart and product structure, and MRP planning
9. Learning curve