

**SARDAR PATEL UNIVERSITY,
VALLABH VIDYANAGAR
BBA-(ISM) PROGRAMME
SEMESTER-II
Syllabus with effect from: Nov./Dec. 2019**

Paper Code: UM02DBBS52		Total Credits: 3
Title Of Paper: Quantitative Techniques		
Unit	Description in detail	Weightage (%)
1	linear programming Lpp: Definition meaning assumption limitations users mathematical form terminology (constraints, objective, function, solution, feasible solution) Methods of solving lpp: Graphical Simplex (using only slack variables) (Word problem are omitted)	25 %
2	Transportation and assignment problems t.p. mathematical form Methods for obtaining initial basic feasible solution <ul style="list-style-type: none"> • n.w corner method • matrix minima method • Vogel's approximations method unbalanced t.p assignment problem mathematical form Hungarian method to solve maximization and minimization problem Unbalanced assignment problem	25 %
3	Theory of games Meaning of the term "GAME" Types of game Value to game Saddle point Game problem of mixed strategy Solution of 2xs and mX2 games using graphical method Solutions of mXn games using dominance rule Limitation of theory of games	25 %
4	Statically quality control Sqc meaning uses Variation in quality Example based on charts for variable (X and r charts) And charts for attributes (P, np and c charts) Difference between variable charts and attribute charts. Difference between p and np charts Note: 20% theory and 80% example	25 %

Reference books

- 1) quantities technique s in management et by n.d.vahora the mc grow hill company (3rd edition)
- 2) Quantitative techniques by c.r.kotharivikas publications house pvt. Ltd.(3rd edition)
- 3) statistic for management by k.k. Sharma