

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc (Mathematics)
Semester: IV
Syllabus with Effect from: November-2013

Paper Code: PS04EMTH30	Total Credit: 4
Title Of Paper: Operations Research	

Unit	Description in detail	Weighting (%)
I	Introduction to linear programming, LP model, Graphical solution and sensitivity analysis, simplex method, basic solutions, artificial starting solution.	25%
II	Degeneracy, alternative optima, duality, dual problem, economic interpretation.	25%
III	Dual simplex method, transportation models and assignment models and applications.	25%
IV	Non-linear programming; and applications.	25%

Basic Text & Reference Books:-

- Hamdy and Tahia: Operations Research, an introduction , Prentice-Hall, 1997.

