

SARDAR PATEL UNIVERSITY
Programme & Subject: M.A (Economics)
Semester: III
Syllabus with Effect from: June - 2014

Paper Code: PA03CECO03	Total Credit: 4
Title Of Paper: Quantitative Economics	

Unit	Description in detail	Weightage (%)
I	Concept and their application in Economic Analysis of; (a.) Economic Model (b)Diagram (c) Equation- its types (d) Function – its types and (f.) Inequality – Linear programming and it's Graphical solution.	30
II	Elements of Matrix, Algebra and their application in Economic Analysis; Cramer's Rule; Inverse Matrix; Leontief Input- Output Analysis.	20
III	Set Theory: Types of Sets, Venn Diagrams; Elements of Probability– Laws of Probability, Random Variable, Mathematical Expectation – Property of Binomial and Normal Distribution.	20
IV	Method of Data Collection and Presentation of Data; Frequency Distribution; Measures of Central Tendency- Measures of Dispersion and their Application in Economics Analysis. Lorenz Curve.	30

Basic Text & Reference Books:-

- Ching A C; Fundamental Methods of Mathematical Economics, Mcgraw Hills, New York.
- Gupta S C; Fundamental of Applied Statistics. S. Chand & Sons, New Delhi.
- Grewal P S; Numerical Methods of Statistical Analysis, S P Pvt. Ltd., New Delhi.
- Bose D.; An Introduction to Mathematical Economics, H P H. Bombay, Delhi.
- Gupta C.B.; An Introduction to Statistical Methods, Delhi.
- Dave M.B & Dr. Pandya K, Quantitative Methods of Economics, Popular, Surat (Gujarati)
- Patel R.K. & Patel L.B.; Business Statistic, C. Jamanadas Co. Ahmedabad.
- Patel Balubhai; Dhandhakiya Ankadashastra, Uni. Granthnirman Board, Ahmedabad.
- Zala M.L.; Arthshastrama Ganitshastra, Purbiti Prakashan, Vallabh Vidyanagar.
- Dr. Jaiswal M.C.; Arthvishayak Ankadashastra, Uni. Granthnirman Board, Ahmedabad.

