SARDAR PATEL UNIVERSITY

Programme & Subject: M.A (Economics)

Semester: IV

Syllabus with Effect from: June - 2014

Paper Code: PA04CECO03	Total Credit: 4
Title Of Paper: Quantitative Economics	Total Credit: 4

Unit	Description in detail	Weightage (%)
I	Elements of Differential Calculus and their utility in Economic Analysis.	
	Such as establishment of relationship between AR & MR; AC & MC;	
	AR, MR & Elasticity; Optimisation conditions; Estimation of Elasticity &	30
	Marginal Value etc. Meaning of Differential Derivative, Rules of	30
	Differentiation, Second order Derivative, Partial Derivative, Total	
	Derivative, Total Differential and their utility in Economic Theory.	
II	Simple Correlation: types of Correlation, Scatter Diagrams,	
	Coefficient of Correlation – Product Moment Method and Rank Correlation	25
	Method, Probable Error and Explanation of Co-Efficient of Correlation, And	23
	Its Application in Economics.	
III	Regression and its Application in Economic Analysis. Relationship	25
	between Attributes	
IV	Index Numbers, Importance, Utilisation of Index Numbers in Economic	
	Analysis, Problems in Construction of Index Numbers, Methods of	20
	Construction of various type Of Index Numbers.	

Basic Text & Reference Books:-

- > Ching A C; Fundamental Methods of Mathematical Economics Mcgraw Hills, New York.
- > Gupta S C; Fundamentals of Applied Statistics. S. Chand & Sons. New Delhi.
- Forewal 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
- ➤ 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.

