SARDAR PATEL UNIVERSITY

Programme: BBA (GENERAL)

Semester: II

Syllabus with Effect from: Nov./Dec., 2019

Paper Code: UM01DBBA52	Total Credit:3
Title of paper: BUSINESS MATHEMATICS – II	10tal Credit:5

UNIT	DESCREIPTION	WEIGHTAGE
1	Permutations and Combinations	25%
	Meaning, Fundamental principle of counting,	25 /6
	Theorem based (without proof) on permutation and combination,	
	Permutations of things not all different,	
	Permutations when repetition is allowed, Circular permutations, Examples of	
	permutation and combination.	
2	Co-ordinate Geometry	25%
	Cartesian Co-Ordinate System,	
	Distance between two points, Slope of line, Area of triangle, slopes of	
	Parallel and perpendicular lines,	
	Equations of a line for:	
	-Two Point Form -Point slope form	
	-Intercept form -Two intercept form	
3	Linear Programming Problem	25%
	-LPP: Meaning, nature, limitations of LP, Uses of LP, Definitions: solution,	
	constraints, BFS, FS, Objective functions	
	Solution of LPP by Graphical Method	
	-Transportation Problem- N-W corner rule, Matrix Minima Method, Vogel's	
	Approximation Method (including unbalanced problem)	
4	Derivatives and Applications of derivatives	25%
	Derivatives of explicit, composite and implicit functions, Derivatives of	
	exponential and arithmetic functions,	
	Rules of differentiation(without proof),	
	Higher order derivatives	
	maxima and minima of a function in economic	
	Theory (demand, supply, consumption, revenue and cost function)	

Reference Books:

- (1) Sancheti& Kapoor: Statistics: Theory, Methods and Applications, Sultan Chand & sons,New Delhi
- (2) Kapoor, V.K.: Business Mathematics, Sultan Chand and sons, New Delhi.
- (3) Soni, R.S.: Business Mathematics, Pitamber publishing House.
- (4) Vohra N.D.: Quantitative Techniques in Management, Tata McGraw Hill, New Delhi.