SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)
Syllabus with effect from the Academic Year 2021-2022

BBA - (GENERAL)
SEMESTER- II

Course Code	UM02DBBA72	Title of the Course	BUSINESS MATHEMATICS-II
Total Credits of the Course	03	Hours per Week	03

	Course Content	

	Course Objectives	1 To develop and enhance analytical ability in students for processing and interpreting statistical data. 2 To familiarize students with applications of Mathematical and Statistical methods in business management decision making problems

Course Content

Unit	Description	Weightage* (%)
1.	**Interpolation And Extrapolation:** • Meaning of Interpolation and Extrapolation, Assumptions , Importance and uses • of Interpolation and Extrapolation , Operators Δ ,E and D (without proof), • Methods of Interpolation and Extrapolation; • 1. Newton's method 2. Binomial expansion method • 3. Lagrange's method, Simple examples on this methods	25%
2.	**Linear Programming Problem** -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)	25%
3.	**Assignment and Replacement theory** Definition of assignments and replacement problems with examples. Methods of solving problems of assignments and replacements theory with simple examples. Hungarian method and application of it with examples	25%
4.	**Co-ordinate Geometry** Cartesian Co-Ordinate System, Distance between two points, Slope of line, Area of triangle,	25%

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	slopes of Parallel and perpendicular lines, Equations of a line for : -Two Point Form -Point slope form -Intercept form -Two intercept form	

Teaching-Learning Methodology	**Lectures, Assignments, Quiz and Seminars**

Evaluation Pattern		
Sr. No.	**Details of the Evaluation**	**Weightage**
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Analyze and interpret mathematical and statistical methods and develop and enhance analytical ability for processing and interpreting statistical data.
2.	Apply Mathematical and Statistical methods in business management decision making problems

Suggested References:	
Sr. No.	**References**
1.	(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.

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Online resources: https://youtu.be/Dstf6uzWcY4?list=PLFClNVOTycUW5YpwtaTnV2x

https://youtu.be/DY3AEUdznwc?list=PLFClNVOTycUW5YpwtaTnV2x

https://youtu.be/VM3_86Algkw?list=PLFClNVOTycUW5YpwtaTnV2x-NJCZVnulG

https://youtu.be/owsh077YeVA?list=PLFClNVOTycUW5YpwtaTnV2x-NJCZVnulG

https://youtu.be/vTM-EE9EyV8?list=PLFClNVOTycUW5YpwtaTnV2x-NJCZVnulG

https://youtu.be/jpRMMBFzPjY?list=PLFClNVOTycUW5YpwtaTnV2x-NJCZVnulG

https://youtu.be/-AgOoFeccRU?list=PLFClNVOTycUW5YpwtaTnV2x-NJCZVnulG

https://www.youtube.com/watch?v=duZ4MVh5VX0&list=PLFClNVOTycUXOnNYGc

https://youtu.be/duZ4MVh5VX0?list=PLFClNVOTycUXOnNYGc70DheoGDqnU8ufA

https://youtu.be/0Fddg6iyZFM?list=PLFClNVOTycUXOnNYGc70DheoGDqnU8ufA

https://youtu.be/0Fddg6iyZFM?list=PLFClNVOTycUXOnNYGc70DheoGDqnU8ufA

https://youtu.be/0h8Cf3TAvIc?list=PLFClNVOTycUXOnNYGc70DheoGDqnU8ufA

https://youtu.be/0h8Cf3TAvIc?list=PLFClNVOTycUXOnNYGc70DheoGDqnU8ufA

https://youtu.be/t4zGxq_Uv5E?list=PLFClNVOTycUXOnNYGc70DheoGDqnU8ufA

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