

BUS 1.2 QUANTITATIVE METHODS

Lectures	:	5 periods/week	Sessional Marks	:	20
University Exam	:	3 hours	University Examination Marks	:	80

UNIT-I: ***Progressions, Limits, Differentiation and Integration:***
Progressions, A.P.,G.P., Limits, Differentiation, Maxima and Minima of one variable and simple applications (without trigonometry back ground), Integration and simple applications (without trigonometry back ground).

UNIT-II: ***Binomial Theorem and Probability:***
Binomial theorem, Permutations, Combinations, Concept of Probability, Addition and Multiplication theorems of Probability, Baye's theorem and its applications.

UNIT-III: ***Theoretical Distributions:***
Binomial, Poisson and Normal distributions and their simple applications.

UNIT-IV: ***Testing of hypothesis:*** Z-test, t-test and Chi-square test.

UNIT-V: ***Correlation, Regression and Time series:***
Simple correlation, Rank correlation and simple regression, Time series, Components of time series, Measurement of Trend (straight line by method of least squares).

Suggested Books:

1. *K.V.Sivaih & K.Satya Rao , Business Mathematics*, S.Chand & Company, New Delhi.
2. Vohra N.D., *Quantitative Techniques in Mangement*, Tata McGraw Hill, New Delhi.
3. Misra,*Quantitative Techniques for Management*,Excel Books,New Delhi.
4. D.C.Sancheti and V.K.Kapoor, *Business Mathematics*, Sultan Chand , New Delhi.
5. S.C.Gupta, *Business Statistics*, Himalaya Publishing House, Bombay.
6. K.Chandra Sekhar, *Business of Statistics*.
7. K.V.Sarma, *Statistics Made Simple*, Prentice Hall of India.
8. Sharma, *Quantitative techniques for Managerial Decisions*, McMillan India Ltd., Chennai, 2006.
9. Levin, Krehbiel and Berenson, *Business Statistics: A first Course*, Pearson Education Asia.
10. Nagar, Das, *Basic Statistics*, Oxford University Press.