



Autonomous (2016-17)

Malad Kandivli Education Society's
NAGINDAS KHANDWALA COLLEGE

**OF COMMERCE, ARTS & MANAGEMENT STUDIES
AND SHANTABEN NAGINDAS KHANDWALA COLLEGE OF SCIENCE**

(Re-accredited (3rd cycle) by NAAC with 'A' Grade)

ISO 9001 : 2015 Certified

Educational Excellence Award By Indus Foundation, U.S.A.

IMC Ramkrishna Bajaj National Quality Commendation Certificate

Syllabus Along With Course Objectives

And

Outcomes Of The Value Added Courses Offered.

**DR. (MRS.) ANCY JOSE
PRINCIPAL**





Nagindas Khandwala College

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Name of the STC – Certificate in Methods of Quantitative Techniques

- *Number of Credits – 2*
- *Students who complete the Course, it will be written as ‘Successfully Completed.’ There will be no grades awarded.*

Objectives of course:

The main objective of this course is to introduce quantitative techniques to undergraduate students of commerce, arts and management studies so that they can use them in the field of research and industry.

Course Outcome:

After completion of this course the learner will be able to:

CO 1: Learners will be able to distinguish between measures of dispersion. (Level: Analysis)

CO 2: Learners will be able to apply various statistics concept like sampling, central tendencies and dispersions. (Level: Apply)

Syllabus

Course: Quantative Techniques - I

Unit I: INTRODUCTION TO STATISTICS

Meaning, use and limitations of statistics; concept of population sample, variate, attribute, statistic, parameter; Primary and secondary data ;sampling techniques.

Unit II: measures of central tendency and locations:

Definition of Average, Types of Averages: Arithmetic Mean, Median, and Mode for grouped as

well as ungrouped data. Quartiles, Deciles and Percentiles. Diagrams and graphs: Ogives and Histogram.

Unit III: Measures of Dispersions:

Concept and idea of dispersion. Various measures: Range, Quartile Deviation, Mean Deviation,

Standard Deviation, Variance, skewness and kurtosis.

Unit IV: Bivariate linear Correlation, Regression and time series analysis.

(a) Correlation analysis: Meaning, Types of Correlation, Determination of Correlation Scattered diagram, Karl Pearson's Method of Correlation Coefficient(excluding Bivariate Frequency Distribution Table) and Speannan rank correlation coefficient.

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(b) Regression Analysis : Meaning, Concept of Regression equation, Regression Coefficient (excluding Bivariate Frequency Distribution Table), Relationship between Coefficient of Correlation & Regression Coefficients, finding the equation of regression lines by method of Least Squares.

(c) Time Series analysis: Concepts and components of time series. Estimation of Trend using moving average method and Least Squares method (linear trend only). Concept of Forecasting using least square method.

Unit V: computer application and practical on quantitative techniques

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