

H.N.G.UNIVERSITY PATAN
S.Y.B.A. Semester : 4 Economics
Core Compulsory. 210 –C (Main-Optional)
Quantitative Techniques -2

Objective:-The main objective of this paper is to train the students to use the techniques of mathematical and statistical analysis, which are commonly applied to understand and analyze economic problem.

Unit 1 Central Tendency:

Measures of Central Tendency, mean, median, mode. Geometric mean and harmonic mean.

Unit 2 Dispersion:

Measures of dispersion: Range, Mean deviation, Quartile deviation, Standard deviation, coefficient of variation.

Unit 3 Time Series:

Meaning of time series, utility of study of time series, Analysis of time series, Components of time series, Trend, Seasonal and random components .

Unit 4 Index Number:

Meaning of Index number, Uses of Index number, construction of Index number, Laspeyres's, Paasche's and Fisher's Index number, Fisher's ideal index number, Limitations of Index number.

Basic Reading:-

1. Bhardwaj R.S., Business statistics, Excel Books, New Delhi.
2. Business statistics, Sudhir Prakashan, Ahmedabad.
3. Allen R.G.D., Mathematical Analysis for Economists, Macmillan Press And ELBS, London.
4. Chiang A.C., Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
5. Asthana B.N., Elements of Statistics, S, Chand & co Ltd. New Delhi.