

**H.N.G.UNIVERSITY PATAN**  
**S.Y.B.A. Semester : 3 ECONOMICS Investigation - 1**  
**Core Compulsory. 207 – D (Main- Optional)**  
**Investigation - 1**

**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** Statistics:

Meaning and definition of statistics; Function, importance, limitation and distrust of statistics.

**Unit. 2** census and sample investigation :

Meaning of census and sample investigation , difference between census and sample investigation, characteristics of a good sample, advantages of sampling, simple random sampling, stratified random sampling, sampling with application.

**Unit.3** Collection of data.

Meaning of primary and secondary data, methods of primary data collection, sources of secondary data, characteristics of a good questionnaire, design of questionnaires :- study of socio economic survey.

**Unit. 4** Classification and tabulation of data

Meaning of classification and tabulation, types of classification and tabulation, diagrammatic presentation and graphic presentation, types of diagrams, advantages of diagrammatic presentation and graphic presentation, drawing histogram frequency polygon , frequency curve and cumulative frequency curve.

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.