

DEPARTMENT OF ECONOMICS
DELHI SCHOOL OF ECONOMICS
UNIVERSITY OF DELHI

Minutes of Meeting

Subject : B.A. (Prog.) 5th Semester SEC II
Course : Data Analysis
Date of Meeting : 6th September, 2017
Venue : Department of Economics, Delhi School of Economics
University of Delhi, Delhi – 110 007

Attended by :

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|-----------------------------|----------------------------------|
| 1. Meenakshi Sinha Swami | Mata Sundri College for Women |
| 2. Parul Jain | Sri Aurobindo College |
| 3. Apeksha Singh | Dyal Singh College |
| 4. Priyanka | Shivaji College |
| 5. Gunjan Fialok | Gargi College |
| 6. Gurdeep Kaur | Lakshmi Bai College |
| 7. Gunjan Agarwal | Delhi College of Arts & Commerce |
| 8. Hare Ram Sinha | Daulat Ram College |
| 9. Apra Sinha | ARSD College |
| 10. Suresh Kumar | Kalindi College |
| 11. Dinesh Kumar | Aryabhatta College |
| 12. Swagat Rout | Aruobindo College (E) |
| 13. Aniruddha Prasad | PGDAV (M) |
| 14. Pravin Prabhakar Shukla | PGDAV (E) |
| 15. B.B.Mohapatra | Maharaja Agrasen College |
| 16. Sunita Meena | Miranda House |
| 17. Abhishek | St.Stephens College |

Course Description

This course introduces the student to collection and presentation of data. It also discusses how data can be summarized and analysed for drawing statistical inferences. The students will be introduced to important data sources that are available and will also be trained in the use of free statistical software to analyse data.

Course Outline:

1. Sources of data. Population census versus sample surveys. Random sampling.
2. Univariate frequency distributions. Measures of central tendency: mean, median and mode; arithmetic, geometric and harmonic mean. Measures of dispersion, skewness and kurtosis.
3. Bivariate frequency distribution. Correlation and regression. Rank correlation.

4. Introduction to probability theory. Notions of random experiment, sample space, event, probability of an event. Conditional probability. Independence of events. Random variables and probability distributions. Binomial and normal distributions.
5. Estimation of population parameters from sample data. Unbiased estimators for population mean and variance.
6. Basics of index numbers: price and quantity index numbers.

Readings:

1. P.H. Karmel and M. Polasek (1978), Applied Statistics for Economists, 4th edition, Pitman.
2. H.R. Speegel, L.J. Stephens & N. Kumar (4th Edition), Schaum Series.
3. From Karmel & Polasek, Applied Statistics for Economists, 4th Edition
 - (i) Unit – I
Ch-6 Sample Surveys
 - (ii) Unit -2
Ch-3 Frequency distribution & Description
 - (iii) Unit-3
Ch-8 Correlation & Regression upto 8.4 (Derivation of β not to be tested).
 - (iv) Unit-4
Probability & Probability Distribution upto 4.10 & 4.13 (exclude 4.7).
 - (v) Unit -5
Ch-5 Sampling & Significance upto 5.5 & 5.9 & 5.10
 - (vi) Unit-6
Ch-11 Index no. S upto 11.7
4. From M.R. Spiegel, Stephens & Kumar ‘Statistics’ 4th edition
 - (i) Unit -2
Ch-3,4,5
 - (ii) Unit-3
Ch-14 (upto 14.7)
 - (iii) Unit-4
Ch-6 (upto 6.7)
Ch-7 (upto 7.4)
 - (iv) Unit-5
Ch-9 (upto 9.4)
Ch-10 (upto 10.5)

