

Research & P.G. Department of Economics
Sacred Heart College, Thevara
Value Added Course: Basics of Data Analysis with SPSS
Course Code: 15ECOVAC02

Duration of the course: 30 hours

Course coordinator: Dr. K V Raju

OBJECTIVES OF THE COURSE

- 01 *To introduce participants to the basic practice of statistics by using SPSS Statistics for data management and data analysis*
- 02 *To equip students to learn how to perform basic statistical analyses.*

Module 1: Introduction to IBM SPSS Statistics

About SPSS software, Data Preparation- Editing, Data View and Variable view; Data Processing- Data Editor, Data Defining, Data Entry; Data Editing- Go to case, Go to Variable, Insert Variable, Insert Case

Module II: Descriptive Statistics

Frequency Tables; Statistics for frequency tables- Mean, Mode, Median, Standard Deviation, Quartiles; Graphs and Charts; Cross tables; Statistics for Cross tables- Chi – Square, Correlations, Contingency, Coefficient, Phi and Cramer’s V, Lambda Gamma

Module III: Parametric Tests

Tests of Difference, Tests of Correlation, Analysis of Variance, Regression analysis

Module IV: Non Parametric tests

The Komogorov- Smirnov test, The Sigh test, Wilcoxon Matched- Pairs, Single- Ranks Test, The Mann- Whitney U test

References

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2. Brian S. Everitt and Sabine Landau. 2003. A Handbook of Statistical Analyses Using SPSS. CRC Press, Inc., USA.
3. Gaur, A. S., & Gaur, S. S. (2006). *Statistical methods for practice and research: A guide to data analysis using SPSS*. Sage.
4. Ho, R. (2006). *Handbook of univariate and multivariate data analysis and interpretation with SPSS*. CRC press.
5. Landau, S. (2004). *A handbook of statistical analyses using SPSS*. CRC.
6. Nie, N. H., Bent, D. H., & Hull, C. H. (1975). *SPSS: Statistical package for the social sciences* (Vol. 227). New York: McGraw-Hill.

7. Norris, G., Qureshi, F., Howitt, D., & Cramer, D. (2014). *Introduction to statistics with SPSS for social science*. Routledge.
8. Norušis, M. J. (2006). *SPSS 14.0 guide to data analysis*. Upper Saddle River, NJ: prentice hall.
9. Sweet, S. A., & Grace-Martin, K. (1999). *Data analysis with SPSS* (Vol. 1). Boston, MA: Allyn & Bacon.


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