



BS (4 Years) for Affiliated Colleges

Code	Subject Title	Cr. Hrs	Semester
APSY-366	Data Analysis using Statistical Package for Social Sciences (SPSS)	3	VI
Year	Discipline		
3	Applied Psychology		

Course Objectives

- The statistical analysis is an essential part of psychological research and students need to have a grasp over the concepts, theoretical rationale to use certain statistical analysis and also to learn the procedure to carry out these analyses.
- This course is designed to enhance their competence in using SPSS for data processing, entry, analysis and interpretation of output files and also to select and report analysis in form of table and be able to interpret the findings.

Course Outcome

After completion of the course the student will be able to:

- Process research data, prepare variable view file, enter data, and select appropriate analysis as per type of data and hypotheses been formulated.
- Interpret analysis output file, report results in form of tables and graphic form and interpret results in qualitative form in their research report, thesis and research article.

Course Contents

Introduction to Statistical Package for Social Sciences (SPSS)

Basic features of SPSS

Preparing Data for entering in SPSS

Preparing variable view file

Entering statistical data in data view file

Computing and recoding techniques

Calculating descriptive statistics (Including Mean, Median, Mode and Standard deviation)

Computing differences between two Means by t-test (Independent and matched samples)

Computing differences between Multiple Group using F-test (One-Way ANOVA)

Computing relationship between variables (Correlation)

Regression Analysis

Non parametric statistics

Spearman's Rank Order Correlation, Chi Square Test (Contingency Table and Proportions)

Yates Correction, Wilcoxon test, Mann Whitney -U test, Sign Rank test, Kruskal Wallis

The process and interpretation of SPSS output in form of table and graphical form per APA format.

Recommended Books

Bryman, A. (2011). *Quantitative data analysis with IBM SPSS 17, 18 and 19*. London: Routledge.

Coakes, S. J. (2010). *SPSS version 17.0 for windows*. Australia: John Wiley & Sons.

Field, A. (2009). *Discovering statistics using SPSS* (3rd ed.). Los Angeles: Sage.

Gelfand, H. (2010). *Mastering APA style* (6th ed.). Los Angeles: Sage.

Kinnear, P. R. (2010). *IBM SPSS statistics 18 made simple*. New York: Psychology press.

Maran, R. (1995). *Windows 95 simplified*. Foster City, C.A: IDG Books Worldwide, Inc.

Maran, R., & Wing, K. (1997). *Teach yourself word 97*. Foster City, C.A: IDG Books worldwide, Inc.

Nelson, K.Y. (1996). *Windows 95 is driving me crazy*. Berkeley, CA: Peach pit Press.

Person, R. (1993). *Using excel version 5 for windows*. Indianapolis: Que Corporation.

Rajathi, A., & Chandren, P. (2010). *SPSS for you*. India: MJM Publisher
