

Applied Data Analysis

SPSS Data Analysis

Nature of the course: Theory + Practical

Total hours per day: 2 hours

Course duration: 3 weeks

Course Summary

The course is designed for both beginning and advanced researchers who wish to learn about SPSS Data Analysis for the purpose of research. Any undergraduate and postgraduate level students/professionals from any background who want to study the practical approach to data analysis is welcome to take the course. There is no prior educational level need for this course; nonetheless, you should have strong convictions about what Data Analysis is and what you intend to achieve from it.

Completion Criteria

After fulfilling all of the following criteria, the student will be deemed to have finished the Module:

1. Has attended 90% of all classes held
2. Has received an average grade of 80% on all assignments
3. Has received an average of 60% in assessments
4. The tutor believes the student has grasped all of the concepts and is ready to go on to the second module.

Required Text Books

1. Discovering Statistics Using IBM SPSS Statistics
2. IBM SPSS Statistics 25 Step By Step: A Simple Guide And Reference
3. SPSS For Introductory And Intermediate Statistics: IBM SPSS For Intermediate Statistics

Course Details

WEEK 1

Introduction

- Data/Variable view
- Data entry models

Data management

- Select Cases
- Recode
- Compute
- Split File

- Sort Cases
- Replace Missing Values
- Merge Files (VRS)

Sampling concepts

- Questionnaire
- Multi-response
- Likert scale data (VRS)

WEEK 2

Basic Data Analysis

- Techniques
- Tables

Visualizing the Data

Mean and Proportion Test

WEEK 3

Data Analysis

- Categorical data analysis
- Likert scale

Relationships

- Regression
- Correlation

LABS

Lab assignments will focus on the practice and mastery of contents covered in the lectures; and introduce critical and fundamental problem-solving techniques to the students.

Learning Outcomes

- Learn how to use SPSS to analyze a variety of statistical processes.
- Comprehend how to interpret the results of a variety of statistical tests.
- Learn how to write statistical analysis results in APA format.