



SPSS STATISTICAL ANALYSIS FOR POSTGRADUATE STUDIES 3 & 10 November 2018

Introduction

This two-day workshop is specially designed for participants who are pursuing post-graduate studies at the Master's or Doctoral level. The workshop comprises 2 parts: Part 1: Fundamentals of statistical analysis and Part 2: Intermediate statistical analysis.

Part 1 provides participants with fundamental knowledge and skills on the concepts of variables, data file creation, hypothesis testing, statistical assumptions, sampling, and various statistical techniques such as descriptive statistics, t-test, one-way ANOVA, correlation, and reliability using SPSS Statistics.

Part 2 comprises statistical techniques such as ANCOVA, two-way ANOVA, multiple regression, factor analysis and nonparametric statistics tests. The emphasis will be the application of statistical procedures to research and statistical interpretation using the output generated by SPSS Statistics.

Learning Outcomes

At the end of the workshop, participants will be able to:

- Apply data analysis principles in postgraduate research
- Differentiate techniques used in quantitative data analyses at the postgraduate level
- Create the SPSS Statistics data input files
- Explore and clean quantitative data for analysis using SPSS Statistics
- Run quantitative data analysis using SPSS Statistics for descriptive and inferential statistics
- Interpret SPSS Statistics output and make inferences from the output generated

Key Topics

- Introduction to SPSS
- Creating the Data Input File using the SPSS Data Editor
- Exploratory Data Analysis
- Data Transformation
- Generating and Interpreting Statistical Output
- Testing Hypotheses and Making Inferences
- Multiple Regression in Postgraduate Research
- Factor Analysis in Postgraduate Research

Facilitator

Dr. Soon Seng Thah is the Deputy Director of the Educational Technology Division, Ministry of Education. Prior to this, he was the Head of the Research & Evaluation Sector, Educational Planning & Research Division (EPRD), Ministry of Education and training specialist at SEAMEO-INNOTECH. He is one of the team leads who developed the Malaysian Government Transformation Programme 2.0 and Malaysia Education Blueprint, 2013 - 2025. At present, he oversees the development of instructional technology programmes and materials for use in Malaysian schools and serves as the Programme Manager of the 1Bestarinet initiative, specifically the utilisation of Frog VLE among teachers and students. He has also conducted many research studies on educational policies, programmes, and ICT skill sets among teachers and students. In addition, Dr. Soon is an external examiner of master's and PhD theses at several local and foreign universities besides teaching research methodology, statistical analysis and supervising post-graduate students. Dr. Soon is a past President of the SPSS Users' Association and currently the Vice President of Advanced Analytics & SPSS Users' Association. He obtained his B.A. (Hons) and Dip. Ed. from the University of Malaya, M. Ed. from the University of the Philippines, and Ph.D in Instructional Technology from Universiti Sains Malaysia.