

OLSPS 



**DISSERTATION AND THESIS  
STATISTICS USING SPSS  
PRESENTED BY OLSPS**

## ABOUT THIS COURSE

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The dissertation is a significant piece of work students undertake on their postgraduate degree course. It possesses a great significance in the acquiring of the postgraduate degree. Furthermore, it is produced over some time and is this the only time when students have the opportunity for sustained one-on-one support from a supervisor.

While making the most of having one-on-one support from their supervisor, students find it difficult to conduct research, analyse their data and communicate their findings. Similarly, researchers writing conference papers or journal articles may experience the same difficulty. Guided by an SPSS expert, this 5-day course provides the theoretical knowledge and the practical skills to increase the student and researchers' ability to understand, interpret, and communicate their research findings.

“ Everything you need to complete your data analysis. ”

This course aids in developing an understanding of how the research question, theories, hypotheses, predictions, study design, and analysis of data interlinks and impact your research. Students will also benefit from learning about the main characteristics of statistical technique, the appropriate research design, and the main considerations as they work through the theory before moving on to conducting the test and interpreting the results.

The course emphasises a hands-on approach to learning data analysis skills and students will have an opportunity to apply the tools and techniques they learn. Students will also be introduced to SPSS Statistics and learn how it can be used to analyse data.



## THIS COURSE IS FOR YOU IF...

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- You have little or no knowledge of statistics and/or SPSS Statistics
- You are completing your honours, masters, or PhD dissertation
- You are an academic researcher with keen interests in sharpening your data analysis and statistical skills

## WHAT YOU'LL LEARN

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### CHAPTER 1

Introduction to statistical and research concepts including the necessary steps to select the appropriate statistical tests.

### CHAPTER 2

Explore the SPSS user interface and get started with measures of central tendency and dispersion.

### CHAPTER 3

Learn how to build statistical models and assess the model fit using parameters, standard errors, and confidence intervals.

### CHAPTER 4

Discover common misconceptions about statistical techniques and learn how to dispel them.

### CHAPTER 5

Explore data with graphs and learn how to use the SPSS graphing utility.

### CHAPTER 6

Learn how to do exploratory data analysis.

### CHAPTER 7

Compare parametric and non-parametric tests by identifying applications

### CHAPTER 8

Calculate and interpret the correlation between two variables determining the strength, direction, and significance.

### CHAPTER 9

Master the regression equation and learn how to interpret the slope of a line of best fit in the context of the data.

### CHAPTER 10

Test the difference between two sample means and learn what is represented by the null and alternative hypotheses.

### CHAPTER 11

Distinguish between one and two-factor analysis of variance tests, and between between-group and within-group variability.

### CHAPTER 12

Understand the terminology of factor analysis, including the interpretation of factor loadings, specific variances, and commonalities.

## REQUIREMENTS

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This course assumes that you have no prior knowledge on SPSS Statistics or descriptive statistics, but that you have a very basic grasp on mathematics and computers.

## SYSTEM REQUIREMENTS

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To complete this course you will need a computer with SPSS Statistics v27.0 installed, and you should be familiar with using a computer. You also need a minimum of 2GB free space on your hard drive.

