



**Institute of Mathematics and Management
Australia**

WORKSHOP IN APPLIED STATISTICS & RESEARCH METHODS

Basic Statistics, Correlation & Regression

In-Person & Online

**Venue: Mantra Parramatta, 1-3 Valentine Avenue
Parramatta , NSW 2150**

Workshop Dates : 15th & 16th January 2024

Introduction

Researchers across the world face numerous difficulties in conducting studies due to lack of knowledge in 'Statistics and Research Methods'. It is a hindrance for producing quality publications and research theses. This workshop is designed to develop essential skills related to the fields of: Biological & Physical Sciences; Medicine & Healthcare; Economics & Social Sciences, Management and more.

Who would benefit: Postgraduate students, Academicians and Researchers

Medium of Instructions: English

Duration: 2 Days

Registration Fee: Online - AUD 300

In - Person - AUD 800

Mode of Conduct: In-Person & Online (Zoom)

**Registration includes: A certificate of participation, Video of the workshop
and Teaching materials**

Workshop Outline

Day -1

Date	Time	Topic	Type
15 January (Monday)	09:00 -11:30	<ul style="list-style-type: none">• Types of Random Variables and Measurement Scales• Census vs. Sampling• Descriptive vs. Inferential Statistics	Theory
	12:00 -14:00	<ul style="list-style-type: none">• Introduction to MINITAB and SPSS• Data Visualization	Practical
	14:30 -17:00	<ul style="list-style-type: none">• Introduction to Correlation and Regression• Pearson's and Spearman's Correlation Analysis	Theory

Workshop Outline

Day - 2

Date	Time	Topic	Type
<p style="text-align: center;">16 January (Tuesday)</p>	<p style="text-align: center;">09:00 -11:30</p>	<ul style="list-style-type: none"> • Types of Regression Models : Simple Regression Multiple Regression Logistic Regression Vector Auto Regression • Regression analysis with and without interactions 	<p style="text-align: center;">Theory</p>
	<p style="text-align: center;">12:00 -14:00</p>	<ul style="list-style-type: none"> • Correlation and Regression by MINITAB and SPSS 	<p style="text-align: center;">Practical</p>
	<p style="text-align: center;">14:30 -17:00</p>	<ul style="list-style-type: none"> • Hypotheses testing in Correlation and Regression (T-test , ANOVA , Log - Likelihood test ...) • Interpretation of outputs and report writing in Correlation and Regression 	<p style="text-align: center;">Theory and Practical</p>

Resource Persons:

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