STATISTICAL TOOLS ENABLEMENT IN-DEPTH
TRAINING WORKSHOP

Course Description:

Statistical Tools Enablement in-depth Training Workshop - in this workshop participants will learn how to manage and prepare data before the statistical analysis. Further, participants will also learn and understand each statistical test aims to test(ex. relationship, causation, or difference). Participants of this course will also learn how to interpret the results and write narratives. The software that the participants will use are JAMOVI and JASP, these are freeware and user-friendly.

Course Objectives:

1. Learn how to manage and prepare data using JASP and JAMOVI.

2. Learn how to run the statistical test using JASP and JAMOVI. Further, understand the practical application and assumptions of each statistical test.

3. Learn how to report and write the narrative on each statistical tests result.

4. Identify the right statistical test depending on the characteristics of the variables.

Course Outline

Day 1

*Introduction to Jasp and JAMOVI
*Data Encoding using JAMOVI
*Running and Interpreting Frequencies using JAMOVI
*Introduction to basic statistics:mean, median, mode and normal distribution
*Identifying and treating outliers in a distribution

Day 2

*Test of independence: Chi-square test of independence and Correlation: Pearson, Spearman and Kendall Tau
*Test of difference: Paired t-test and Wilcoxon signed-rank
*Comparison of Means (2 groups): Independent T-test and Mann-whitney U test
*Comparison of Means(More than 2 groups): One-way ANOVA and Kruskal Walis-H

Day 3

*Regression Analysis: Linear and Logistic
*ANCOVA
*Reliability

*Factor Analysis

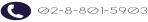## PROGRAM OF ACTIVITIES: STATISTICAL TOOLS ENABLEMENT IN-DEPTH TRAINING WORKSHOP

Day 1: Basics

Opening of the workshop (Doxology, National Anthem and opening remarks)	8:45AM to 9:00AM
Introduction to Jasp and JAMOVI	9:01AM to 10:30AM
Recess/Break	10:31AM to 10:45AM
Data Encoding using JAMOVI	10:46AM to 11:59AM
Lunch Break	12:00PM to 1:00PM
*Running and Interpreting Frequencies using JAMOVI **Introduction to basic statistics:mean, median, mode and normal distribution*	1:01PM to 2:30PM
Identifying and treating outliers in a distribution	2:31PM to 4:00PM
Dismiss	

Day 2: Workshop

Consultation	8:45AM to 9:00AM
Test of independence: Chi-square test of independence and Correlation: Pearson, Spearman and Kendall Tau	9:01AM to 10:30AM
Recess/Break	10:31AM to 10:45AM
Comparison of Means (2 groups): Independent T-test and Mann-Whitney U test	10:46AM to 11:59AM
Lunch Break	12:00PM to 1:00PM
Comparison of Means(More than 2 groups): One-way ANOVA and Kruskal Walis-H	1:01PM to 2:30PM
Break/Recess	2:31PM to 2:45PM
Continuation of Workshop/Hands-on activities	2:46PM to 4:00PM
Dismiss	

Day 3: Workshop(Advanced Statistics)

Regression Analysis: Linear and Logistic	9:01AM to 10:30AM
Recess/Break	10:31AM to 10:45AM
Analysis of Covariates/ANCOVA	10:46AM to 11:59AM
Lunch Break	12:00PM to 1:00PM
Reliability Test and Exploratory Factor Analysis	1:01PM to 2:30PM
Break/Recess	2:31PM to 2:45PM
Confirmatory Factor Analysis	2:31PM to 4:00PM
Dismiss	

THE SPEAKERS

JOSEPH D. FRANCISCO

- **Executive Director**
  Strategic One Business Management
  Consultancy Firm

- **Certified IBM SPSS Statistics Specialist**

- **Professor**(Graduate and Undergraduate
  Programs in Research Writing, Research
  Seminar in Business, Statistics, Financial
  Management & Strategic Management) –
  Holy Trinity University, Palawan

- **10 years of experience** in conducting
  statistical analysis workshop using IBM
  SPSS, JASP and JAMOVI

- **Doctor of Business Administration –
  Candidate**, Rizal Technological University

- **Masters in Business Administration –**
  Pamantasan ng Lungsod ng Muntinlupa

ARTURO PATUNGAN JR.

- **Data Scientist**

- **Consultant**

- **Assistant Professor** - *University of Santo
  Tomas*

- **Ph.D. Mathematics Education (Candidate)**
  – *University of the Philippines, Diliman*

- **Master of Arts in Mathematics** - *University
  of the Philippines, Diliman*