NATIONAL UNIVERSITY
COLLEGE OF ENGINEERING

JANUARY 16, 2023

TO : DR. ROGELIO B. ANIEZ JR.
DEAN, COLLEGE OF ENGINEERING

SUBJECT: NARRATIVE REPORT OF COLLEGE OF ENGINEERING FACULTY AND STUDENT DEVELOPMENT FROM AUGUST 2022 TO JANUARY 2023

Title of Training and Workshop	: **Basic & Statistical Tools for Research and Capstone Design Project using Jamovi and G-Power Software**
Name of Speaker/Trainer	: **Jerome L. Buhay**
Date	: **December 01, 2022**
Time	: **9:00am to 5:00pm**
Venue	: **MS Teams**
Number of Participants (faculty members and students)	: **108**

Narrative: This training and workshop aims to provide information on some statistical principles that is highly applicable to the field of engineering research and capstone design project with the aid of software that fits the description of use. A conference group was created using MS Teams to hold the training and workshop session with this link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_OGViYWQ5ZTAtOGQxZi00MDRiLWEzZTEtMTk2NjUyNWZhZTA0%40thread.v2/0?context=%7b%22Tid%22%3a%221d981f77-3ca3-46ae-b0d4-e8044e6c7f84%22%2c%22Oid%22%3a%2226b60a59-351e-403b-bf2b-0e47f6573452%22%7d.

The master of ceremony is Engr. Shane Garcia while the technical committee are some officers of PICE NUSC and ESC. The first half of the training, from 9:00am to 12:00pm discussed some concepts and principles used in G-Software. On the other hand, from 1:00pm to 4:00pm goes to the discussion of related concepts and principles used in Jamovi. The participants are requested to answer an evaluation form through MS Forms to receive their respective e-certificates powered by Microsoft Power Automate constructed by the coordinator itself. Most of the evaluations given to the speaker/trainer and the workshop itself on the evaluation form were given a rating of 5, with a 5 being the highest (see the attached MS Forms Evaluation Results). This means the participants are highly satisfied to the conducted activity. The invitation, program flow, e-certificate, and some pictures of the training and workshop are attached in this report.

Invitation Letter:

November 22, 2022

MR. JEROME L. BUHAY
DLSUD

Dear Mr. Buhay,

In keeping with the vision of the National University (NU), Philippines to be known internationally in education and research, we, at the NU - College of Engineering have decided to undergo a series of training and workshop that will enhance the skills of the faculty members and students in the field of engineering. I, Engr. Nioro G. Furiscal, have been appointed by the Dean to Chair the Training and Workshop Committee.

May I formally invite you to be part of this training/workshop as our **mentor/speaker**. It will be an honor to have you, knowing that your expertise in the use of Jamovi and G-power software in the application of basic statistical tools for research and capstone design project, can impart knowledge and interest to our faculty members.

Please be informed that the training/workshop is scheduled on Thursday, 1 December 2022. In this regard, may I request the items below to be forwarded to us on or before Wednesday, 23 November 2022:

1. Curriculum vitae
2. Short Bio note
3. Formal picture to be used for the pubmat

Thank you very much and I look forward to having you at the event.

Sincerely,

Engr. Nioro G. Furiscal, CE, MES, LM.PICE, M.ASEP
Event Chair

Faculty, College of Engineering,
National University,
Manila, Philippines

Speaker's CV / Short Bionote:

JEROME L. BUHAY

Block 110 Lot 15 Phase 3 Tierra Nevada, San Francisco
City of General Trias, Cavite Philippines
Date of Birth: March 29, 1972
Mobile Phone Number :(063)-9166177901
Email: jeromelbee@yahoo.com, jlbuhay@dlsud.edu.ph

WORK EXPERIENCE

- **Working as an Assistant Professor (June 1999 up to Present)** at the Mathematics and Statistics Department, College of Science, De La Salle University – Dasmariñas, City of Dasmariñas, Cavite Philippines.

  - Teaching Statistical Analysis in Business- Graduate School of Business , DLSU - Dasmariñas
  - Teaching Statistics in Criminology – Graduate School- College of Criminology and Law Enforcement, DLSU - Dasmariñas
  - Teaching Mathematics Subjects like Elementary Statistics, Engineering and Probability Statistics, Business Statistics, Introduction to Statistical Quality Control, Advance Statistics, Introduction to Probability Theory, Mathematics of Investment, Quantitative Techniques, Algebra, Trigonometry and Calculus.
  - Consultant- Statistical Processes in various industries
  - Department Chair - Mathematics and Statistics Department (2018-2019)
  - Resource Speaker – Strand Asia– Statistics Seminars and Workshops - 2020
  - Resource Speaker/ Consultant – Strat One 2021- present

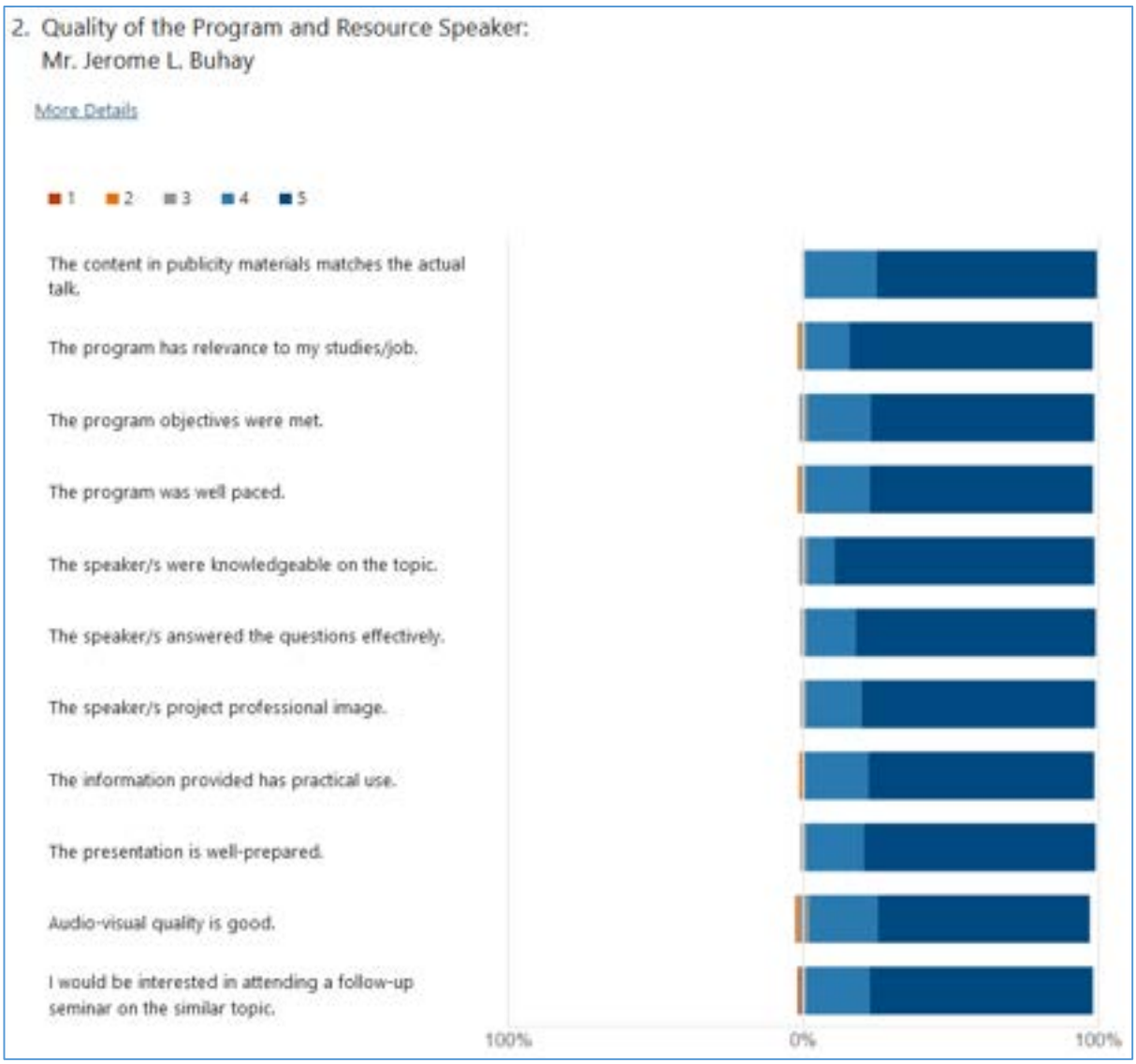
Pubmat:

NATIONAL UNIVERSITY
COLLEGE OF ENGINEERING
TRAINING AND WORKSHOP SERIES
BASIC & STATISTICAL TOOLS FOR RESEARCH AND CAPSTONE DESIGN PROJECT USING JAMOVI AND G-POWER SOFTWARE
WITH
JEROME L. BUHAY
STATISTICS PROFESSOR
ASSISTANT PROFESSOR
DLSU DASMARIÑAS
STATISTICIAN
DATA ANALYSIS AND
TRANING CENTER
ON 01 DECEMBER, 2022
VIA MS TEAMS
9:00 AM TO 5:00 PM

Program Flow:

E-Certificate of the Speaker:

MS Forms Evaluation Results:



3. Comments and suggestions:

More Details Insights

64
Responses

Latest Responses
"None"

Update

12 respondents (**19%**) answered **None** for this question.

4. Future webinar topics that you would want to see:

More Details Insights

60
Responses

Latest Responses
"Mathematical Modelling on Capstone Design Simulation"

Update

9 respondents (**15%**) answered **Softwares** for this question.

Screenshots of the Training and Workshop Proper:

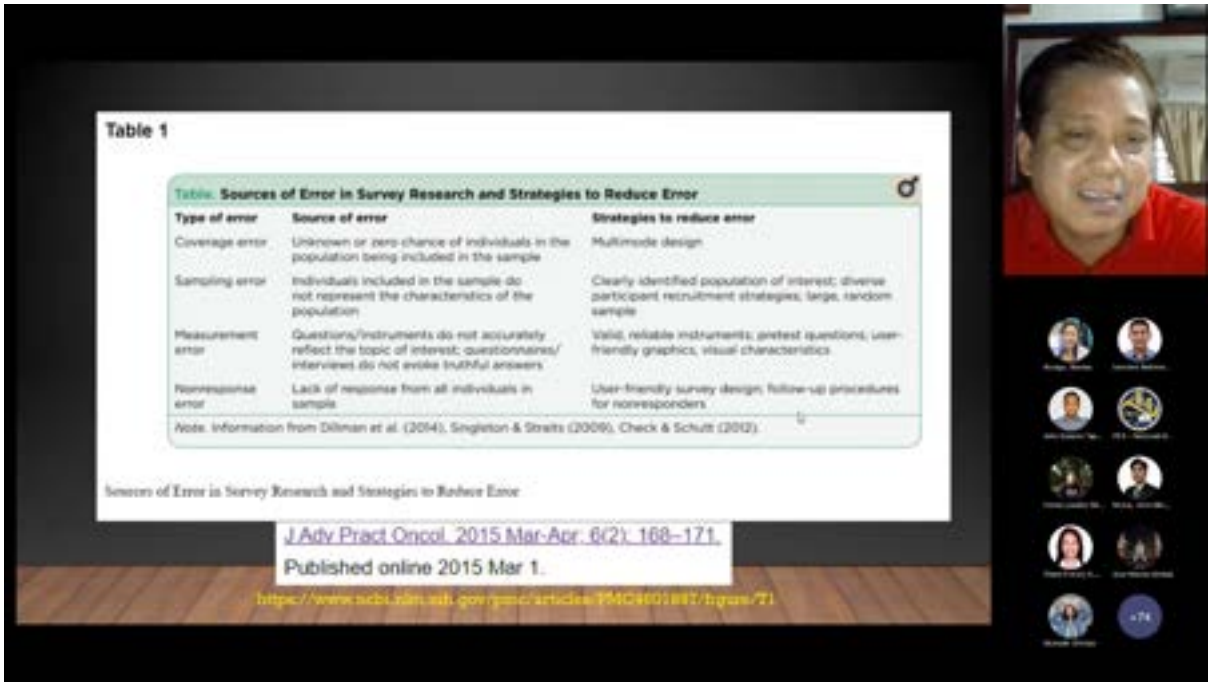
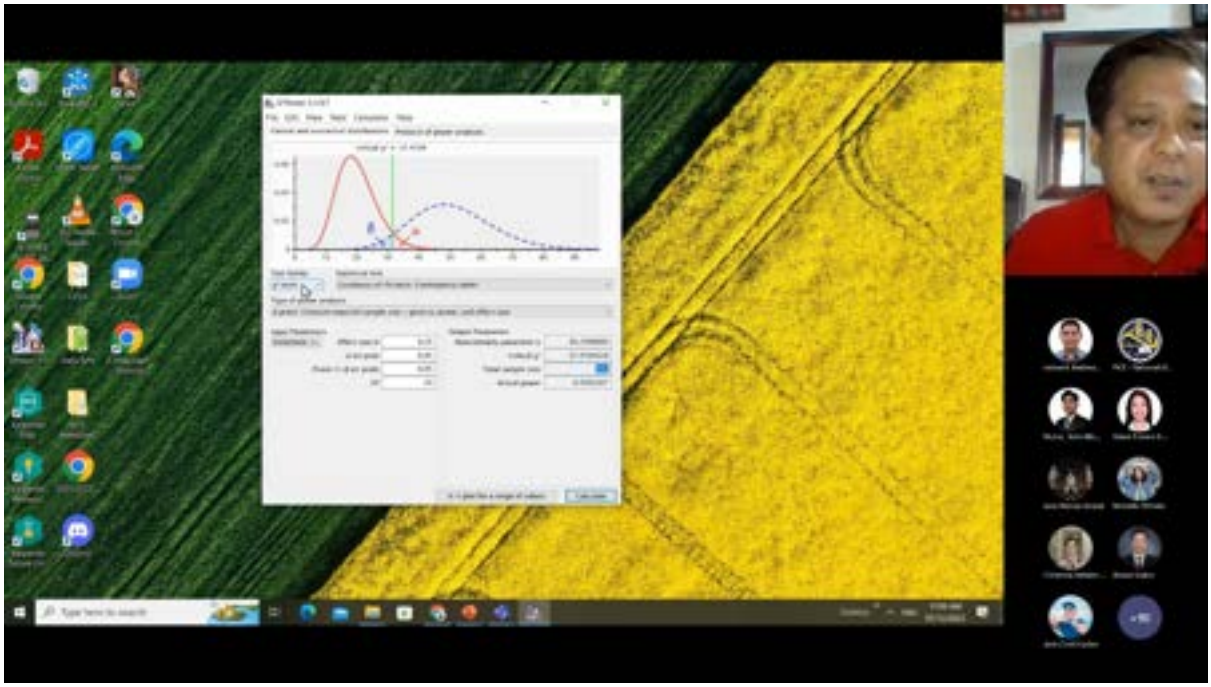
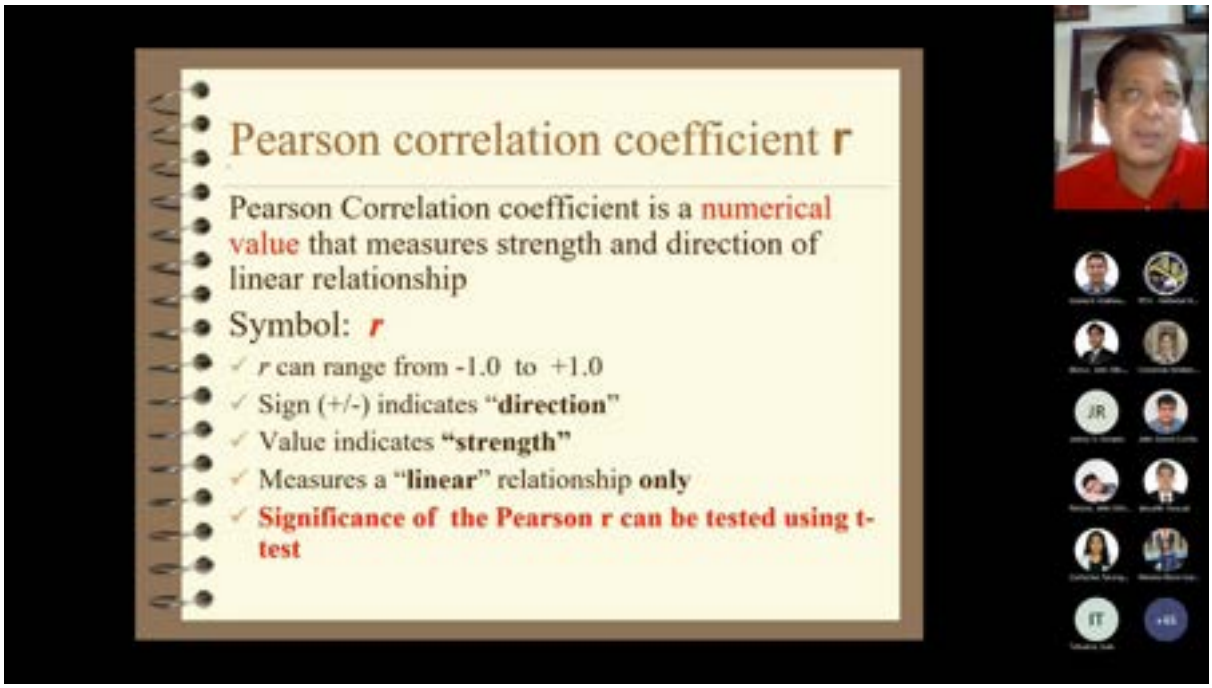
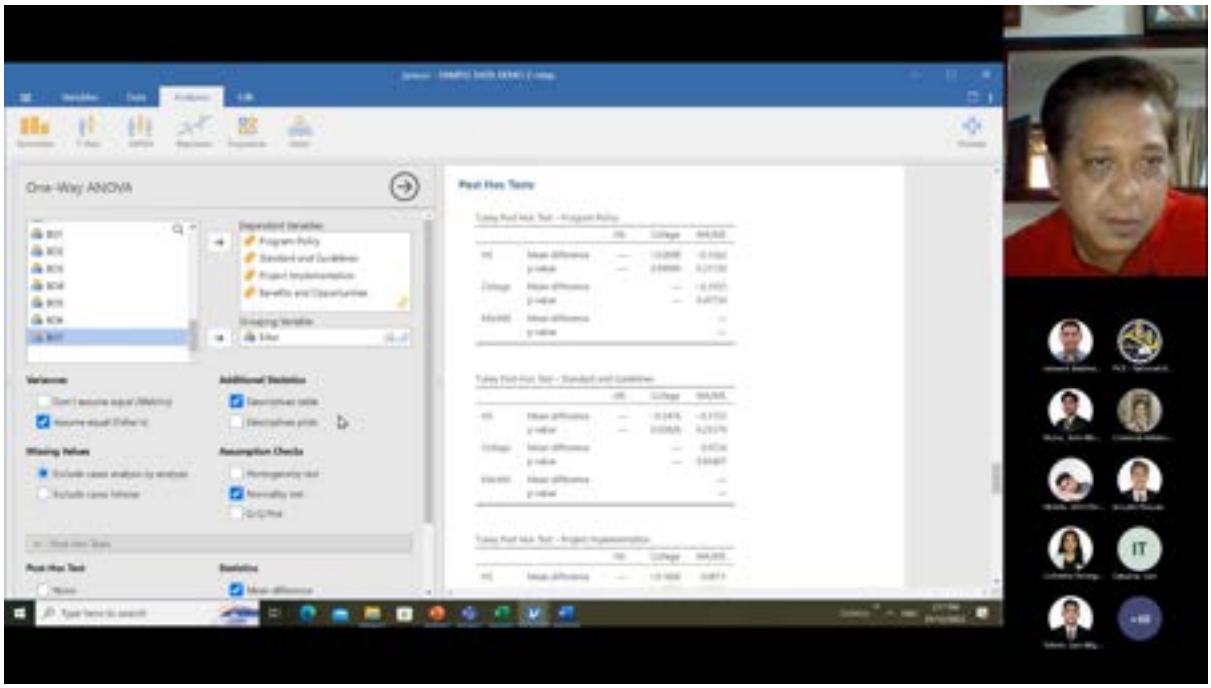


Table 1
Table. Sources of Error in Survey Research and Strategies to Reduce Error
Type of error
Source of error
Strategies to reduce error
Coverage error
Unknown or zero chance of individuals in the population being included in the sample
Multimode design
Sampling error
Individuals included in the sample do not represent the characteristics of the population
Clearly identified population of interest; diverse participant recruitment strategies; large, random sample
Measurement error
Questions/instruments do not accurately reflect the topic of interest; questionnaires/interviews do not evoke truthful answers
Valid, reliable instruments; pretest questions; user-friendly graphics, visual characteristics
Nonresponse error
Lack of response from all individuals in sample
User-friendly survey design; follow-up procedures for nonresponders
Note. Information from Dillman et al. (2014), Singleton & Straits (2009), Check & Schutt (2012).
Sources of Error in Survey Research and Strategies to Reduce Error
J Adv Pract Oncol. 2015 Mar-Apr; 6(2): 168–171.
Published online 2015 Mar 1.




Pearson correlation coefficient r
Pearson Correlation coefficient is a numerical value that measures strength and direction of linear relationship
Symbol: r
r can range from -1.0 to +1.0
Sign (+/-) indicates "direction"
Value indicates "strength"
Measures a "linear" relationship only
Significance of the Pearson r can be tested using t-test


One-Way ANOVA

Prepared and submitted by:

ENGR. NIORO G. FURISCAL, *MES, MSCE-Structural (CAR)*
COORDINATOR, COLLEGE OF ENGINEERING FACULTY AND STUDENT DEVELOPMENT
PROGRAM COORDINATOR, CIVIL ENGINEERING DEPARTMENT
FACULTY MEMBER, CIVIL ENGINEERING DEPARTMENT
NATIONAL UNIVERSITY - MANILA