



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

SUBJECT: NARRATIVE REPORT OF COLLEGE OF ENGINEERING FACULTY AND STUDENT  
DEVELOPMENT FROM MAY 2023 TO JULY 2023

---

**TRAINING & WORKSHOP NO. 1**

Title of Training and Workshop : Structural Engineering Design Software Fundamentals & Modelling: ETABS & SAP2000  
Name of Speaker/Trainer : Engr. Leonil Longno  
Date : May 31, 2023  
Time : 8:00am to 5:00pm  
Venue : MS Teams  
Number of Participants (Faculty members and students) : 177

**Narrative:** This training and workshop aims to provide the basic discussion regarding the modelling procedure and use of the ETABS & SAP2000 software in designing a reinforced concrete, steel, and other vertical structure. 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%3a7peq9glwoa6qwBkg4JmDWOXg75MXqr9jwhct0xXvIU1%40thread.tacv2/1685244528945?context=%7b%22Tid%22%3a%221d981f77-3ca3-46ae-b0d4-e8044e6c7f84%22%2c%22Oid%22%3a%22a62812df-8ae8-401d-ab21-7f08389d27b5%22%7d>

The master of ceremony is Engr. Arleen Pablo-Sacdalan while the technical committee are some officers of PICE NUSC and ESC. The training session started from 8:00am and ended to 5:00pm that includes the hands-on training of the ETABS & SAP2000 software from creation of the structural grid, definition of the material properties, methods of drawing for structural members, application of loads for frames, shells, and joints, pre-processing and post-processing of information. 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. Some pictures of the training and workshop are attached in this report.

Invitation Letter:

May 09, 2023

**ENGR. LEONIL B. LONGNO**, MSCE MBA CEng MIEI IstructE  
Associate Professor, Civil Engineering Program  
University of Southeastern Philippines (USEP)



Dear Engr. Longno,

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 as Coordinator of the College of Engineering Faculty and Student Development.

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 ETABS and SAP2000 software, can impart knowledge and interest to our faculty members and engineering students.

Please be informed that the training/workshop is scheduled on Wednesday, 31 May 2023. In this regard, may I request the items below to be forwarded to us on or before Friday, 12 May 2023:

1. Curriculum vitae
2. Short Bio note
3. Formal picture to be used for the pubmat
4. Scanned or clear copy of valid ID

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

Sincerely,



**Engr. Nioro G. Furiscal**, CE, MSCE-Structural (CAR), MES, LM.PICE, M.ASEP  
Coordinator, COE Faculty and Student Development

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

Speaker's CV / Short Bionote:



**PROFILE**

Leonil has more than 30 years' experience in the field of civil and structural engineering. Design and construction experience include both steel and concrete structures (telecom structures, high rise buildings, large commercial complex buildings, industrial buildings, government and private housing projects, utility structures, pipe support systems, building foundations, on-shore structures, shore protection structures, roads and drainage, mat foundation, pile foundations and retaining wall, wind turbine structures).

Leonil is a PRC Registered Professional Engineer in the Philippines, and a recognized Chartered Engineer previously practicing in Ireland and the United Kingdom.

**PERSONAL DATA:**

Place of Birth: Manila  
 Date of Birth: August 12, 1965, Age: 57  
 Gender: Male; Height: 1.73m  
 Weight: 70 kg; nationality: Filipino  
 Address: 406 Purok Barigus, San Pedro, Panabo City, Davao del Norte 8105  
 Post Code: 8105

**CONTACT**

PHONE: 0063-9912289497  
 Viber, WhatsApp

EMAIL: Leonil.Longno@gmail.com

**PROFESSIONAL MEMBERSHIP**

Engineers Ireland  
 Institution of Structural Engineers, UK  
 ASEF, Philippines  
 FICE, Philippines  
 ACECOMS, Thailand

# LEONIL LONGNO

Civil Engineer, BSc MSc MBA CEng MEl IStructE

**WORK EXPERIENCE**

**Waterman Group, Senior Structural Engineer**

2015-2019

Lead engineer for the design and coordination of several new very tall buildings in London, UK.

**Delmeq Engineering, Senior Project Engineer**

2009-2014

Lead engineer in the analysis, design, and forensic investigation of hundreds of telecom towers in Ireland and several countries in Africa. Performed geotechnical field soil tests for project sites.

**Arup Consulting, Senior Construction Engineer**

2006-2009

Lead Engineer for the design and site coordination of several steel and precast civil structures in Cork, Ireland to include carpark building, drainage structures, spiral ramp, and shopping mall.

**Foster Wheeler (Singapore), Poyry Group (Thailand), Hyder Consulting (Phil), Aim Consultants (Nigeria), Saudi Diyar (KSA), EM2A Partners (Phil), QA Builders (Phil), Jolibao Engg (Phil), ECT Consulting Engineers (Phil)**  
 1988-2006

Varied Civil Engg roles from project management, structural, and geotechnical engg design, site investigations, material tests, hold training sessions, liaison with local govt units for civil, bridge, dams, powerplants, housing and commercial buildings, industrial structures, telecom towers and shore protection structures.

**EDUCATION**

**University of the Philippines, Diliman, QC, Philippines**

1992-1994 – Masters in Business Administration (under Presidential Scholarship Grant)

1987-1990 – MSc in Civil Engineering, Major in Structures

**University of Immaculate Conception, Davao City, Philippines**

1980 – 1985 – BSc, Civil Engineering

**SKILLS AND EXPERTISE**

Project Management and Supervision	
Structures and Foundation Design	
Communication Structures Design and Supervision	
Geotechnical Field Testing and Reporting	
Forensic Investigation of Structural and Ground Failures	
Retrofit-Strengthening of Building and Telecom Structures	
Peer Design Reviewer and Value Engineering	
Performed Trainings, Seminars	

Pubmat:

**TRAINING AND WORKSHOP SERIES**

**STRUCTURAL ENGINEERING  
DESIGN SOFTWARE  
FUNDAMENTALS & MODELLING:  
ETABS & SAP2000**

*With*

**ENGR. LEONIL LONGNO**

Civil Engineer, BSc MSc MBA  
CEng MIEI IStructE

**MAY 31, 2023**

**SESSION 1: SAP 2000**  
9:00 AM - 12:00 NN

**SESSION 2: ETABS**  
1:00 PM - 4:00 PM




 **NATIONAL UNIVERSITY  
COLLEGE OF ENGINEERING**



## Program Flow:

**TRAINING AND WORKSHOP SERIES**

**STRUCTURAL ENGINEERING  
DESIGN SOFTWARE  
FUNDAMENTALS & MODELLING:  
ETABS & SAP2000**



**NATIONAL UNIVERSITY  
COLLEGE OF ENGINEERING**

**PROGRAM FLOW**  
SESSION 1

REMINDERS	8:00 AM - 8:10 AM
INVOCATION	8:10 AM - 8:15 AM
NATIONAL ANTHEM	8:15 AM - 8:20 AM
WELCOMING REMARKS <i>Dr. Rogelio B. Aniez Jr.</i>	8:20 AM - 8:30 AM
INTRODUCTION OF THE SPEAKER <i>Engr. Nioro G. Furiscal</i>	8:30 AM - 8:40 AM
SESSION 1 PROPER <i>Engr. Leonil Longno</i>	8:40 AM - 12:00 NN
LUNCH BREAK	12:00 NN - 1:00 PM

**PROGRAM FLOW**  
SESSION 2

REMINDERS	1:00 PM - 1:10 PM
SESSION 2 PROPER <i>Engr. Leonil Longno</i>	1:10 PM - 4:00 PM
QUESTION & ANSWER	4:00 PM - 4:40 PM
AWARDING OF CERTIFICATE	4:40 PM - 4:45 PM
CLOSING REMARKS <i>Engr. Nioro G. Furiscal</i>	4:45 PM - 4:55 PM
NU HYMN	4:55 PM - 5:00 PM

**ENGR. ARLEEN PABLO-SACDALAN**  
Master of Ceremony

E-Certificate of the Speaker:



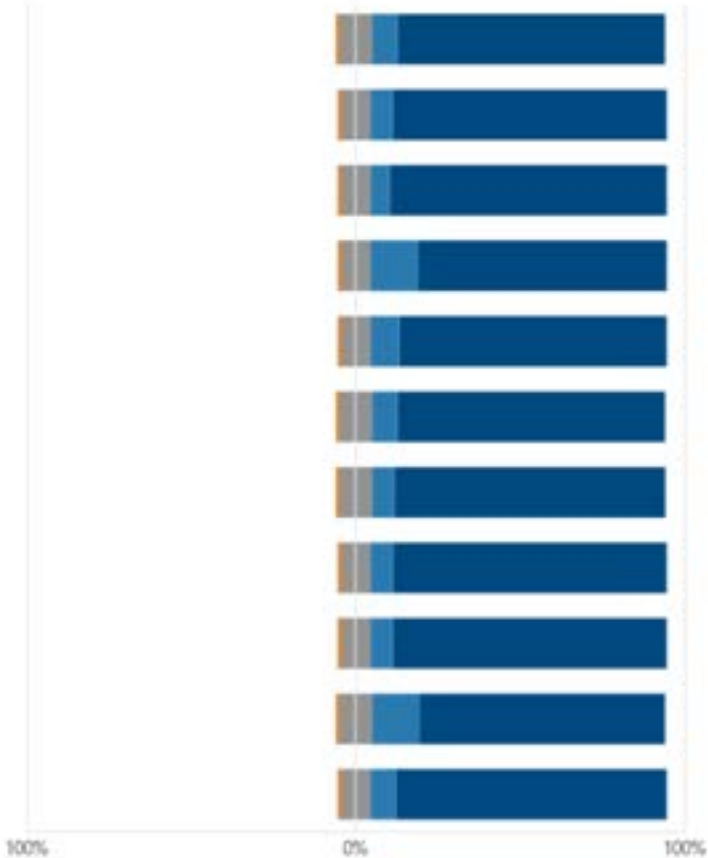
**MS Forms Evaluation Results:**

**2. Quality of the Program and Resource Speaker:  
Engr. Leonil B. Longno**

[More Details](#)

■ 1 ■ 2 ■ 3 ■ 4 ■ 5

- The content in publicity materials matches the actual talk.
- The program has relevance to my studies/job.
- The program objectives were met.
- The program was well paced.
- The speaker/s were knowledgeable on the topic.
- The speaker/s answered the questions effectively.
- The speaker/s project professional image.
- The information provided has practical use.
- The presentation is well-prepared.
- Audio-visual quality is good.
- I would be interested in attending a follow-up seminar on the similar topic.



3. Comments and suggestions:

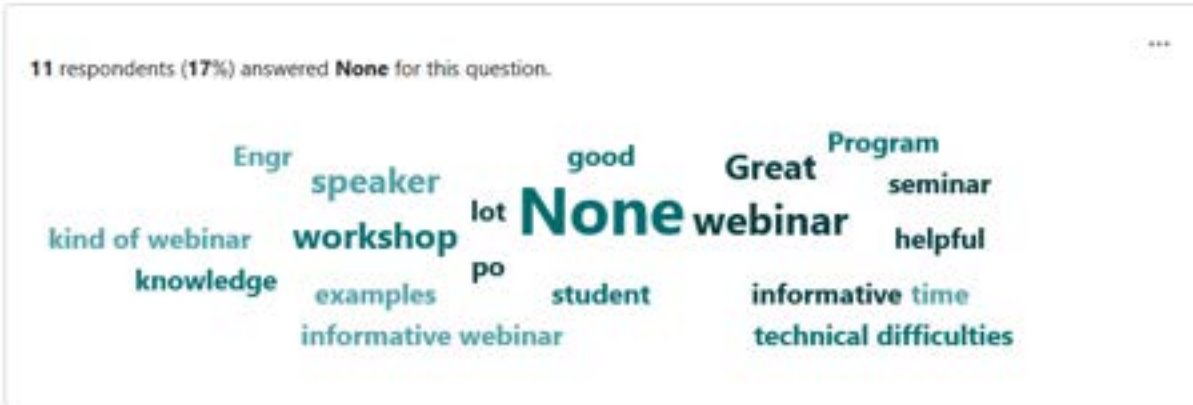
[More Details](#)

[Insights](#)

64

Responses

[Latest Responses](#)



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

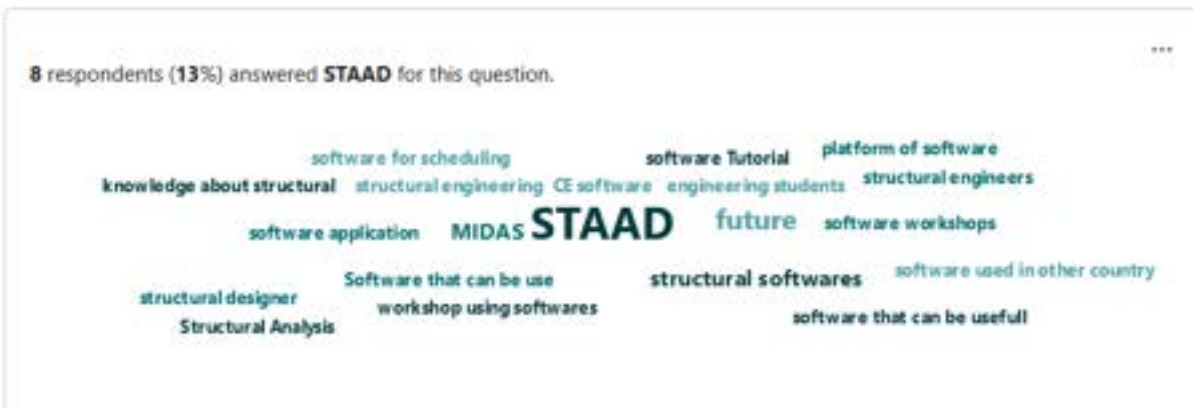
[More Details](#)

[Insights](#)

62

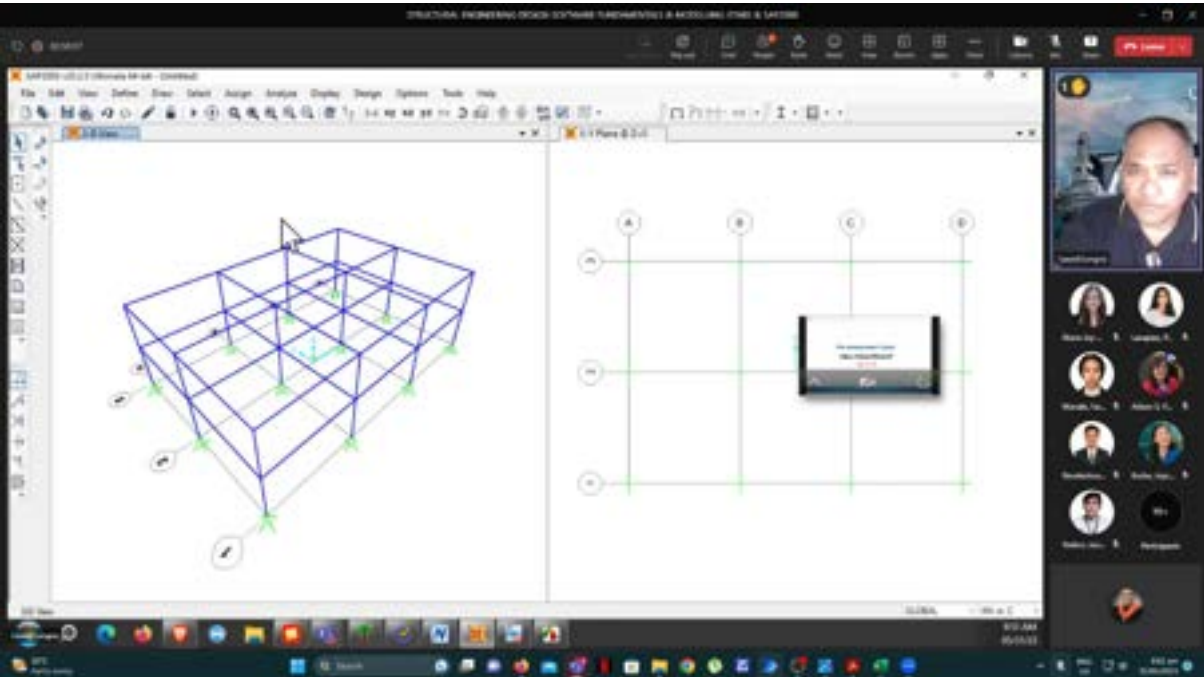
Responses

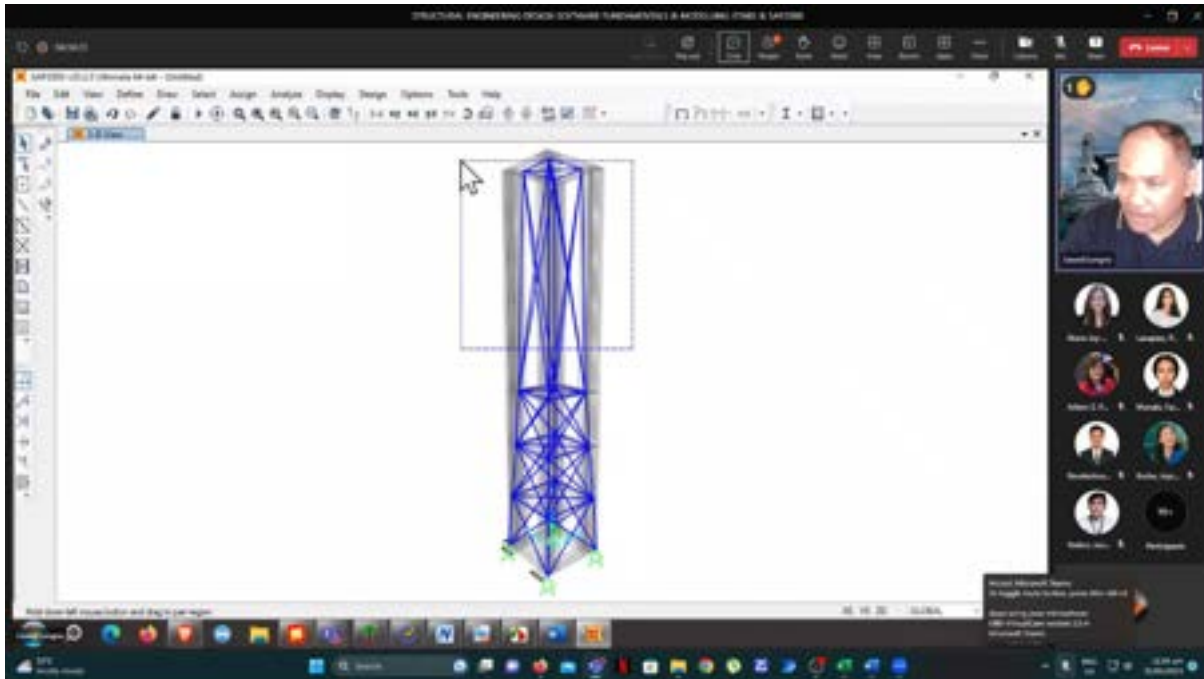
[Latest Responses](#)





Screenshots of the Training and Workshop Proper:





**TRAINING & WORKSHOP NO. 2**

<b>Title of Training and Workshop</b>	<b>: Linear and Multiple Regression Analysis Using Jamovi Software</b>
<b>Name of Speaker/Trainer</b>	<b>: Mr. Jerome L. Buhay</b>
<b>Date</b>	<b>: June 21, 2023</b>
<b>Time</b>	<b>: 8:00am to 5:00pm</b>
<b>Venue</b>	<b>: MS Teams</b>
<b>Number of Participants (Faculty members and students)</b>	<b>: 32</b>

**Narrative:** This training and workshop aims to provide the discussion of the basic principles regarding the linear and multiple regression statistical analysis and its application using Jamovi software in designing a reinforced concrete, steel, and other vertical structure. 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%3aUslo-i0ovjJe5hghweex7-Kvh3JVBP7mRzwbKqNiM1%40thread.tacv2/1687273815175?context=%7b%22Tid%22%3a%221d981f77-3ca3-46ae-b0d4-e8044e6c7f84%22%2c%22Oid%22%3a%2284a0035d-5e09-4b27-a492-c9db8c849b28%22%7d>

The master of ceremony is Engr. Arleen Pablo-Sacdalan while the technical committee are some officers of PICE NUSC and ESC. The training session started from 8:00am and ended to 5:00pm that includes the hands-on training of the Jamovi software using the basic principles of linear and multiple regression statistical analysis. 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. Some pictures of the training and workshop are attached in this report.

**Invitation Letter:**

May 10, 2023

**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 as Coordinator of the College of Engineering Faculty and Student Development.

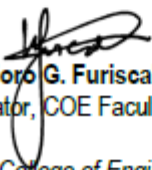
May I formally invite you to be part of this training/workshop as our **mentor/speaker**. It will be an honor to have you, knowing that your expertise in the use of Jamovi software in the application of simple and multiple regression analysis for research and capstone design project, can impart knowledge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

Please be informed that the training/workshop is scheduled on Wednesday, 14 June 2023. In this regard, may I request the items below to be forwarded to us on or before Friday, 19 May 2023:

1. Curriculum vitae
2. Short Bio note
3. Formal picture to be used for the pubmat
4. Scanned or clear copy of valid ID

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

Sincerely,

  
**Engr. Nioro G. Furiscal, CE, MSCE-Structural (CAR), MES, LM.PICE, M.ASEP**  
Coordinator, COE Faculty and Student Development

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

**Speaker's CV / Short Bionote:**





**JEROME L. BUHAY**

Assistant Professor – 1999- present  
Mathematics and Statistics Department  
College of Science and Computer Studies  
De La Salle University Dasmariñas

Address: Block 110 Lot 15 Phase 3 Tierra Nevada, San Francisco, City of General Trias, Cavite Philippines

Date of Birth: March 29, 1972

Place of Birth: Indang Cavite

Education:

- ~ *University of Batangas – PhD in Mathematics Education – Dissertation Writing*
- ~ *University of the Philippines -Diliman – PhD in Statistics- Units taken*
- ~ *De La Salle University – Dasmariñas (Dasmariñas, Cavite)  
Masters Degree in Mathematics (2003)*
- ~ *Cavite State University (Indang, Cavite)  
Degree: BS Applied Mathematics  
Major in Statistics (1999)*
- ~ *Don Severino Agricultural College (Indang, Cavite)  
High School (1989)*
- ~ *Indang East Elementary School (Indang, Cavite)  
Elementary (1985)*

Pubmat:



NATIONAL UNIVERSITY  
COLLEGE OF ENGINEERING



TRAINING AND WORKSHOP SERIES

**LINEAR AND MULTIPLE REGRESSION ANALYSIS  
USING JAMOVI SOFTWARE**

WITH

**JEROME L. BUHAY**  
STATISTICIAN

ON JUNE 21, 2023  
VIA MS TEAMS

8:00 AM TO 5:00 PM



Program Flow:



**TRAINING AND WORKSHOP SERIES**

**LINEAR AND MULTIPLE  
REGRESSION ANALYSIS USING  
JAMOVI SOFTWARE**



**NATIONAL UNIVERSITY  
COLLEGE OF ENGINEERING**

**PROGRAM FLOW**  
SESSION 1

REMINDERS	8:00 AM - 8:10 AM
INVOCATION	8:10 AM - 8:15 AM
NATIONAL ANTHEM	8:15 AM - 8:20 AM
WELCOMING REMARKS <i>Dr. Rogelio B. Aniez Jr.</i>	8:20 AM - 8:30 AM
INTRODUCTION OF THE SPEAKER <i>Engr. Nioro G. Furiscal</i>	8:30 AM - 8:40 AM
SESSION 1 PROPER Mr. Jerome L. Buhay	8:40 AM - 12:00 NN
LUNCH BREAK	12:00 NN - 1:00 PM

**PROGRAM FLOW**  
SESSION 2

REMINDERS	1:00 PM - 1:10 PM
SESSION 2 PROPER Mr. Jerome L. Buhay	1:10 PM - 4:00 PM
QUESTION & ANSWER	4:00 PM - 4:40 PM
AWARDING OF CERTIFICATE	4:40 PM - 4:45 PM
CLOSING REMARKS <i>Engr. Nioro G. Furiscal</i>	4:45 PM - 4:55 PM
NU HYMN	4:55 PM - 5:00 PM

**ENGR. ARLEEN SACDALAN-PABLO**  
Master of Ceremony

E-Certificate of the Speaker:



MS Forms Evaluation Results:

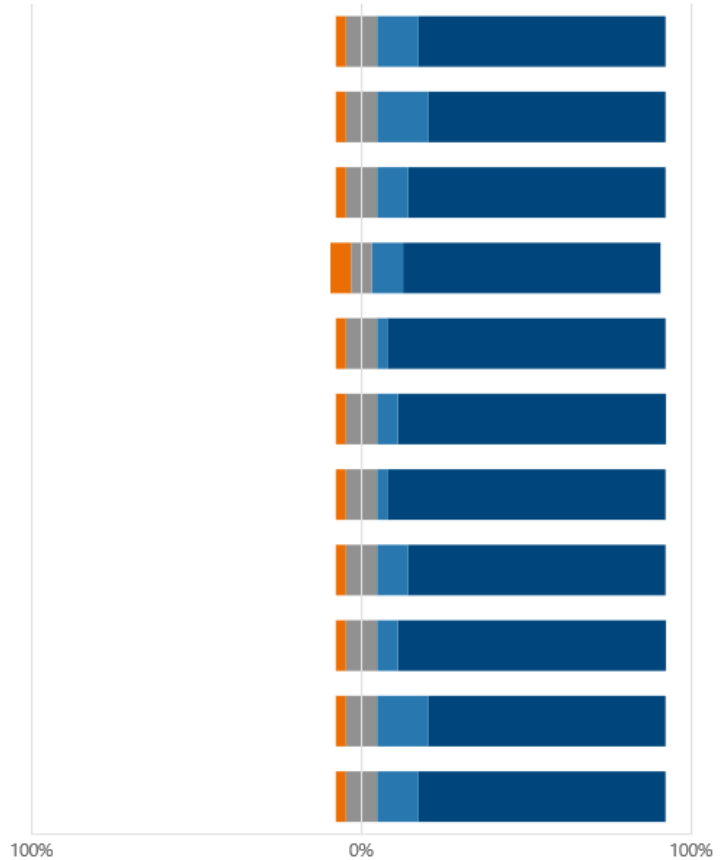


2. Quality of the Program and Resource Speaker:  
Mr. Jerome L. Buhay

[More Details](#)

1 2 3 4 5

- The content in publicity materials matches the actual talk.
- The program has relevance to my studies/job.
- The program objectives were met.
- The program was well paced.
- The speaker/s were knowledgeable on the topic.
- The speaker/s answered the questions effectively.
- The speaker/s project professional image.
- The information provided has practical use.
- The presentation is well-prepared.
- Audio-visual quality is good.
- I would be interested in attending a follow-up seminar on the similar topic.



3. Comments and suggestions:

[More Details](#)

[Insights](#)

24  
Responses

Latest Responses

"The workshop helped me to use another software that i can use for future p...

"None"

"none"

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

[More Details](#)

[Insights](#)

23  
Responses

Latest Responses

"I want to knore more deeply about other engineering softwares"

"Scilab Tutorials"

"none"



Screenshots of the Training and Workshop Proper:

The image shows a Zoom meeting title slide. At the top left is the National University logo, a shield with 'NU' and '1962'. To its right, the text reads 'NATIONAL UNIVERSITY' and 'COLLEGE OF ENGINEERING'. The main title is 'LINEAR AND MULTIPLE REGRESSION ANALYSIS USING JAMOVI SOFTWARE' in large, bold, blue letters. Below the title is a horizontal line, followed by 'TRAINING AND WORKSHOP SERIES'. The background features a city skyline silhouette and a green digital rain effect. On the right side, there is a vertical column of 15 small circular icons representing participants. At the bottom, there is a Zoom control bar with a play button and a timer showing 00:00.

The image shows a Zoom meeting slide for 'SESSION 1'. The background is a green digital rain effect with a city skyline silhouette. In the center is a circular portrait of a man with glasses, wearing a dark blue jacket over a dark t-shirt. Above the portrait, the text 'SESSION 1' is written in a light blue, sans-serif font. Below the portrait, the name 'Mr. Jerome L. Buhay' is written in a large, bold, blue font, with the word 'STATISTICIAN' in a smaller font underneath. On the right side, there is a vertical column of 15 small circular icons representing participants. At the top right, there is a small video thumbnail of a woman with glasses, with the name 'Arleen S. Pabito' below it. At the bottom, there is a Zoom control bar with a play button and a timer showing 00:00.

# Pearson correlation coefficient $r$

Illustration:

➤ Closer to 0 = weaker  
➤ Closer to  $\pm 1.0$  = stronger  
➤  $r$  close to  $\pm 1.0$  **perfect**  
➤  $r = 0$  could mean many things:  
    ❖ No relationship at all between X & Y  
    ❖ **Non-linear** relationship between X & Y  
    ❖ **Restricted range** on X and/or Y  
    ❖ **Outlier** may be causing problems

Linear Regression

Variables: Selling\_Price, Age, Area\_Sq\_Ft, Fuel\_Type, Transmission

Weights (optional):

Model 1: Selling\_Price, Age, Area\_Sq\_Ft, Fuel\_Type

Model 2: Selling\_Price, Age, Area\_Sq\_Ft, Fuel\_Type

Reference Labels: Fuel\_Type (Petrol), Selling\_Price (Price), Transmission (Manual)

NATIONAL UNIVERSITY  
COLLEGE OF ENGINEERING

Certificate of Participation  
to





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