



**15TH NATIONAL
CONVENTION
ON STATISTICS**

03-05 OCTOBER 2022

*Organized by the Philippine Statistical System
Spearheaded by the Philippine Statistics Authority*



Statistical Capacity Development During the Time of COVID-19 Pandemic: The UP Cebu Initiatives and their Perceived Effectiveness

Nelia Sabater Ereno

Dean, College of Science
University of the Philippines Cebu

Statistical Capacity Development
and Statistical Literacy
Crowne Plaza Galleria Manila
3:30 – 5:00PM, 3 October 2022

Statistical Capacity Development During the Time of COVID-19 Pandemic: The UP Cebu ...

Introduction



Source: <https://www.pond5.com/>

In Central Visayas ...

There appears a strong clamor for statistical skills development providers even among those who are already engaged in the workplace; hence the need for empowering them with knowledge beyond the traditional stock of knowledge they acquired from pre-employment schooling.

Introduction

However, ...



Covid 19
Coronavirus



Statistical Capacity Development During the Time of COVID-19 Pandemic: The UP Cebu ...



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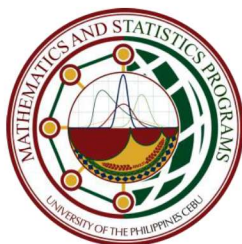
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Introduction

UP Cebu made major revamps and revisions to the design of the deliveries of relevant training to address the need of enhancing the statistical literacy of the professionals in the region amid the pandemic.



Statistical Capacity Development During the Time of COVID-19 Pandemic: The UP Cebu ...



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Online Training

The banner is for a 'WEBINAR-WORKSHOP ON INTRODUCTION TO FORECASTING'. It is organized by the 'UNIVERSITY OF THE PHILIPPINES CEBU', specifically the 'College of Science' and 'OFFICE OF THE MATHEMATICS PROGRAM'. The event is scheduled for '10 -13 NOVEMBER 2020' from '1:00 PM - 4:00 PM via zoom'. The speaker is 'Associate Professor, School of Statistics, University of the Philippines Diliman'. The banner also mentions it is 'in celebration of the 31st National Statistics Month (NSM) with the theme "Bridging Digital Gaps: Making Information Available to All"'. The Zoom logo is present, and the text 'RESOURCE SPEAKER' is written vertically on the right side.

- UP Cebu conducted its first online training on forecasting via the Zoom platform and live cast on its Facebook Page.
- It was actually the 6th training course being provided for RSC 7

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Online Training

UNIVERSITY OF THE PHILIPPINES CEBU
College of Science
OFFICE OF THE MATHEMATICS PROGRAM

**WEBINAR-WORKSHOP ON
INTRODUCTION TO
FORECASTING**

10 -13 NOVEMBER 2020
1:00 PM - 4:00 PM via zoom

RESOURCE SPEAKER
Associate Professor, School of Statistics
University of the Philippines Diliman

in celebration of the 31st National Statistics Month (NSM) with the theme
"Bridging Digital Gaps: Making Information Available to All"

The online evaluation of the participants in the training and webinars organized by the College of Science during the time of the COVID-19 pandemic were used in this study.

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Online Training on Forecasting

Table 1. Participants of the Training on Forecasting

Functionaries	Frequency	Percentage
LGAs	46	59%
LGUs	4	5%
SUCs / HEIs	10	13%
Private Entity	18	23%
Total	78	100%

In celebration of the 31st National Statistics Month (NSM) with the theme
"Bridging Digital Gaps: Making Information Available to All"

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Online Training on Forecasting

Participants evaluated the performance of the resource person using the rating scale as follows:

- A1** – *The speaker was able to convey the expected learning;*
- A2** – *The speaker presented the subject matter clearly and effectively;*
- A3** – *The speaker encouraged participation;*
- A4** – *The speaker answered questions clearly and completely;*
- A5** – *The speaker managed the time effectively; and*
- A5** – *The speaker demonstrated a positive attitude.*

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Online Training on Forecasting

Table 2. Evaluation on the Performance of the Resource Speaker

	A1		A2		A3		A4		A5		A6	
Reponses	Freq	%	Freq	%	Freq	%	Freq	%	Freq	%	Freq	%
Outstanding	33	43%	37	47%	35	45%	42	54%	35	45%	44	57%
Very Satisfactory	37	47%	30	39%	24	31%	28	36%	37	47%	29	37%
Satisfactory	6	8%	9	12%	16	21%	6	8%	4	5%	4	5%
Fair	1	1%	1	1%	3	3%	2	2%	2	3%	1	1%
Poor	1	1%	1	1%	0	0%	0	0%	0	0%	0	0%
Total	78	100	78	100	78	100	78	100	78	100	78	100



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Online Training on Forecasting

The topic objectives as well as the content and result were also evaluated. The criteria used were the following:

- B1** – *The topic introduced new and relevant ideas that are useful for personal, interpersonal, and organizational advancement;*
- B2** – *The topic is highly recommended to others; and*
- B3** – *The pacing and duration of the topic were just right.*

10 -13 NOVEMBER 2020
1:00 PM - 4:00 PM via



PROF. GENELYN MA. F. SARTE
Associate Professor, School of Statistics
University of the Philippines Cebu

In celebration of the 31st National Statistics Month (NSM) with the theme
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Online Training on Forecasting

Table 3. Evaluation on Topic Objectives, Content and Result

	B1		B2		B3	
Reponses	Freq	%	Freq	%	Freq	%
Outstanding	44	56%	41	53%	34	44%
Very Satisfactory	27	35%	31	39%	30	38%
Satisfactory	4	5%	3	4%	6	8%
Fair	1	1%	0	0%	5	6%
Poor	2	3%	3	4%	3	4%
Total	78	100	78	100	78	100



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Online Training on Forecasting

The administrative arrangement were also evaluated. The criteria used were the following:

- D1** – *Webinar was well prepared and managed;*
- D2** – *The registration process was organized and systematic;*
- D3** – *Relevant information (registration, Web Link, sessions, etc.) was available and accessible.*

10 -13 NOVEMBER 2020
1:00 PM - 4:00 PM via



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Online Training on Forecasting

Table 4. Evaluation On Administrative Arrangements

	D1		D2		D3	
<i>Reponses</i>	<i>Freq</i>	<i>%</i>	<i>Freq</i>	<i>%</i>	<i>Freq</i>	<i>%</i>
Outstanding	38	49%	45	58%	46	59%
Very Satisfactory	34	44%	30	39%	27	35%
Satisfactory	3	4%	2	2%	4	5%
Fair	1	1%	0	0%	0	0%
Poor	2	2%	1	1%	1	1%
Total	78	100	78	100	78	100



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Online Training on Forecasting

Table 5. Overall Assessment of the Training

Reponses	Frequency	Percentage
Outstanding	37	47%
Very Satisfactory	36	46%
Satisfactory	3	4%
Fair	2	3%
Poor	0	0%
Total	78	100

Issues and Concerns on Training Online



unstable internet connection



prolonged duration of time



problem with how to supervise



lack of facilities



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On the Conduct of the Webinar



Given these issues and concerns, online training came out difficult to continue carrying out; hence webinars became an option in subsequent activities and were likewise subsequently organized.



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On the Conduct of the Webinar

A system-wide organizational culture supports the development of statistical literacy of citizens at all levels.



Resource
Persons



collaborate
with



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On the Conduct of the Webinar

PSAI CV
Philippine Statistical Association Inc.
Central Visayas

In Celebration of the 32nd National Statistics Month

Webinar in Spatial Analysis of Area Data

October 12 & 14, 2021 via Zoom
1000 to 5:00 pm

Speaker
Prof. FRANCISCO DE LOS REYES
School of Statistics, University of the Philippines Diliman

Register Now for Free:
bit.ly/SAADpsaiv
LIMITED SLOTS ONLY
Registration closes 11 October 2021, 12NN

In coordination with

psaivcvm@gmail.com
bit.ly/PSAiv

University of the Philippines Cebu
MATHEMATICS AND STATISTICS PROGRAMS

Webinar on SPATIAL POINT PATTERNS WITH APPLICATION

SPEAKER
FRANCISCO N. DE LOS REYES
Director, Office of Administration
Associate Professor, School of Statistics
University of the Philippines

19 - 20 AUGUST 2021, 1:00PM - 5:00PM
via ZOOM

University of the Philippines Cebu
MATHEMATICS AND STATISTICS PROGRAMS

Webinar on LONGITUDINAL DATA ANALYSIS & MISSING DATA

SPEAKER
CRISTINA SOTTO, PhD
Associate Scientific Director
Statistical Modeling and Methodology
Janssen Pharmaceutica NV, Belgium

18 AUGUST 2021, 03:00PM-05:00PM
via ZOOM

To register, scan the QR Code or visit
<https://bit.ly/StatWebRegistration>
For more updates, like and follow us at
<https://www.facebook.com/upc-matstat>

University of the Philippines Cebu
MATHEMATICS AND STATISTICS PROGRAMS

WEBINAR COINTEGRATION MODELS

June 21, 2022 (9:00 AM - 11:30 AM, PST)
via ZOOM

Resource Speaker
DR. LISA GRACE S. BERSALES

University of the Philippines Cebu
MATHEMATICS AND STATISTICS PROGRAMS

WEBINAR BOOTSTRAP METHODS with APPLICATIONS

JUNE 22, 2022
9:00 AM - 11:30 AM, PST
via ZOOM

Resource Speaker
DR. MICHAEL DANIEL C. LUCAGBO

UNIVERSITY OF THE PHILIPPINES CEBU
College of Science
OFFICE OF THE MATHEMATICS PROGRAM

Webinars on STATISTICS

In celebration of the 31st National Statistics Month
"Bridging Digital Gaps: Making Information Available to All"

DATEWISE ANALYSIS 19-20 AUGUST 2021, 1:00PM - 5:00PM
DR. MICHAEL D. LUCAGBO
Associate Professor, School of Statistics

HIGH DIMENSIONAL DATA 19-20 AUGUST 2021, 1:00PM - 5:00PM
DR. LISA GRACE S. BERSALES
Associate Professor, School of Statistics

PRINCIPAL COMPONENT ANALYSIS 19-20 AUGUST 2021, 1:00PM - 5:00PM
DR. LISA GRACE S. BERSALES
Associate Professor, School of Statistics

COMMUNITY-BASED MONITORING SYSTEM 19-20 AUGUST 2021, 1:00PM - 5:00PM
DR. LISA GRACE S. BERSALES
Associate Professor, School of Statistics

UNIVERSITY OF THE PHILIPPINES CEBU
College of Science
OFFICE OF THE MATHEMATICS PROGRAM

Webinars on Statistics:
CBMS
COMMUNITY-BASED MONITORING SYSTEM

In celebration of the 31st National Statistics Month (NSM) with the theme
"Bridging Digital Gaps: Making Information Available to All"
03 NOVEMBER 2020 | 9AM-12NN

Resource Speakers:
MR. PATRICIA ANNE R. SAN BUENAVENTURA
Head of Office, Office of the Mathematics Program
Page: Patricia San Buenaventura

MR. NINO E. TUASON
Head of Office, Office of the Mathematics Program
Page: Nino Tuason

Training-Webinars on SURVEY SAMPLING

SPEAKERS
Basic Concepts of Survey Sampling using R
DR. MICHAEL D. LUCAGBO
Associate Professor, School of Statistics

Milestones and Advances in Survey Sampling
DR. MICHAEL D. LUCAGBO
Associate Professor, School of Statistics

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On the Conduct of the Webinar

Table 6. Frequency Count of Participants of the Eleven Webinars Conducted

	LGA	LGU	SUC/ HEI	Private Entity	Total
Longitudinal Data Analysis and Missing Data	42	2	165	12	221
Spatial Point Patterns with R Application	41	2	119	6	168
Milestones and Advances in Survey Sampling	21	0	99	2	122
Basic Concept of Survey Sampling Using R	20	0	95	4	119
Principal Component Analysis	15	1	55	4	75
Spatial Analysis of Area Data	9	0	41	23	73
High Dimensional Data	11	0	54	5	70
Bayesian Analysis	12	1	51	6	70
Bootstrap Models with Applications	12	0	41	2	55
Community-Based Monitoring System	29	2	22	1	54
Cointegration Models	2	0	37	1	40

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On the Conduct of the Webinar

Table 7. Overall Assessment (in frequency) of the Webinars

	O	VS	S	F	P	Total
Longitudinal Data Analysis and Missing Data	194	23	2	0	2	221
Spatial Point Patterns with R Application	150	18	0	0	0	168
Milestones and Advances in Survey Sampling	93	25	1	0	3	122
Basic Concept of Survey Sampling Using R	93	22	1	0	3	119
Principal Component Analysis	0	68	7	0	0	75
High Dimensional Data	0	58	12	0	0	70
Bayesian Analysis	0	67	3	0	0	70
Bootstrap Models with Applications	48	6	1	0	0	55
Community-Based Monitoring System	0	43	11	0	0	54
Cointegration Models	36	4	0	0	0	40
Spatial Analysis of Area Data						

O – Outstanding

VS – Very Satisfactory

S – Satisfactory

F – Fair

P – Poor

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Basic Concept of Survey Sampling Using R	93	22	1	0	3	119
Principal Component Analysis	0	68	7	0	0	75
High Dimensional Data	0	58	12	0	0	70
Bayesian Analysis	0	67	3	0	0	70
Bootstrap Models with Applications	48	6	1	0	0	55
Community-Based Monitoring System	0	43	11	0	0	54
Cointegration Models	36	4	0	0	0	40
Spatial Analysis of Area Data						

O – Outstanding

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On the Conduct of the Webinar

- The target population for the webinar and the webinar's objectives need to be mentioned in the promotions and invitation links.
- The organizations conducting the webinars should avoid repetition of topics and overlap.
- Webinars need to be more interactive.
 - add questions and answer sessions to the webinar that are dispersed strategically throughout the webinar, rather than only at the end
- Social media platforms such as Facebook may be used to extend the interaction beyond the webinars.



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Success of the UP Cebu Statistics Webinars

It is carried out with highly competent and knowledgeable resource trainers.



Source: <https://depositphotos.com/>

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Success of the UP Cebu Statistics Webinars



Source: <https://dryicons.com/>

The resource speakers highly encouraged the participants to ask questions right away using the chat facility in Zoom or open their web camera and ask, or virtually raised their hand thereby getting immediate feedback from asking.



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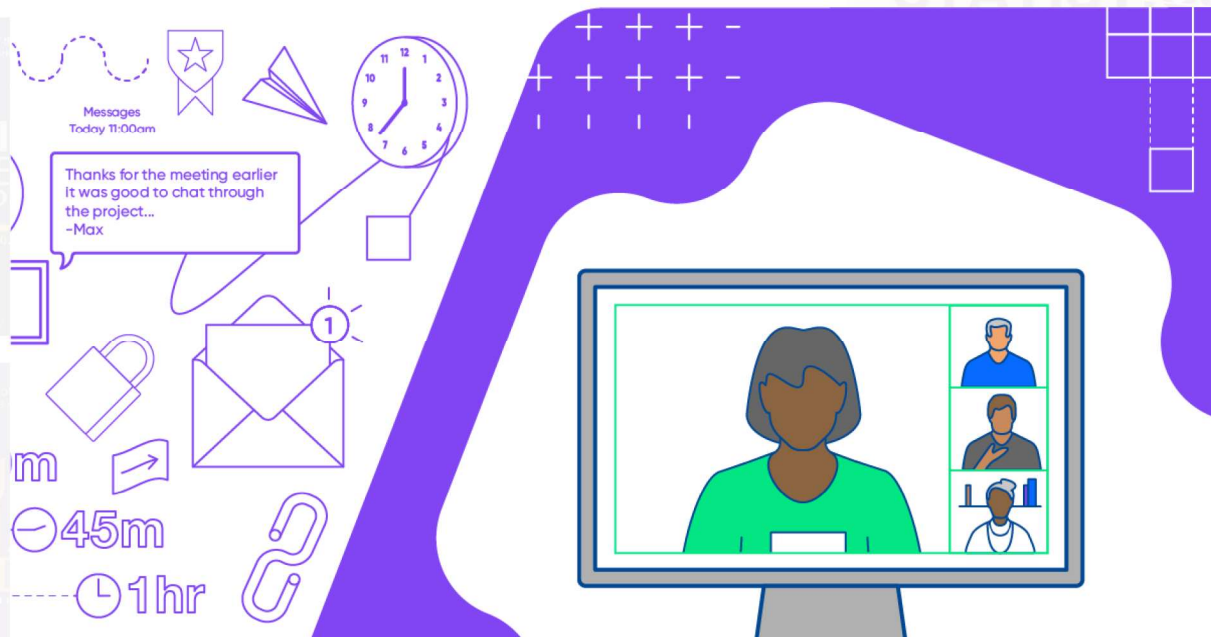
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Success of the UP Cebu Statistics Webinars

The use of embedded functionalities of a virtual platform such as file sharing, showing annotations, providing links to web resources, showing means of recording, screen sharing, video sharing, and polling were attention-getting.



Source: <https://calendly.com/>

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Success of the UP Cebu Statistics Webinars



Recordings of the webinar for future use and played live on Facebook which can be viewed later at their vacant/convenient time have extended the capacity to develop more audience.

Source: <https://www.iconfinder.com/>

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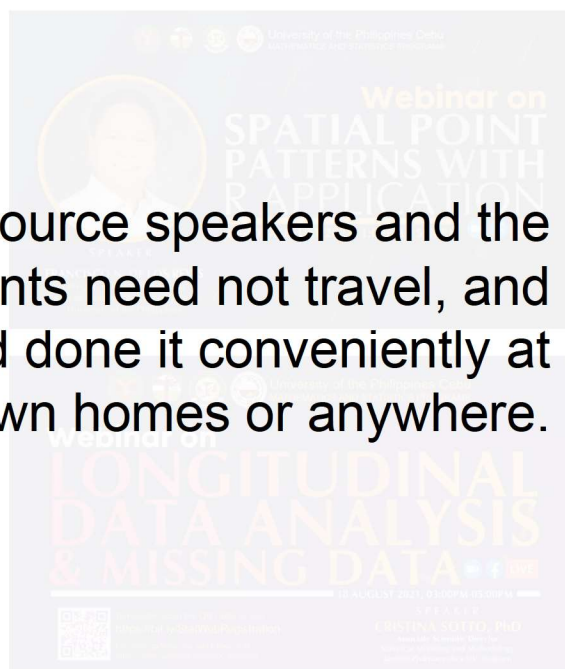
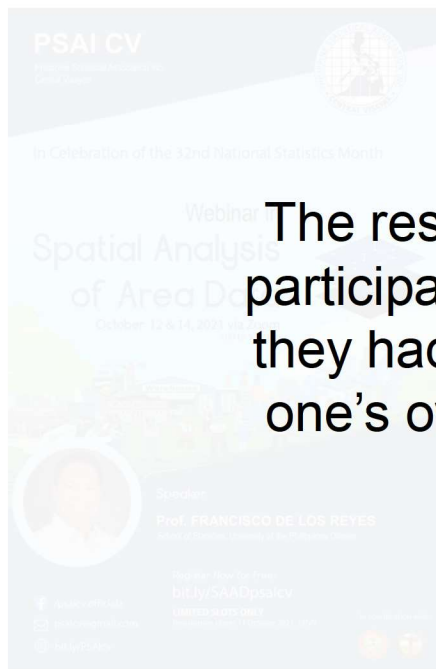
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Success of the UP Cebu Statistics Webinars

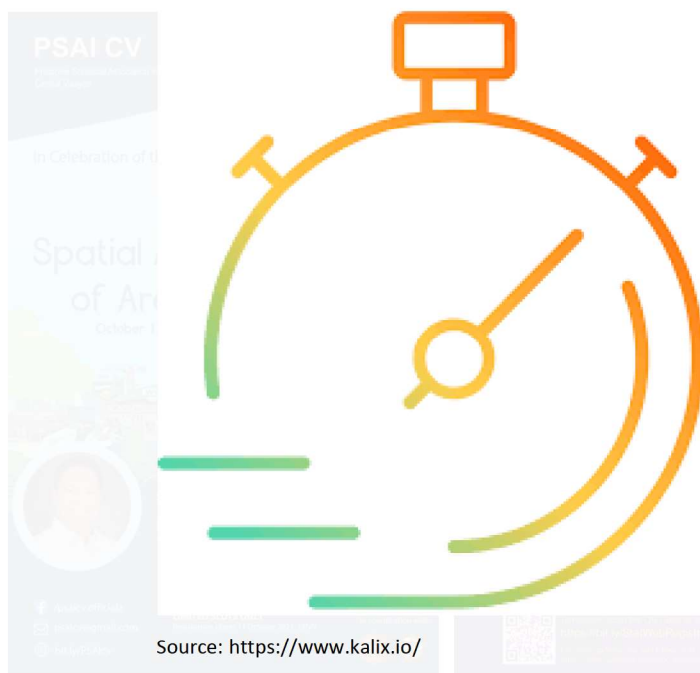
The resource speakers and the participants need not travel, and they had done it conveniently at one's own homes or anywhere.



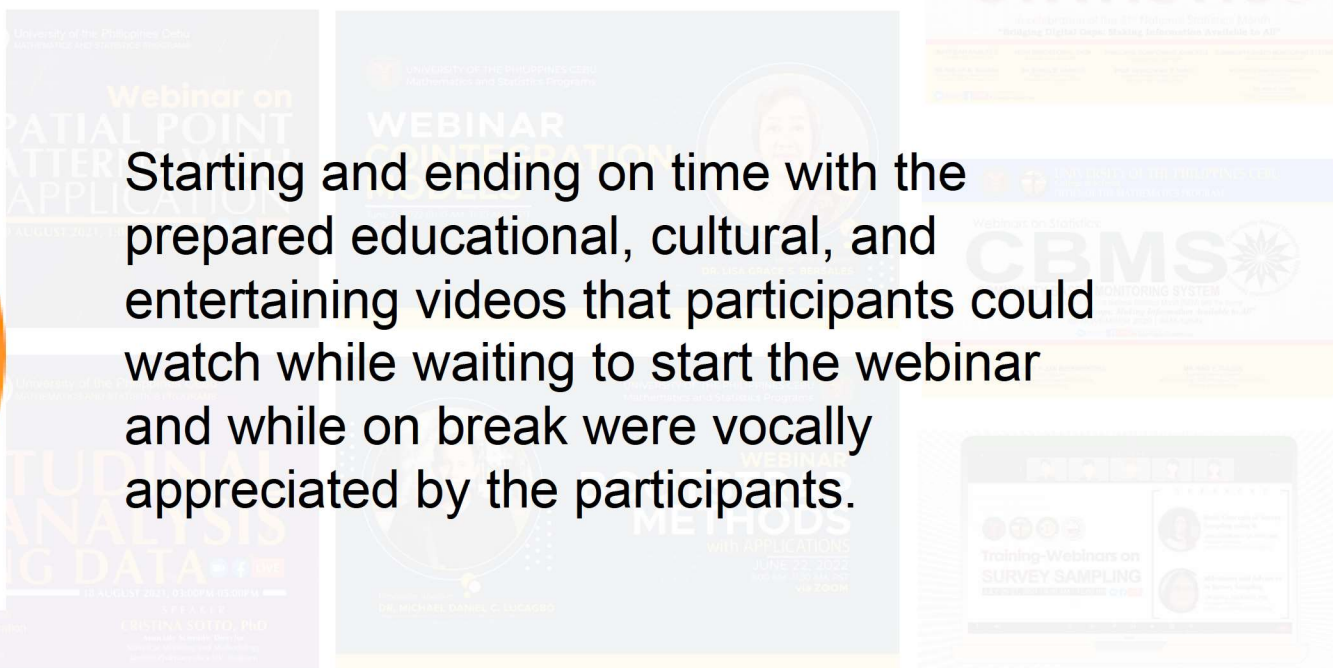
Source: <https://iconscout.com/>

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Success of the UP Cebu Statistics Webinars



Starting and ending on time with the prepared educational, cultural, and entertaining videos that participants could watch while waiting to start the webinar and while on break were vocally appreciated by the participants.





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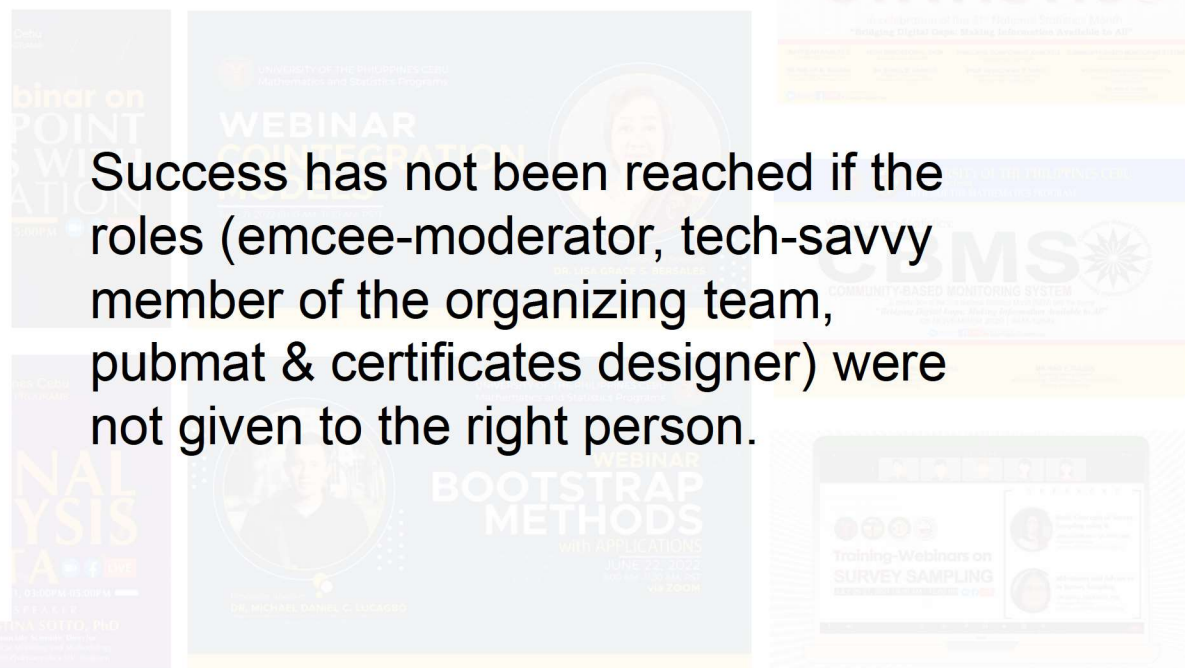
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Success of the UP Cebu Statistics Webinars



Success has not been reached if the roles (emcee-moderator, tech-savvy member of the organizing team, pubmat & certificates designer) were not given to the right person.



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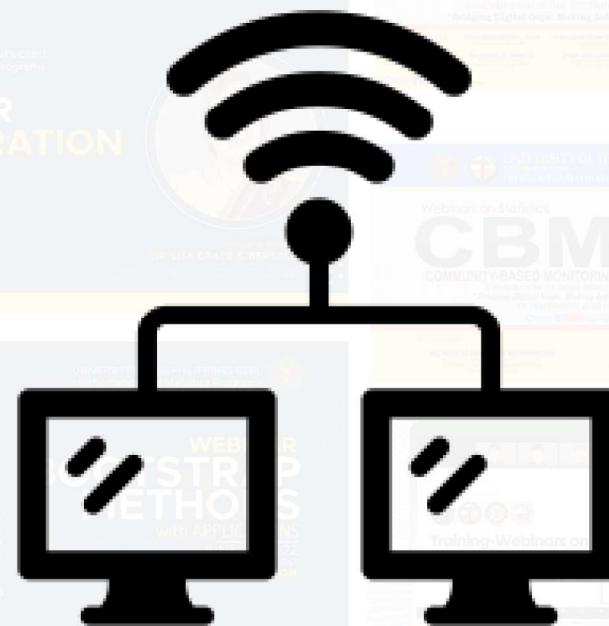
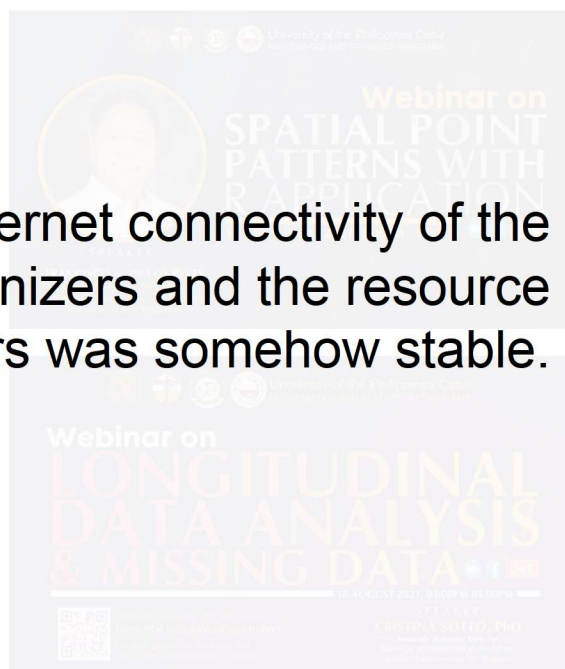
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Success of the UP Cebu Statistics Webinars

Internet connectivity of the
organizers and the resource
speakers was somehow stable.



Source: <https://thenounproject.com/>

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Success of the UP Cebu Statistics Webinars



Source: <https://uxwing.com/>

Personal
invitations
through email
or Messenger

Invite those that
have background
knowledge on the
topics that they will
attend



Source: <https://www.pngall.com/>



Source: <https://www.passportusa.com/>

No registration
fees were
collected

Webinars were
conducted for a
short time

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Success of the UP Cebu Statistics Webinars

Certificate of attendance/participation, and the slide presentations and other materials used by the resource person that motivated the participants to attend the webinars were obtained after the completion of the evaluation which took few moments only.



Evaluation



Name & Email



Certificate Generated



Certificate & Materials
Sent via Email

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Conclusion

In all of such requirements, the training initiatives undertaken by UP Cebu through online and webinars were viewed by the participants as highly successful with their assessment rating range of Very Satisfactory to Outstanding; thus, indicating the effectiveness of online training and webinars at their appropriate time of platform of implementation.

Recommendation

In view of the findings and conclusions of the study, the following recommendations are offered:

- 1) where online pieces of training may not work effectively as intended, webinars as a delivery platform may be used as an effective option;
- 2) where there are limitations in sustaining the required duration of time in pieces of training, that technology be developed and made available for users to offset such limitations;
- 3) where there are concerns on supervision of hands-on activities required among participants, an appropriate technology tool on supervision be developed and utilized;
- 4) where low participation was observed from LGUs and private entities, appropriate steps be undertaken by proper authorities to encourage better participation from their sectors; and
- 5) observing similar quality requirements for effective training, that the initiatives of UP Cebu be replicated by other capable skills training providers.



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Thank you!



<http://www.psa.gov.ph/ncs>



<http://openstat.psa.gov.ph>



<https://twitter.com/PSAgovph>



<https://www.facebook.com/PhilippineStatisticsAuthority>